APPENDIX B

PREVIOUS ENVIRONMENTAL REPORTS

AVT ENTERPRISES
ENGINEERS & CONSULTANTS (718) 921-0430

Phase I Environmental Assessment
for
475 Bay Street, AKA Block 488 Lot 9
Staten Island, New York 10304
Inspection 20011005

Prepared by:

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AVT ENTERPRISES

ENGINEERS & CONSULTANTS (718) 921-0430

Executive Summary

January 12, 2000

On January 6, 2000, AVT Enterprises initiated a Phase I Environmental Site Assessment at 475 Bay Street in Staten Island, New York. The work was done at the request of Mervin Rampaul a prospective buyer for the property.

AVT conducts their Phase One Assessments in accordance with recommendations of the ASTM Practice E 1527-97.

Site inspection was conducted on January 6, 2000 by Mr. Joseph A. Pasaturo of AVT. He was met at the property and accompanied by Mr. Rampaul, the properties prospective buyer, areas inspected included:

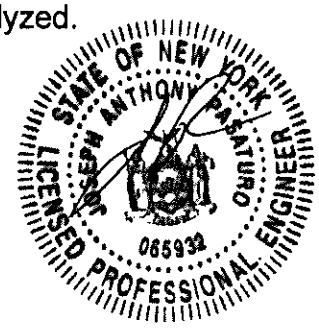
- The entire fenced in area of the property

Findings:

The history of the subject property on the 1934 Sanborn map shows the subject property as the Chas F. McAteer Inc. Coal Yard. The map also indicates a filling station with tanks and pumps on the yard whose fate is unknown. Adjoining properties and proximate sites also show a history of industrial use. The uses predate any regulatory controls and represent sources of possible contamination.

Recommendations:

The property should be first surveyed with a magnetometer to locate any buried tanks or similar anomalies (i.e. buried drums, conduits, or drywells). In addition, sufficient soil borings down to a depth of about 20 feet should be taken and analyzed with a Photo-Ionization Detector (PID). Composites of the various samples can be made and should be submitted for laboratory analysis for Priority Pollutants+40 (PP+40), Total Petroleum Hydrocarbons (TPH) and PCBs'. If the water table is encountered then aqueous samples should be taken and also analyzed.



Joseph A. Pasaturo PE
President & Chief Engineer
AVT Enterprises

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1. Introduction

1.1. Purpose

Provide Phase I Environmental Site Assessment (ESA) for a client to satisfy the requirement for "appropriate inquiry" to qualify for the innocent landowner defense to CERCLA liability. The ESA seeks to determine if there is cause for environmental concern over liability or contamination from past or current activity. The ESA is performed to identify Recognized Environmental Conditions (REC). The term Recognized Environmental Condition means the presence or likely presence of any hazardous substances or petroleum products on a property, under conditions that indicate an existing release, a past release or material threat of a release of any hazardous substance or petroleum products into structures on the property, into the ground, groundwater or surface water on the property. The term is not intended to include de minims conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be subject of an enforcement action if brought to the attention of the appropriate governmental agencies. The survey is performed voluntarily (not in response to regulatory inquiry) and consists of historical research, permitting and violations inquiry, and site reconnaissance. Appropriate documents will be examined at least back to January 1, 1940 where possible and appropriate as defined by ASTM E 1527-97.

1.2. Limitations and Exceptions of Assessment

ESA does not attempt to quantify contamination or to design remediation. Sampling may be recommended as ***addenda*** to the ESA if materials or processes currently or previously related to the site indicate need for further investigation. Contamination to and from proximate areas is also an issue addressed in this report. Extensive sampling is *not* within the scope of work although cursory sampling may be included if requested and approved by the client and provider of this report. Non-scope items as defined by ASTM E 1527-97 while possibly mentioned and discussed as additional information are not covered by this report as they are not required to satisfy the innocent landowner defense requirements to CERCLA liability. These substances which may be present on the property in quantities that may lead to contamination of the property or of nearby properties but are not included in CERCLA's definition of hazardous substances or do not otherwise present potential CERCLA liability. In general this ESA is valid for a period of six months of the date of this report and should not be relied upon beyond that period without consultation and follow up with AVT Enterprises.

1.3. Limiting Conditions and Statement of Limitations of Liability

Processes involved in preliminary site assessments include a collection of documentation in the public domain and information derived from personal interviews. No further warranty is made regarding the accuracy of these sources. AVT performed investigations and assessments using accepted trade practices. All information has been presented with full disclosure exercising best efforts to ascertain past, present and future risks of environmental contamination and liability within the scope of "appropriate inquiry" and "reasonably ascertainable" within the time allowed for delivery of the report by the client. The time frame stated by the client for delivery of this report was 3 weeks. No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. Performance of this practice is intended to reduce, but not to eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property. The ESA recognizes reasonable limits of time and cost.

This report was prepared solely for the use of the client stated in the report. Reliance of this report by anyone other than the stated client is prohibited without the express written consent of duly authorized representatives of AVT Enterprises.

It is understood and agreed that AVT Enterprises is not an insurer and that the ESA and report are not intended to be construed as a guarantee or warranty expressed or implied that the subject property is completely free of hazardous substances or other materials or conditions that could subject the client to potential liability. The presence or absence of any such condition can only be confirmed through the collection and analysis of soil and groundwater samples, as well as testing relevant materials for various suspect contaminants. This testing is beyond the scope of this investigation. In the event that the AVT Enterprises and or its agents are found liable due to breach of contract, breach of warranty, negligence, negligent misrepresentation, negligent hiring or any other theory of liability, then the liability of AVT Enterprises and its agents and employees shall be limited to a sum equal to the fee paid to AVT Enterprises for the ESA.

2. Site Description

2.1. Location and Legal Descriptions

Geographic location	The property is located approximately at the intersection of N40.6303 and W74.0777	
Site Address	475 Bay Street Staten Island, New York 10304	
Block and Lot	Block 488 Lot 9	

2.2. Site and Vicinity Characteristics

This property is in an urban area with relatively little vegetation. The property is set in a mixed industrial and commercial neighborhood with some scattered housing. The property is basically rectangular. It is approximately 275 feet deep by 180 feet wide. It is on the East side of Bay Street, between William Street and Wave Street in the borough of Staten Island.

2.3. Descriptions of Structures, Roads and Other On-Site Improvements

The property is a vacant lot covered with an asphalt black top which is highly damaged. There are no structures located on the property and it is surrounded by a chain link fence on three sides. The front of the property is open to the street.

The City of New York supplies water and sewer services to the property. Con Edison supplies electric service and Brooklyn Union supplies gas. There are currently no active utility services on the property.

2.4. Current Use of Property

The property is currently vacant. Anecdotal information indicates that one of its prior uses was as a lot to store new cars for a local dealership.

2.5. Current Use of Adjoining Properties

The proximate buildings are light industrial and commercial.

Adjoining North:	Commercial mixed use building (Dry cleaners, Window manufacturer, Water craft dealer)
Adjoining South:	Auto repair shop and a McDonald's Restaurant
Adjoining East:	Train tracks (Staten Island Rapid Transit)
Adjoining West:	Bay Street (Plumbing supply across Street)

2.6. Site Geology, Hydrology and Topography

The subject property is approximately 25 feet above sea level. Surrounding areas pitch down to the East.

3 Site History

3.1. City Directory and Municipal Document Review

A NYC Building Department Property Profile Overview shows no open violation on the subject property. City Directories were reviewed within the scope of this report and are not specific for the subject property. Surrounding properties are a mix of non-specific commercial and industrial businesses.

3.2. Sanborn Fire Insurance Map Review

This historical map series dates back to the late 1800s and is still in business. The company began as a fire insurance resource, mapping structures and prominent property features. The maps have been periodically updated so as to provide a picture of historical evolution for an area or a specific property.

The series for 255 47th Street includes maps from 1898, 1937 1950, 1977, 1981, 1991 to 1996.

The 1898 map shows the subject property as the James Thompson and Sons Lumber Yard. Surrounding properties are primarily commercial and industrial properties. The G. Barth Coal Yard is adjoining the subject property to the East.

The 1937 maps shows the area significantly more developed. The subject property is now the Chas F. McAteer Inc. Coal Yard. Surrounding properties are primarily industrial with a commercial laundry facility adjoining the property to the North & lumber yard and car painting shop adjoining the property to the South.

The 1950 map shows the subject property as the J.T. Montesani Sand and Gravel Co. Very little change has taken place to the surrounding properties.

The maps from 1977 and on show the subject property as it is today, vacant. The are indications that a local car dealer was storing cars on the property. Surrounding properties are still a mix or commercial and industrial uses.

3.3. Past Use of Adjoining Properties

According to the Sanborn Maps and anecdotal information the surrounding properties have historically, industrial and commercial facilities. Several of the prior uses have can present recognized environmental conditions.

4. Records Review

4.1. Federal and State Database Review

Environmental Impact Area Map and Statistical Profile:

The Environmental Impact Area Maps, supplied by EDR show the area studied within varied radii of the target site, depending on the hazard being investigated. The maps show properties in the studied area that have been found in any of the federal data bases searched. Copies of the maps are included in the Reference Section.

National Priorities List (NPL):

The NPL, also known as the Superfund List, is an EPA listing of uncontrolled or abandoned hazardous waste sites. The list is primarily based on a score that the site receives from the EPA's Hazardous Ranking System. These sites are targeted for possible long-term remedial action under the Superfund Act. **No sites are identified within the target radius**.

Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS):

The CERCLIS list is a compilation by the EPA, of known or suspect uncontrolled or abandoned hazardous waste sites, which the EPA has investigated, or is currently investigating for release or threatened release of hazardous substances pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (Superfund Act). Once a site enters CERCLIS, it may be subjected to several levels of review and evaluation, and ultimately placed on the NPL. While the EPA has determined that some CERCLIS sites require no action, others could well pose a real or perceived environmental threat to neighboring properties, thus impacting their value. **No sites or conditions were identified that would currently impact the subject property.**

State Hazardous Waste Sites are the State equivalent of CERCLIS and may or may not list site identified by the CERCLIS system. Data is reported by the New York State Department of Environmental Conservation. **No sites or conditions were identified that would currently impact the subject property.**

Toxic Release Inventory (TRI):

The TRI contains information on the annual estimated release of toxic chemicals to the environment by a certain property. This includes the maximum amount stored on site, the estimated quantity emitted into the air, discharged into bodies of water, injected underground, or released to land; methods used in waste treatment, and data on the transfer of chemicals off-site. **No sites or conditions were identified within the target radius that would currently impact the subject property.**

Resource Conservation and Recovery Act (RCRA):

The EPA's RCRA Database identifies and tracks hazardous waste from the point of generation to the point of disposal. Sites listed in the RCRA Database are those which comply with the regulations stipulated in the Resource Conservation and Recovery Act. The Non-Compliance RCRA Database is a list of those sites that have failed to file notification forms with the EPA in accordance with RCRA regarding the generation, storage, transportation, treatment, or disposal of hazardous waste. **Eight sites were identified within the 1/4 mile radius. There is a commercial dry cleaning plant adjoining the subject property.**

Emergency Response Notification System (ERNS):

The Emergency Response Notification system (ERNS) is a national computer database and retrieval system used to store information on the release of oil and hazardous substances. ERNS consists of release notifications submitted to the National Response Center, of the US Coast Guard, since 1987. The information it provides includes reported discharges, date of release, material releases, causes of releases, damage or injuries involved, quantity released, source of release, incident location, response actions taken, authorities notified, and affected environmental medium. **No sites or conditions were identified within the target radius that would currently impact the subject property.**

Nuclear Facilities (NuFac.):

Contains the facility name, location and county location in the state. **No sites or conditions were identified within the target radius that would currently impact the subject property.**

Open Dumps (OD):

Any facility or site where solid waste is disposed of, which is not a sanitary landfill that meets the criteria for classification of a Solid Waste Disposal Facility. Listed sites are not facilities for disposal of hazardous waste. **No sites or conditions were identified within the target radius that would currently impact the subject property.**

Chemical and Petroleum Bulk Storage (PBS):

The NYS DEC and local fire department records are searched for any evidence of prior or current bulk storage tanks. This includes all tanks of any capacity regulated by the fire department. In addition, the database that contains reported Leaking Underground Storage Tanks (LUST) is searched. **Twenty five sites have reported leaking underground tanks within a ½ mile radius of the subject property. Three of the sites are located within 1/8 of a mile. The identified sites or conditions should not be an impact on the subject property.**

Landfills (LF):

Disposal facilities where potentially hazardous substances are stored or treated. **No sites or conditions were identified within the target radius that would currently impact the subject property.**

Hazardous Substance Waste Disposal Site Inventory (HSWDS):

The HSWDS Inventory includes any known or suspected hazardous substance waste disposal sites. Included also are sites de-listed from the registry and non-registered sites which the U.S. EPA Preliminary Assessment reports or site investigation reports are being prepared. **There is one site located within a ½ mile of the subject property. The site should not impact the subject property.**

Regulatory Permitting and Violations Abstract (Federal and State)

	Target Site	Adjacent Sites	Neighboring Sites
NPL	None	None	None
CERCLIS	None	None	None
SHWS			None
TRI	None	None	See CER
RCRA	None.	None	2 small sites and 6 large within ¼ mile
ERNS	None	None	None
NuFac.	None	None	None
OD	None	None.	See CER
PBS (UST)	None	None	None >400,000 Gallons
PBS (UST)	None	None	<400,000 Gallons 7 USTs within ¼ mile
PBS (AST)	None		
FINDS			
LF	No	None	None
Spills	See CER		
LUST	None	None	25 sites within ½ mile no soil or water impact to subject prop.
CSF	None	None	None

CER = Computerized Environmental Report (Reference, Section 8).

5. Site Reconnaissance and Interviews

Relevant Inspection Data

Site inspection was performed by Mr. Joseph A. Pasaturo P.E. of AVT Enterprises, on January 6, 2000. He was met at the building and accompanied by, Mr. Mervin Rampaul, the prospective purchaser of the building.

Weather

On the day of the inspection, it was 40 degrees and sunny.

Scope of Inspection

The inspection included a neighborhood assessment, including the use of the surrounding areas and basic geographic features. The grounds were surveyed and site drainage and vegetation inspected.

5.1. Building Interior

The property is completely vacant no buildings are on the subject property.

5.2. Building Exterior

Not applicable

5.3. Hazardous Substance Storage

There were no hazardous materials in evidence at the time of inspection. There were no signs of distressed vegetation or signs of dumping noted on the property.

5.4. Storage Tanks

While no evidence was noted at the site. Sanborn maps indicated that a filling station with possible underground tanks exists on the property. Indications are that the tanks are located at the bay street side of the property. The disposition of the suspected tanks is unknown.

5.5. Indications of PCBs

There were no indications of PCBs. The Staten Island Rapid Transit runs along the rear of the subject property. Equipment used in the past associated with the transit system was known to contain high levels of PCB's. This report cannot quantify or qualify these materials, but are since under strict governmental control. Inquiries can be made to the NYC Transit Authority if so desired.

5.6. Indications of Solid Waste Disposal

None.

5.7. Asbestos Containing Materials

The assessment is limited to observations made on exposed, friable, suspect asbestos-containing materials only and it is possible that asbestos is present behind walls and above ceilings throughout the building. This is noteworthy when considering renovation activities. In addition, non-friable asbestos containing materials (ACM) need to be considered when planning renovation and considering maintenance activities.

Should renovation or demolition be scheduled for the property, a complete asbestos investigation, which should include non-friable materials, will be necessary prior to any work being performed. The Owner may wish to conduct a complete asbestos survey for inclusion into the buildings' Operations and Maintenance Program. Some areas accessed did contain some suspect non-friable ACM in the form of linoleum and floor tiles. An asbestos survey must be performed before any renovations can take place. In addition, other non-friable ACM (see following pages) must be considered when planning renovations and considering maintenance activities.

Some non-friable suspect materials present are:

* Floor tile and tile mastic
* Ceiling Tile
* Plaster walls and ceilings
* Electric wiring
* Roofing Materials
* Mastics
* Transite exterior siding
* Vinyl wall paper
* Fire doors
* Cementitious mortar, block and other products
* Caulks
* Tar wraps

5.8. Lead Based Paint and Other Lead Related Issues

The owner may wish to test painted surfaces for lead content for future reference and incorporation into the building Operations and Maintenance Program. Should the paint need to be sanded, scraped, etc., or be involved in demolition, testing should first be performed to determine lead content.

5.9. Radon

Data provided by the New York State Department of Health indicates that for participating properties, in most areas of Staten Island, the average levels of Radon are below the US EPA Action Level of 4 picocuries/liter.

As in any building on a concrete slab, the sumps, floor drains, cracks and penetrations could allow a seepage of radon gas. This area has a low risk of radon, but periodic testing of radon is advised for any properties housing a significant number of people.

5.10. Physical Setting Analysis

The subject property is in an urban setting with heavy industrial activity. The property is covered with a highly damage asphalt black top.

There are various listed hazardous waste sites and LUST Sites in the area including the Staten Island Home Port. While in close proximity to the subject property none of the sites should impact the subject property. Please see the enclosed database report for site specific information. In addition the Staten Island Rapid Transit runs along the back of the property.

6. Conclusions and Recommendations

We have performed a Phase 1 Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527 of **475 Bay Street, Staten Island, NY.** Exceptions to, or deletions from this practice are described in section 1 of this report. The assessment has revealed no evidence of recognized environmental conditions in connection with the property **except for the following:**

The past and current use of the property and adjacent and neighboring properties is industrial and commercial.

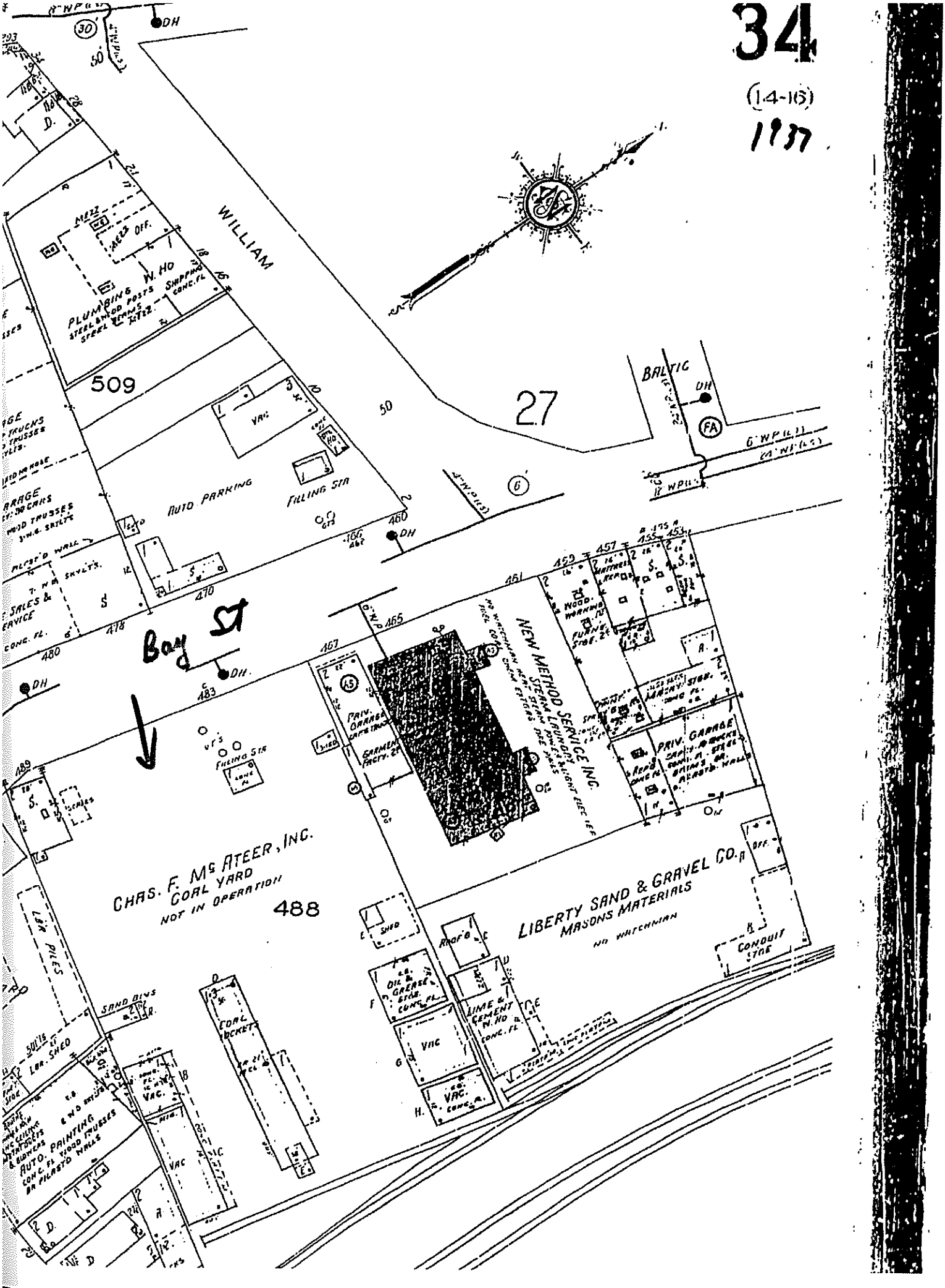
⊗ The history of the subject property on the 1934 Sanborn map shows the subject property as the Chas F. McAteer Inc. Coal Yard. The map also indicates a filling station with tanks and pumps on the yard whose fate is unknown. Adjoining properties and proximate sites also show a history of industrial use. The uses predate any regulatory controls and represent sources of possible contamination.

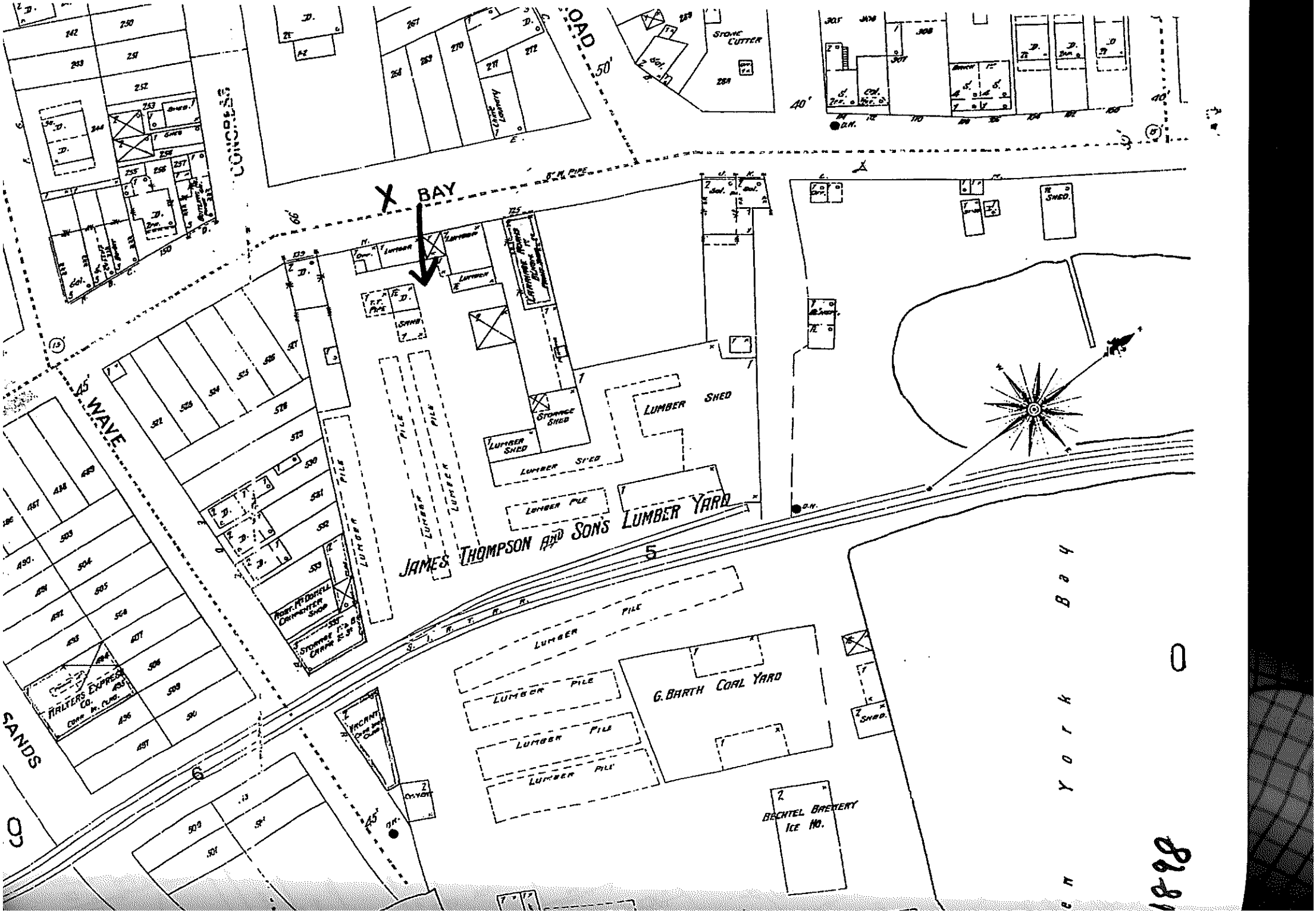
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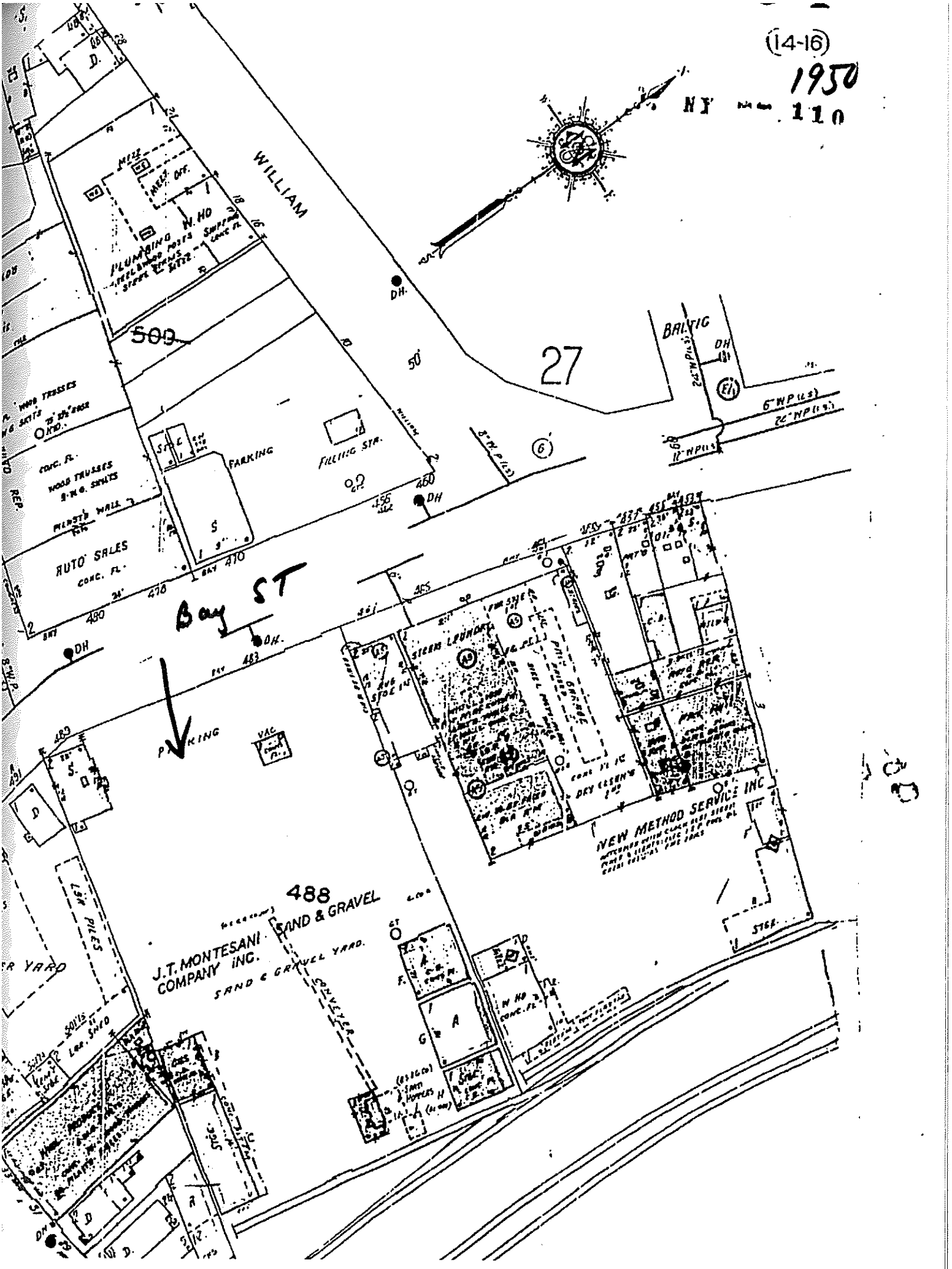
There are neighboring sites that are listed in one or more of the databases searched. A list of properties found in any one database for the studied area can be found in the Reference Section. Several sites are listed as participating in the bulk storage programs or, as generating and transporting hazardous waste. The property is proximate to commercial and multi-housing properties and as such reasonably would be within range of these activities. Several spills of fuel products have been reported within the search radius. The quantities, distances from the subject site and nature of the product would pose minimal risk of migration.

Preliminary Budget

Item	Quantity	Estimated Cost
Soil Analysis for Priority Pollutants+40, TPH and PCB's	20 Borings with 5 composite samples	Approx. $14000.00
Magnetometer scan of property for possible buried tanks, drums, etc	N/A	Approx. $2500.00
PID Soil Samples	20	Approx. $1800.00
		Total Approx. $18,300.00


34
(14-16)
1937
WILLIAM
BALTIC
509
27
488
Bay St
PLUMBING & STEEL & WOOD POSTS STEEL TRUSS
AUTO PARKING
FILLING STA
NEW METHOD SERVICE INC.
STEAM LAUNDRY
CHAS. F. McATEER, INC.
COAL YARD
NOT IN OPERATION
LIBERTY SAND & GRAVEL CO.
MASONS MATERIALS
NO WATCHMAN
AUTO. PAINTING
CONC. FL. WOOD TRUSSES
BR. PILASTD WALLS
PRIV. GARAGE
PRIV. GARAGE
SAND BINS
COAL BOCKETS
LIME & CEMENT
CONDUIT STOR
SHED
OIL & GREASE
STEEL
CONC. FL.
VAC.
LBR. SHED
SALES & SERVICE
SALES
SHED
DH
FA
460
461
465
466
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470
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480
483
489
455
457
459


BAY
JAMES THOMPSON AND SONS LUMBER YARD
LUMBER SHED
LUMBER PILE
STORAGE SHED
G. BARTH COAL YARD
BECHTEL BREWERY ICE HO.
WALTERS EXPRESS CO.
ROAD
WAVE
SANDS
York Bay


(14-16)
1950
NY
110
WILLIAM
BALTIC
509
27
Bay ST
AUTO SALES
CONC. FL.
WOOD TRUSSES
S.W.C. SHUTTS
PARKING
FILLING STA.
STEERS LAUNDRY
DRY CLEAN'G
NEW METHOD SERVICE INC
488
J.T. MONTESANI
COMPANY INC.
SAND & GRAVEL
SAND & GRAVEL YARD
PARKING
VAC
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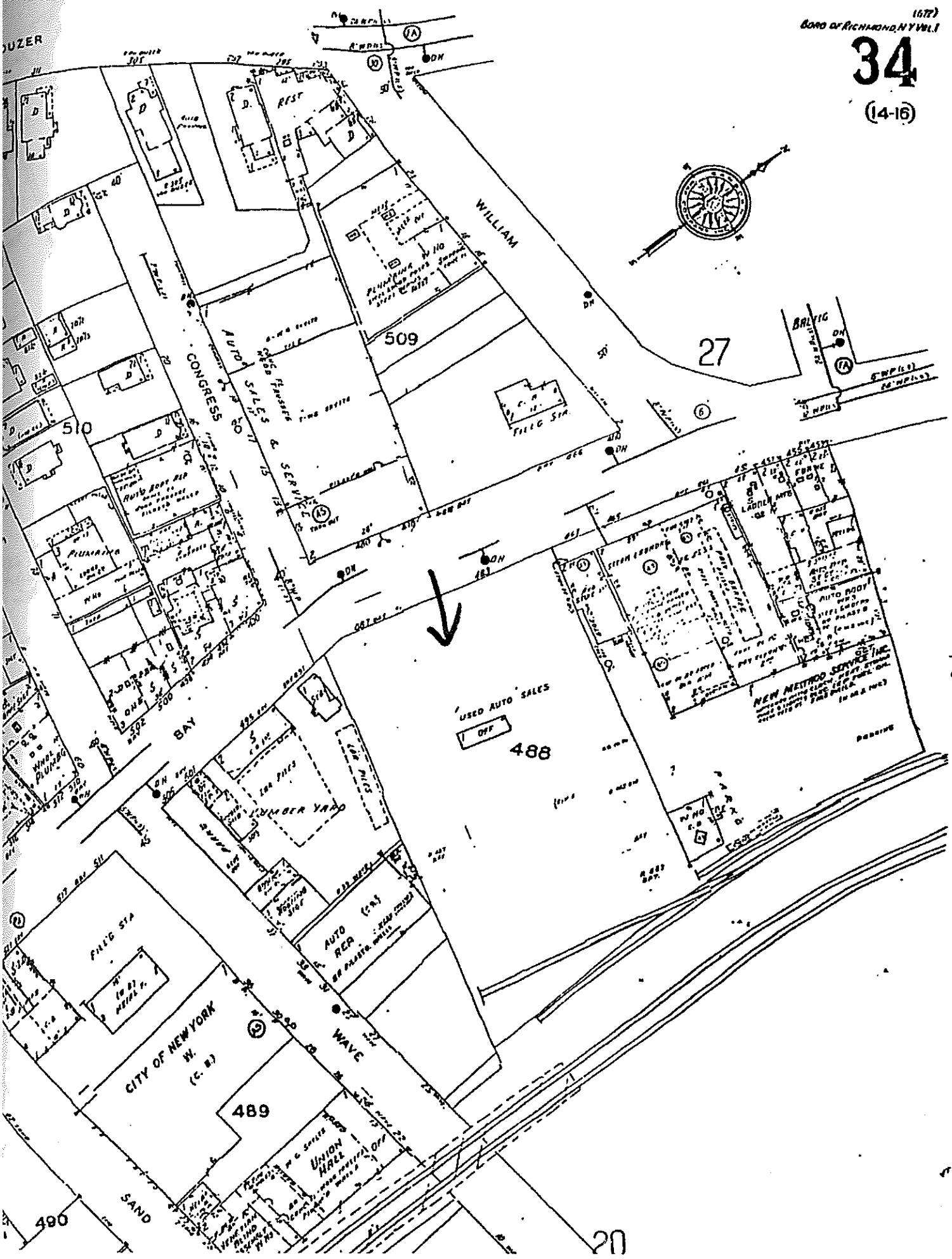
1977

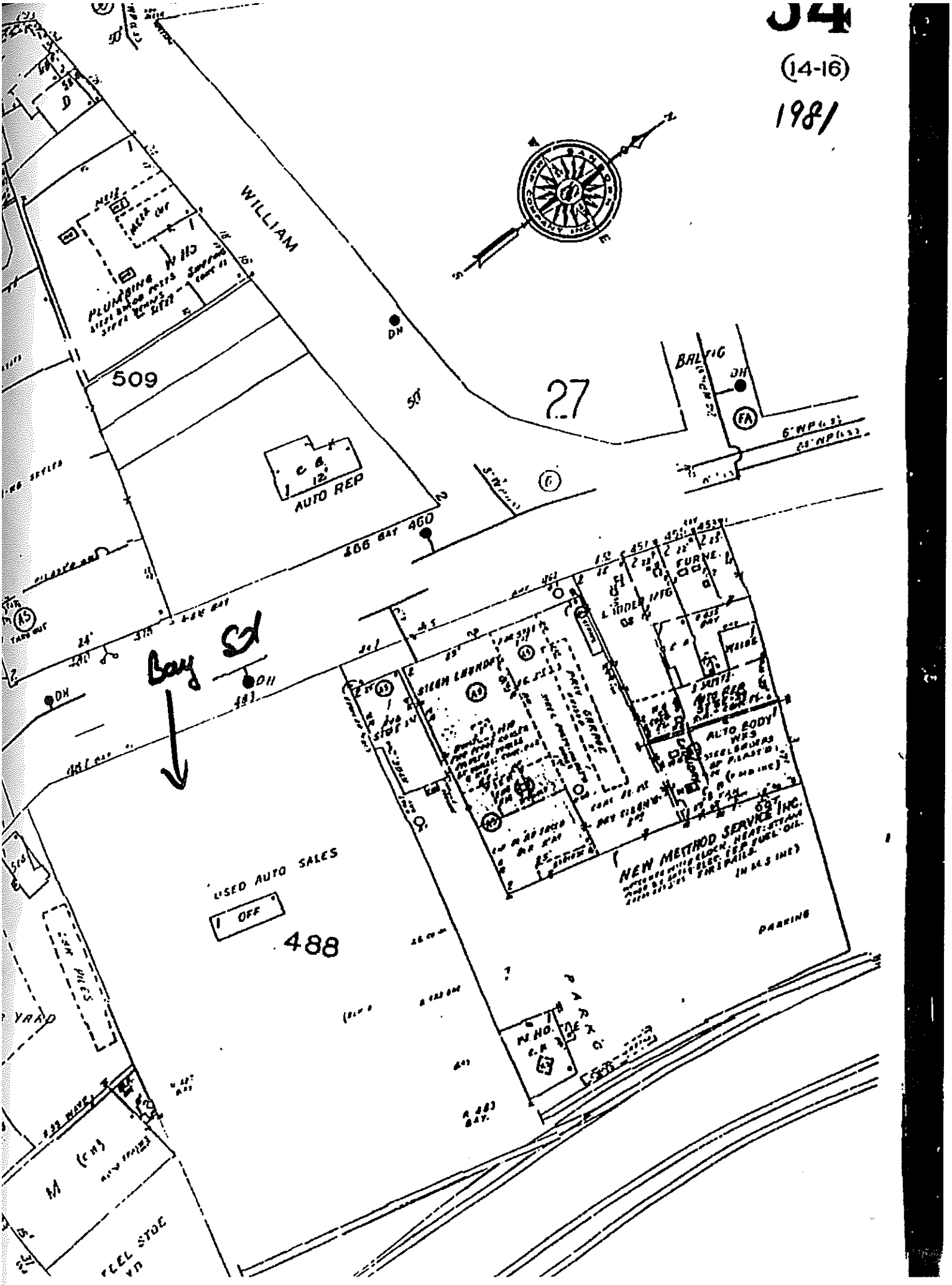
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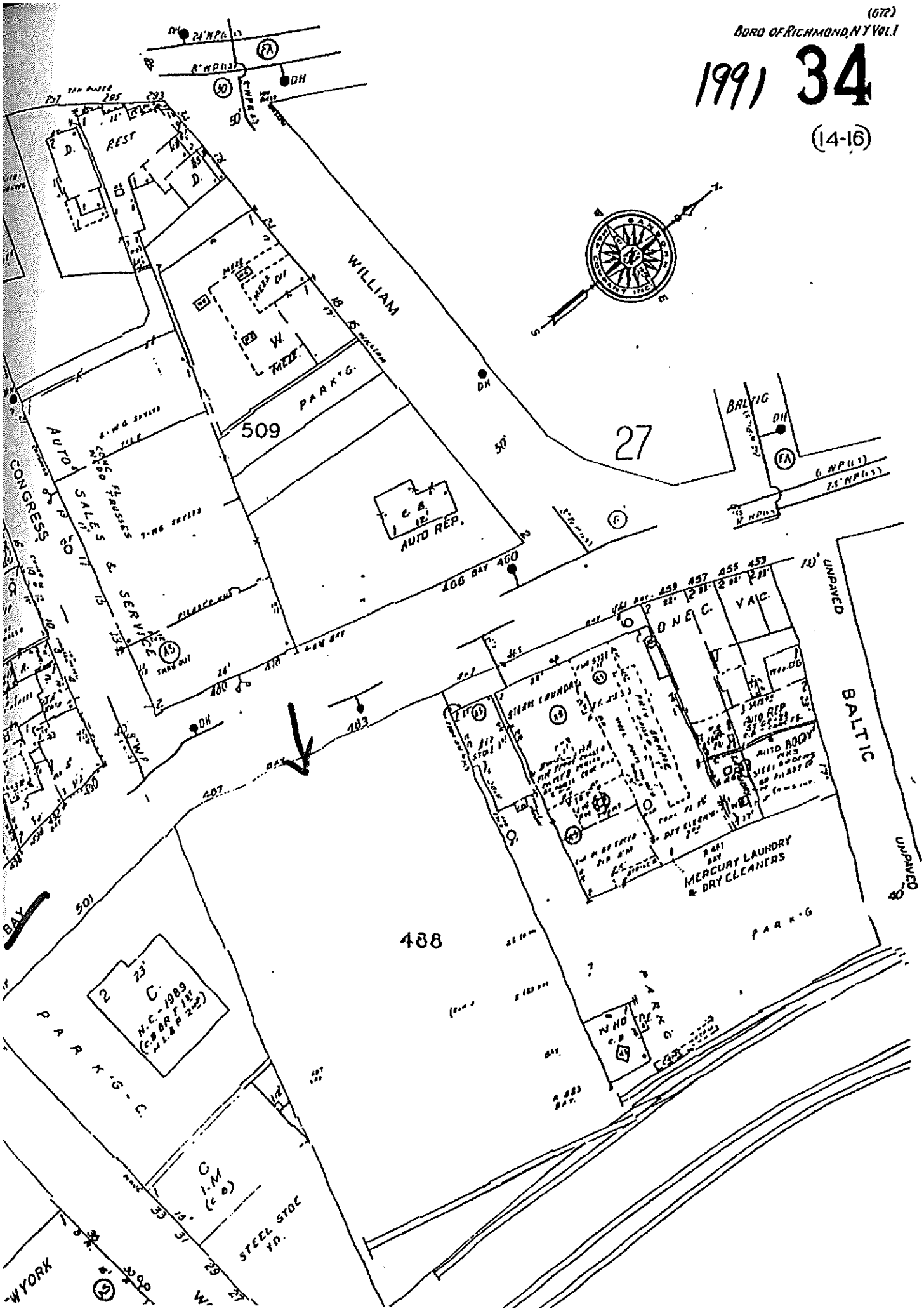
(14-16)




34
(14-16)
1981
WILLIAM
509
AUTO REP
27
BALTIC
Bay St
USED AUTO SALES
1 OFF
488
NEW METHOD SERVICE INC.
AUTO BODY
PARKING

1991 34

(14-16)


WILLIAM
BALTIC
CONGRESS
AUTO SALES & SERVICE
509
27
488
PARK'G
AUTO REP.
STEAM LAUNDRY
AUTO BODY
MERCURY LAUNDRY & DRY CLEANERS
UNPAVED
STEEL STOR YD.
BAY
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453
501

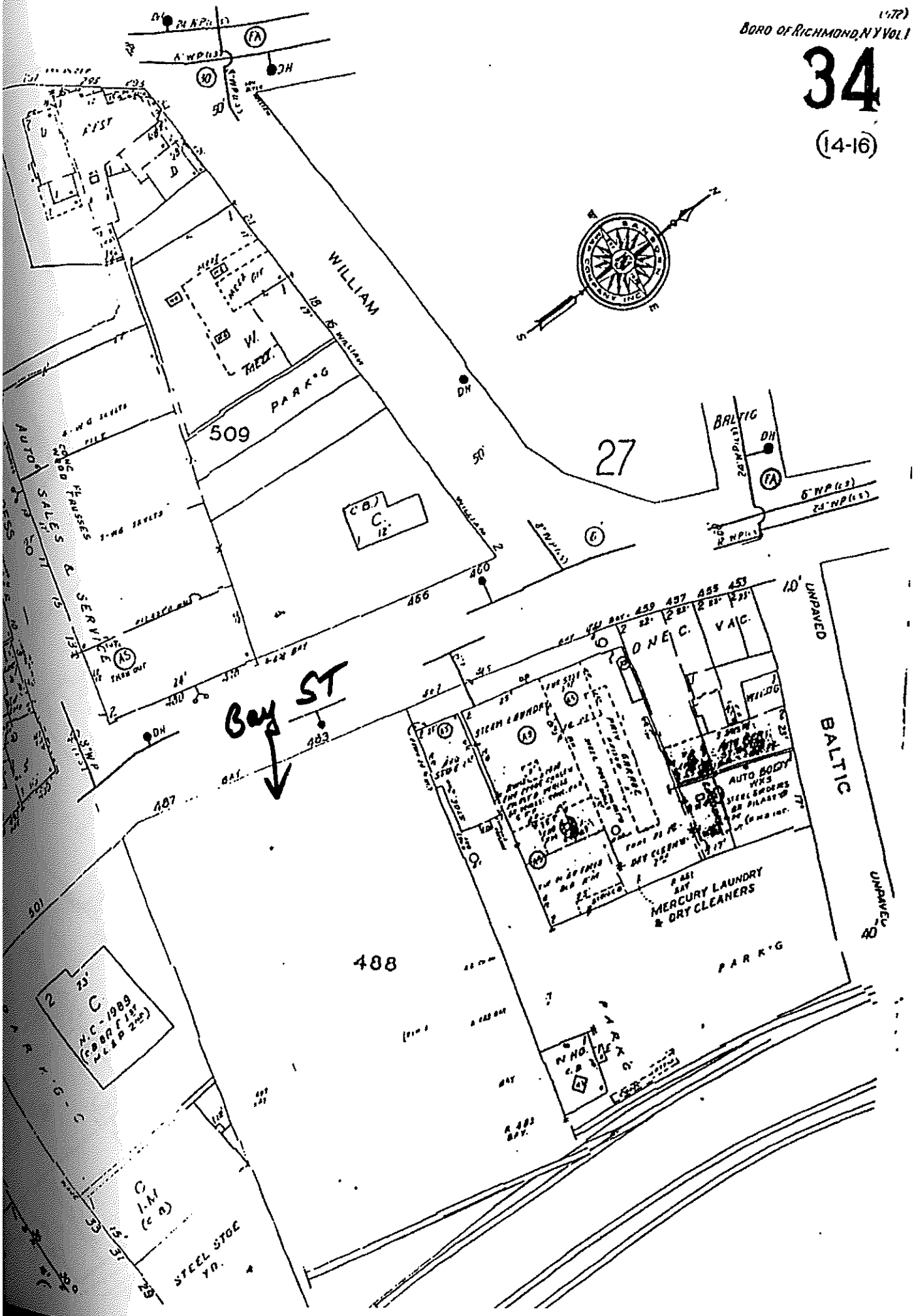
1990

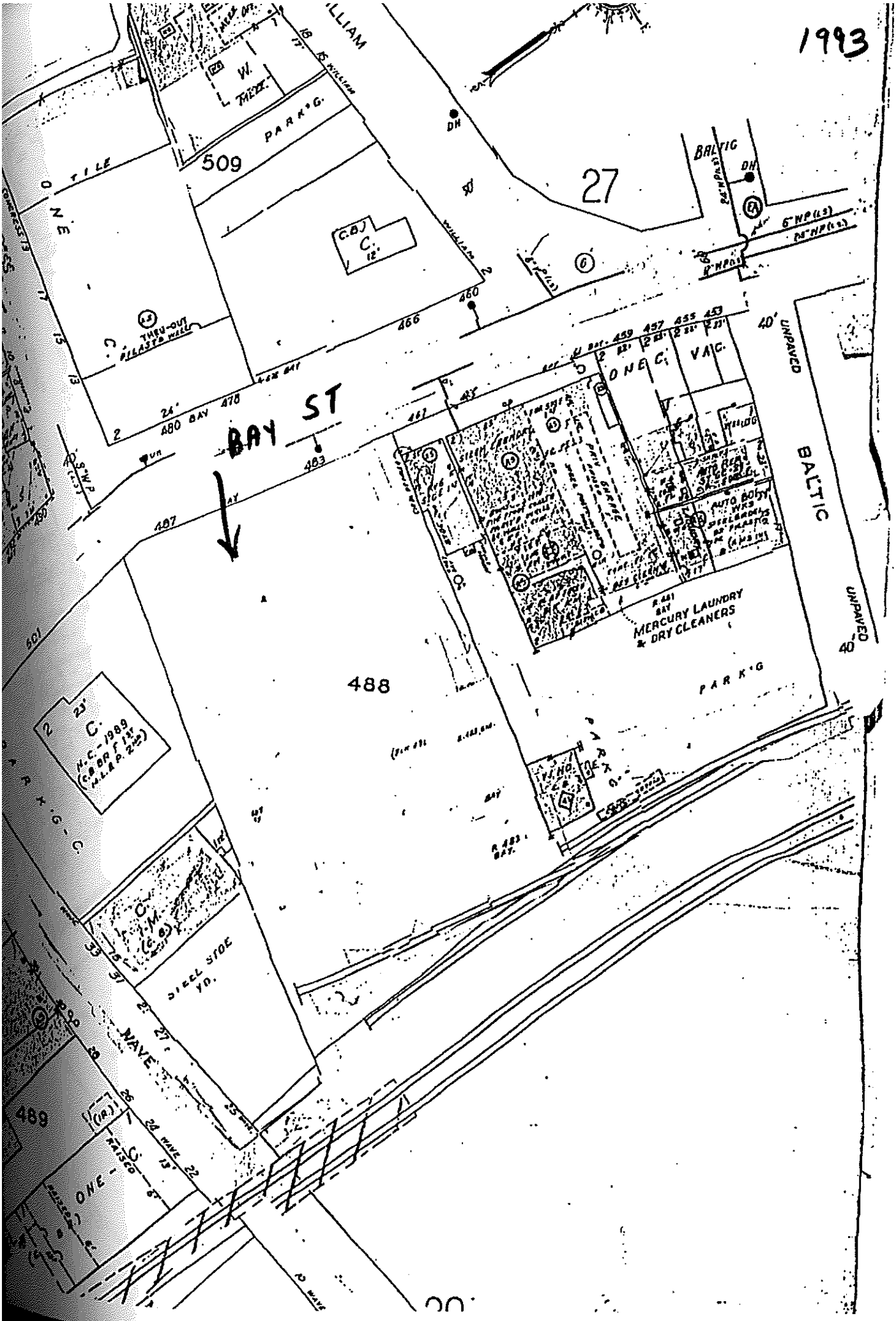
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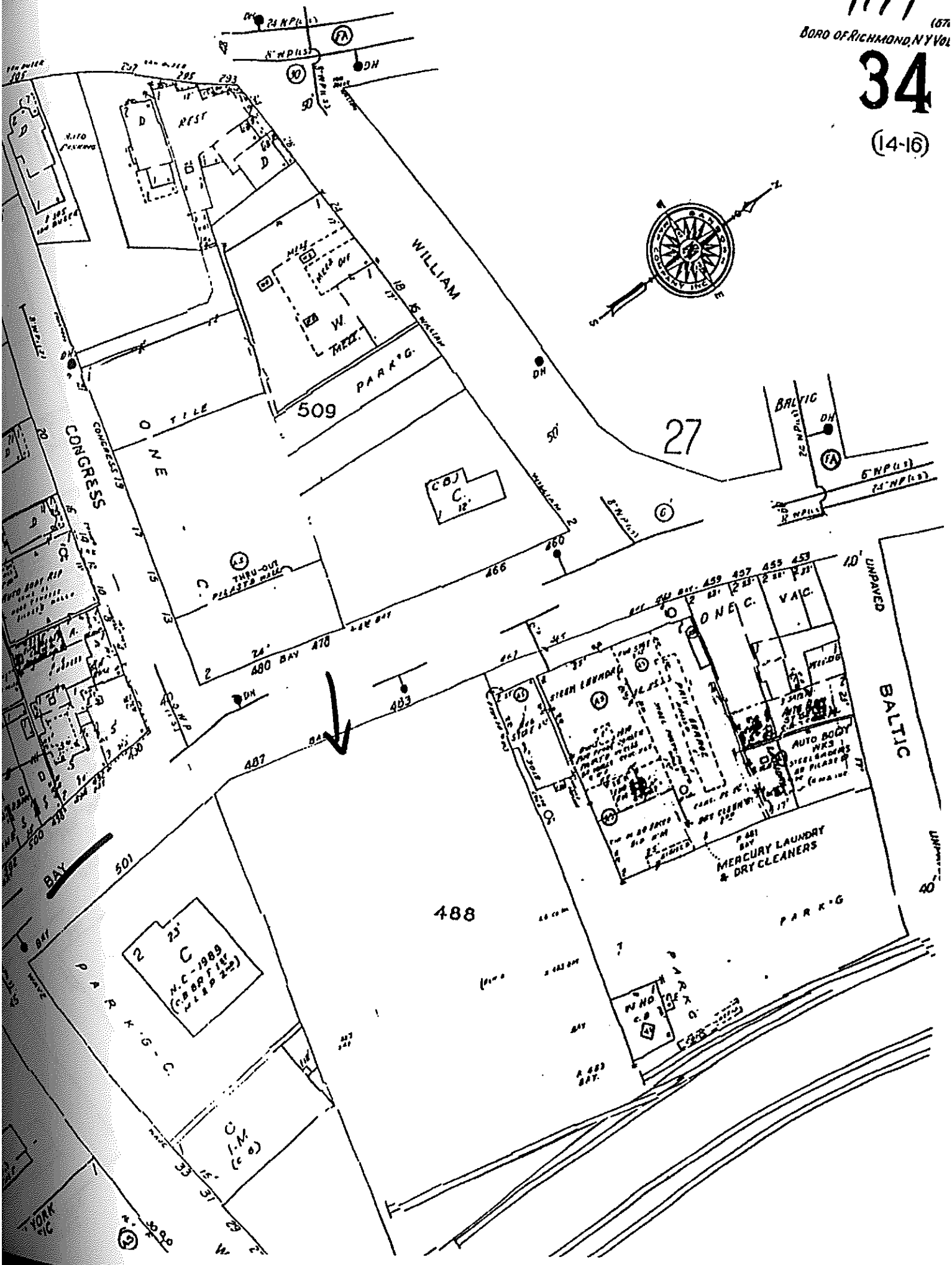
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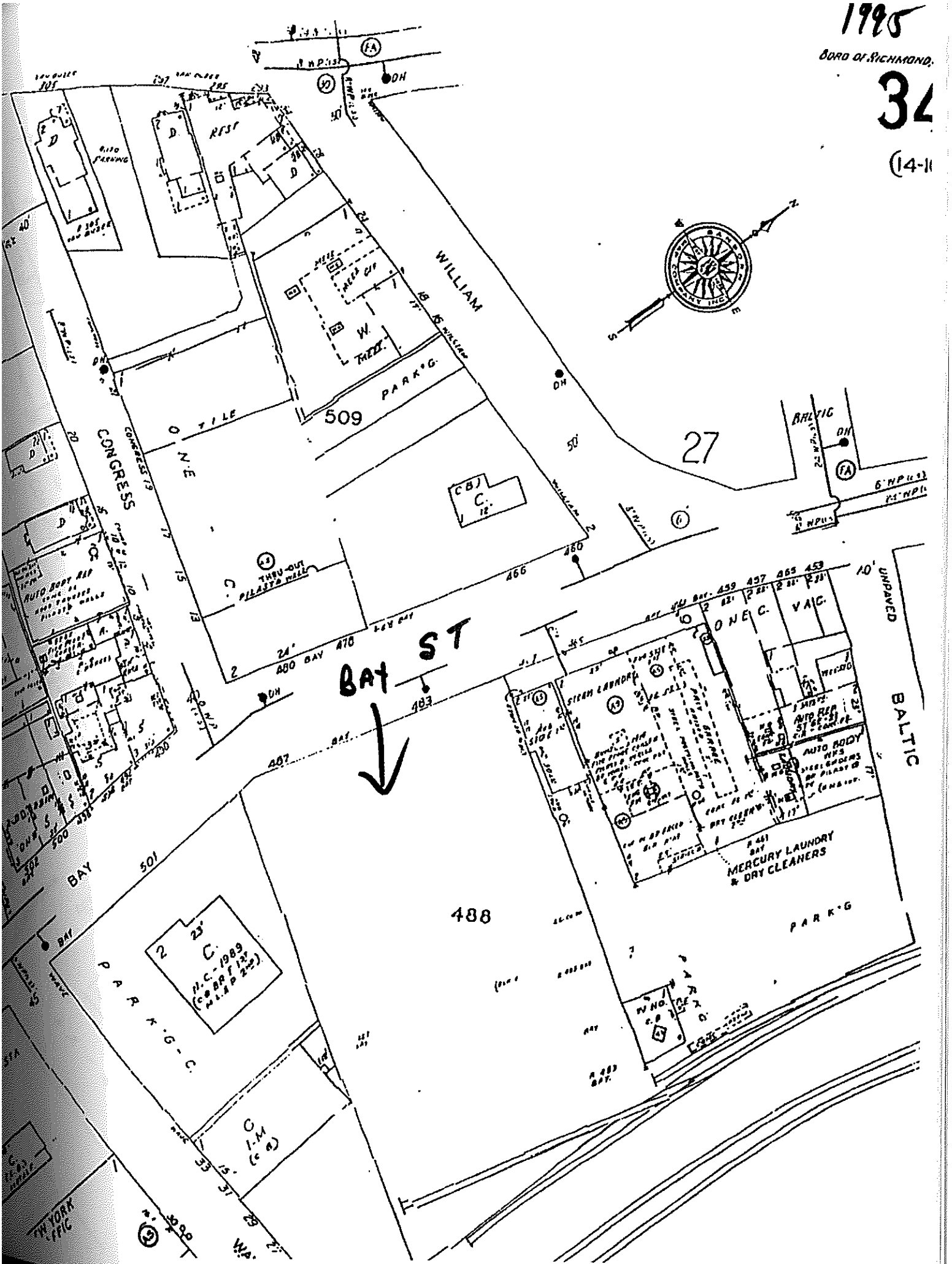
34

(14-16)




1993
BAY ST
BALTIC
UNPAVED
UNPAVED
MERCURY LAUNDRY
& DRY CLEANERS
AUTO BODY
WKS
509
488
489
27
PARK'G
PARK'G
PARK'G
ONE
ONE
VAC.
C.B.J.
C.
12'
THRU-OUT
PILASTER WALL
STEEL SIDE
YD.
WAVE
WAVE
WILLIAM
WILLIAM
DH
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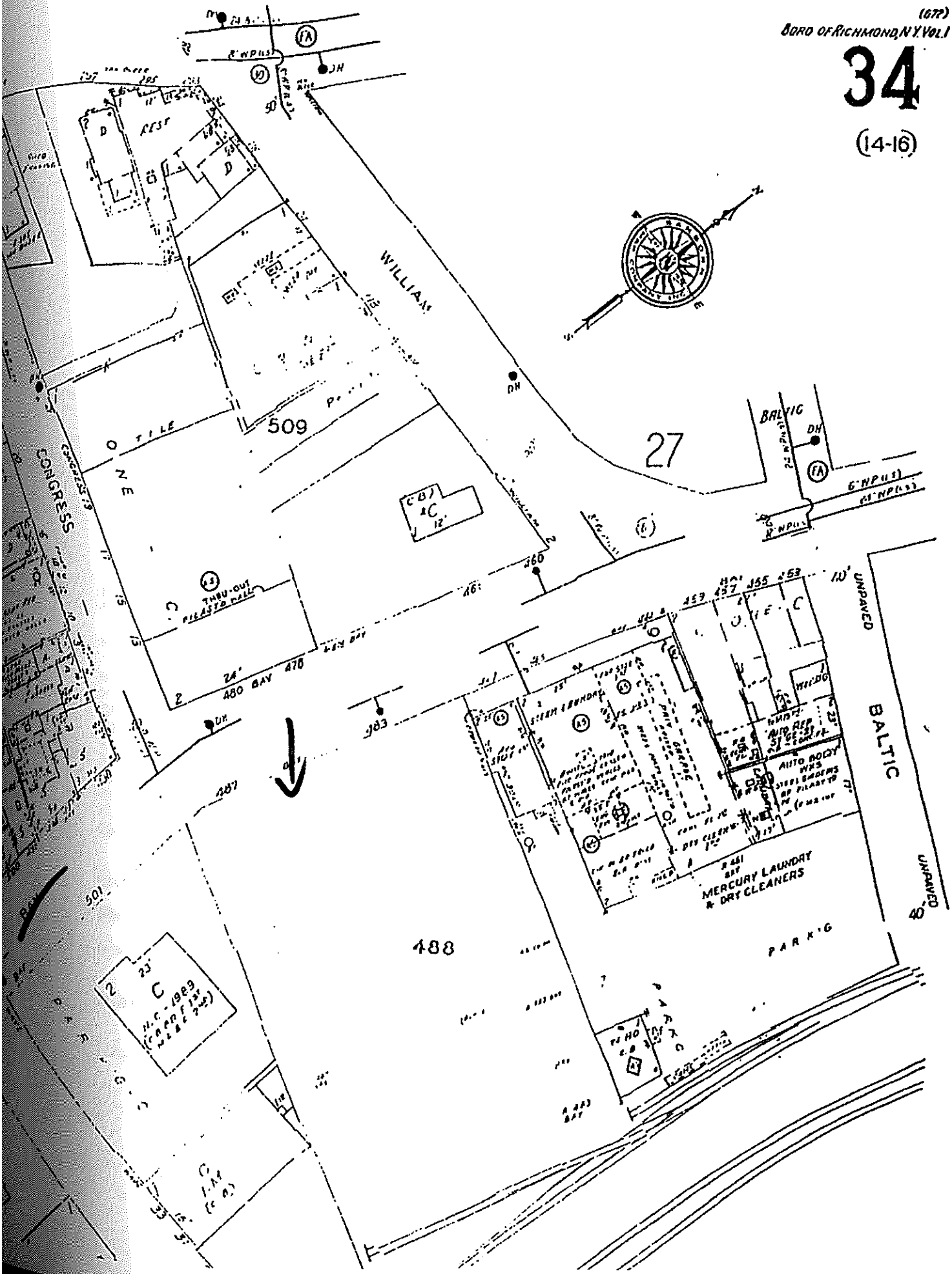

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Phase I Environmental Site Assessment
475 Bay Street
Staten Island, New York

Prepared For:

BFC Partners
325 Gold Street
Brooklyn, NY 11201

April 2013

Prepared By:
URS Corporation

URS Job No. 11140223

EXECUTIVE SUMMARY

URS Corporation (URS) was retained by BFC Partners (BFC) to conduct a Phase I Environmental Site Assessment (ESA) and a subsurface geophysical survey of 475 Bay Street in Staten Island, NY (subject property). The purpose of URS' Phase I ESA was to evaluate whether current or historical activities on or near the subject property may have resulted in significant contamination by hazardous substances or wastes, also known as a Recognized Environmental Condition (REC).

This Phase I ESA was performed in general conformance with the ASTM *Standard Practice for Environmental Site Assessments* (Standard E 1527-05) approved November 18, 2005. The Phase I ESA was also performed in accordance with the URS proposal to BFC dated March 18, 2013.

The subject property is currently vacant and consists of approximately fifty-four thousand square feet of open space. There are no buildings or significant structures. A wood and steel fence is present in the middle of the site along with a couple of light poles, though there were no light bulbs present in them.

Historic documentation reviewed by URS date back to 1885. According to the information reviewed, the subject property has previously been used as a lumber yard, a coal storage yard, sand and gravel storage yard, and a vehicle storage yard. Most recently, heavy construction equipment had been stored on the site.

No USTs or evidence (fill/vent pipes) associated with former USTs was observed or reported during the site visit and a geophysical survey indicated the presence of subsurface anomalies (buried and surface metal), but did not identify subsurface structures such as tanks or drums. However, historic maps indicated the presence of underground gasoline storage tanks on the western portion of site and northeast corner of site. Also, the historic maps identified site structures as oil and grease storage areas or bins. Based on the results detailed herein, the historical use of the Site is considered a Recognized Environmental Condition (REC) at the subject property.

Additionally, there are a number of off-site properties that are hydraulically upgradient of the subject property. These include a gasoline station at 511 Bay Street that has several closed and open spills, dry cleaners and other historically industrial properties. These sites also represent a REC to the subject property.

Based on the findings of this Phase I ESA, URS recommends a Phase II subsurface investigation for the Site. The Phase II ESA should include the collection and analysis of soil and groundwater in accordance

with New York State Department of Environmental Conservation guidelines set forth in 6 NYCRR Part 375 .

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1.0 INTRODUCTION

URS Corporation (URS) was retained by BFC Partners (BFC) to conduct a Phase I Environmental Site Assessment (ESA) and a subsurface geophysical survey of 475 Bay Street in Staten Island, NY (subject property). The purpose of URS' Phase I ESA was to evaluate whether current or historical activities on or near the subject property may have resulted in significant contamination by hazardous substances or wastes, also known as a Recognized Environmental Condition (REC).

This Phase I ESA was performed in general conformance with the ASTM *Standard Practice for Environmental Site Assessments* (Standard E 1527-05) approved November 18, 2005. Additionally, URS completed a subsurface geophysical survey. The Phase I ESA was also performed in accordance with the URS proposal to BFC dated March 18, 2013.

The Phase I ESA objectives, scope, and limitations are presented in the following sections.

1.1 OBJECTIVE

The purpose of URS' Phase I ESA was to gather information about the subject property and surrounding areas to identify releases and threatened releases of hazardous substances, pollutants and contaminants, petroleum or petroleum products, and controlled substances on, at, in or to the subject property that would represent an area of REC.

1.2 SCOPE OF WORK

URS' Scope of Work for the Phase I ESA consisted of an inspection of the subject property and nearby area, a review of historical information on activities at the subject property, a review of readily available regulatory information concerning the subject property and other nearby properties of environmental concern, and preparation of a report detailing URS' results and conclusions. The environmental assessment was prepared in general conformance with URS' proposal to BFC dated March 18, 2013, which also references ASTM Standard E 1527-05.

1.3 LIMITING CONDITIONS

URS' site inspection included a walking inspection of areas that were accessible by foot and a drive-by inspection of surrounding and adjacent properties, including those properties identified in the environmental database search.

1.4 LIMITATIONS OF THE ASSESSMENT

URS has performed the Scope of Services set forth in the Proposal(s) related to this project, as they may have been amended (the "Proposals"), in specific reliance on the understandings and agreements reached between URS and BFC and its affiliates ("Client or Lender") as reflected in the Proposals and the written agreement between them (the "Agreement"). URS' Scope of Services was limited to that stated in the Proposal(s). Without limiting the generality of the foregoing, and to insure that there are no misunderstandings regarding the scope of URS' activities, be advised that the Scope of Services did not include a radon survey, asbestos survey, a lead-based paint survey and general subsurface intrusive sampling and analysis. URS did not evaluate structural, electrical or mechanical issues, wetlands assessments, or other activities not expressly described in the Proposal or in URS' report, if any for the work.

The Report and any other information which URS prepared and submitted to Client in connection with this project (collectively, the "Reports") are for the sole use and benefit of Client and may not be used or relied upon by any other person or entity without the prior written consent of Client and URS. Any such consent given by URS shall be deemed to be and shall be subject to the terms and conditions of the Proposals and the Agreement, including without limitation, the warranty, liability and indemnity terms thereof, and any person given such consent (the "Grantee") shall be deemed to have agreed to such terms and conditions by its use and reliance on the Reports. Such Grantee must also agree not to reveal the contents of the Reports to any other person or entity without the prior written consent of both Client and URS.

URS' services in the development of this Report were conducted, within the limits prescribed by the Agreement, in a manner consistent with that level of care and skill ordinarily exercised by members of the same professions currently practicing in the same locality under similar conditions and no other guaranty, warranty, or representation, either expressed or implied, is included or intended herein.

Client recognizes and agrees that:

1. The information in the Reports relates only to the properties specifically described in the Proposals and Reports;
2. The information and conclusions provided in the Reports apply only to the subject property as they existed at the time of URS' site examination. Should site use or conditions change or should there be changes in applicable laws, standards or technology, the information and conclusions in the Reports may no longer apply;
3. URS makes no representations regarding the value or marketability of these properties or their suitability for any particular use, and none should be inferred based on the Reports; and
4. The Reports are intended for use in their entirety and no excerpts may be taken to be representative of the findings of this investigation.

1.5 VALIDITY

This report was prepared in conformance with the ASTM Standard E 1527-05 approved November 18, 2005. The following components of this report must be updated after one hundred eighty (180) days of the date of this report if the property has not been acquired within that period of time:

1. Interviews with owners, operator and occupants;
2. Searches for recorded environmental cleanup liens;
3. Reviews of federal, tribal, state, and local government records;
4. Visual inspection of the property and of adjoining properties; and
5. The declaration of the environmental professional responsible for the assessment or update.

2.0 SITE DESCRIPTION

Information concerning the subject property was obtained from a site inspection conducted by Ms. Cary Friedman of URS April 1, 2013. A representative of the property owner was not present during the site visit.

2.1 PHYSICAL LOCATION AND DESCRIPTION OF PROPERTY

The subject property is located at 475 Bay Street, Staten Island Borough, NY and identified on Tax Maps as Block 488, Lot 9. According to observations made during the site inspection, the site is partially paved with asphalt visible in many areas, though it is severely deteriorated. Many areas of the site are covered with dirt and/or railroad ballast stone. The total area of the subject property is approximately 53,922 square feet (ft^2).

The general location of the subject property is shown on the Site Vicinity Map, **Figure 1,** and A Site Location Map is presented as **Figure 2**. Additionally, a site survey plan is presented in Appendix A.

2.2 ENVIRONMENTAL SETTING

Environmental characteristics including topography, geology, and hydrogeology were evaluated based on site observations, published literature, and available maps.

2.2.1 Topography

According to the United States Geological Service (USGS) 7.5-Minute Topographic Quadrangle Map entitled *Jersey City NJ* (1981) the subject property is located at an elevation of 16 feet above mean sea level (msl). Based on the topographic map and subject property observations, surface topography in the vicinity of the subject property appears to the east towards The Narrows of New York Bay. Consequently, properties located to the west of the Site are assumed to be hydraulically upgradient.

2.2.2 Soils

According to The EDR Radius Map™ Report with GeoCheck®, soil in the subject property vicinity is classified as Urban Land, which is land that has been heavily disturbed by development in a highly urbanized area. Since the soil's original structure and content have been altered by human development, the soil at the subject property has lost its original characteristics and is thus unidentifiable. The native soil in the vicinity of the subject property is categorized as Urban Land with heterogeneous composition. The EDR report indicates that other subordinate soil types that may appear in the general area of the subject property include silt loam, loamy sand, sandy loam and fine sandy loam.

2.2.3 Hydrogeologic Conditions

The local topography, geology and surficial drainage patterns are tools used to evaluate the properties of local shallow groundwater flow. Groundwater most likely exists within the overburden sediments and fills, and may also be interconnected through fractures to the underlying bedrock. Groundwater is currently not used in Staten Island as public, potable water supply; however it is still classified as Class GA groundwater by the New York State Department of Environmental Conservation (NYSDEC). Based on the topography and surficial drainage patterns, it appears that the direction of groundwater flow is topographically downgradient to the east. No site-specific information on hydrogeological conditions beneath the subject property was obtained by URS.

2.2.4 Physiology

Staten Island is underlain by consolidated rocks (bedrock) and unconsolidated deposits. The bedrock structure is complex, and rock types differ greatly within the island. The island is underlain by igneous, metamorphic, and sedimentary rocks that range from Upper Proterozoic to Lower Jurassic age. These bedrock units are the Manhattan Schist, the Staten Island Serpentine; the Newark Supergroup, undivided; and the Palisade Diabase. The rocks are directly overlain by unconsolidated deposits of the Upper Cretaceous Raritan Formation, undivided, or by upper Pleistocene deposits of Wisconsinan glacial drift, except in several bedrock-outcrop areas. Holocene shore and salt-marsh deposits overlie upper Pleistocene deposits in shore and low-lying areas, especially in the western part of the island, and large areas of Holocene deposits along the Arthur Kill

Staten Island consists essentially of a northeast and southwest range of low serpentine hills (from 300 to 380 feet in elevation) resting upon or within crystalline schists. In August, 1905, when blasting the rock under water at the site of the new ferry slip at St. George, mica schist containing garnet, and unmistakably homologous with the Manhattan phases, was brought to the surface.

The native soil in the vicinity of the subject property is categorized as Urban Land with heterogeneous composition. The EDR report indicates that other subordinate soil types that may appear in the general area of the subject property include silt loam, loamy sand, sandy loam and fine sandy loam.

2.2.5 Surface Water

During the site reconnaissance, no natural surface water bodies were identified on the subject property. The nearest surface water is New York Bay, located approximately one-quarter mile to the east of the subject property. According to the EDR Radius Map, the subject property is located in the 500-year floodplain.

2.2.6 Wetlands

URS reviewed a United States Department of Interior, United States Fish & Wildlife Service (FWS) National Wetlands Inventory (NWI) map provided in The EDR Radius Map™ Report with GeoCheck® and information provided online by the FWS website. According to the NWI map, wetland areas were not identified on the subject property. A wetlands delineation was not performed as part of this assessment.

3.0 USER PROVIDED INFORMATION

As required by AAI, additional inquiries are required to be conducted by the property purchaser. These inquiries include:

1. Identification of environmental cleanup liens against the subject property;
2. Specialized knowledge or experience regarding the subject property;
3. Relationship of the purchase price to the fair market value if the subject property was not contaminated;
4. Commonly known or reasonably ascertainable information regarding the subject property; and
5. Degree of obviousness of the presence or likely presence of contamination at the subject property.

URS provided to BFC Partners (the "Client") the ASTM E 1527 – 05 User Questionnaire for completion. As of the date of this report, URS has not received a completed copy. A copy of the questionnaire is provided as **Appendix B**.

3.1 TITLE RECORDS

Procurement and review of a 50 Year Chain-of-Title was not included in the scope of services for this project.

3.2 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

An EDR Environmental Lien and Other Activity and Use Limitations (AUL) Search Report was available for the subject property. The search indicated there were not Environmental Liens and AULs for the subject property. A copy of the EDR Environmental Lien/AUL search is provided as **Appendix C**.

3.3 DATA GAPS

URS' ability to identify past uses of the subject property was limited by the following conditions identified during URS' review of historical resources:

- Individual site features were indiscernible due to the scales of the historic aerial photographs provided by EDR and dense development surrounding the subject property.
- Data gaps of greater than five years were identified in historical information.

During this assessment, URS did not identify other significant data gaps in the reasonably ascertainable information reviewed and described in this report regarding the subject property which would be expected to impact our conclusions. The indiscernible historical resource information is not expected to change the conclusions of this report.

3.4 PREVIOUS INVESTIGATIONS

URS was provided with the following previous environmental assessment/investigation reports during the project.

AVT Enterprises, 2000. Phase I Environmental Site Assessment*, 475 Bay Street, AKA Block 488 Lot 9, Staten Island, New York*.

The Phase I ESA in 2000 concluded that the history of the subject property indicated it was used as a coal yard with a filling station and tanks. It was recommended that the property should be surveyed by a magnetometer to locate any buried tanks and soil borings should be collected and analyzed for petroleum compounds including PCBs. The previous Phase I ESA is provided as **Appendix D**.

4.0 SITE INSPECTION

URS inspected the subject property on April 5, 2013. Weather conditions at the time of the inspection were partly to mostly cloudy with temperatures ranging from the low 50s to the mid 60s by afternoon. The focus of the inspection was on areas previously identified on Sanborn Fire Insurance maps from the 1937 indicating the property was used for coal storage and had a fueling area on the western portion of the site. Additionally, a Ground Penetrating Radar (GPR) contractor (Hager-Richter) was conducted the same day as the inspection.

Photographs taken during URS' site inspection are provided in **Appendix E**.

4.1 CURRENT USES OF THE PROPERTY

The subject property is currently vacant and consists of approximately fifty-four thousand square feet of open space. There are no buildings or significant structures. A wood and steel fence is present in the middle of the site along with a couple of light poles, though there were no light bulbs present in them.

4.2 PAST USES OF THE PROPERTY

Historic documentation reviewed by URS date back to 1885. According to the information reviewed, the subject property has previously been used as a lumber yard, a coal storage yard, sand and gravel storage yard, and a vehicle storage yard. Most recently, heavy construction equipment had been stored on the site. A City of New York Department of Buildings Certificate of Occupancy from 1966 indicates the site was used as an "open sales and storage of automobiles".

Further information on the historical use of the subject property is presented in **Section 6.0**.

4.3 EXTERIOR AND INTERIOR SITE OBSERVATIONS

According to observations made during the site inspection, the site is partially paved with asphalt visible in many areas, though it is severely deteriorated. Many areas of the site are covered with dirt and/or railroad ballast stone.

4.3.1 Hazardous Substances

No hazardous substances were identified during the site inspection.

4.3.2 Hazardous Wastes

URS did not observe hazardous waste generation activities at the subject property during the site reconnaissance.

4.3.3 Solid Waste

Some debris is piled up along the eastern site boundary. The debris consisted of vegetation, small pieces of metal (fragments of same light poles as those still standing on the site), small stone, and small concrete fragments.

It is URS' opinion that the solid waste generation at the subject property is not an environmental concern.

4.3.4 Underground/Aboveground Storage Tanks

No underground storage tanks (USTs) or evidence (fill/vent pipes) associated with former USTs was observed or reported during the site visit.

4.3.5 Drums and Containers

No drums or containers were observed during the site inspection.

It is URS' opinion that the management of containers at the subject property is not an environmental concern at this time.

4.3.6 Wells

No potable, monitoring, injection, or dry wells were observed on the subject property during the site visit.

4.3.7 Drains and Sumps

No drains or sumps were observed during the site inspection. Some type of utility manhole was observed (partially covered by a large concrete block utilized along the western site boundary to prevent unwanted vehicle traffic on the site), it could not be accessed during the site inspection. Water was flowing up and out of the manhole and down the street. The water appeared to be clear, free of debris, and did not have an odor or sheen. The owner’s representative said that they were notifying the owner of the site about the flowing water

It is URS' opinion that the drains at the subject property are not an environmental concern.

4.3.8 Wastewater

No process wastewater is generated at the subject property.

It is URS' opinion that the wastewater at the subject property is not an environmental concern.

4.3.9 Pits, Ponds, and Lagoons

No pits, ponds, and lagoons associated with waste disposal were observed on the subject property at the time of the site visit.

4.3.10 PCB-Containing Equipment

No potential PCB-containing equipment was observed during the site visit.

4.3.11 High Tension Power Lines

No overhead high tension power lines were observed to be located within 300-feet of the subject property.

4.3.12 Elevated Lead Levels in Water

A lead in drinking water survey was not conducted nor included in the authorized scope of services.

4.3.13 Lead-in-Paint

There are no painted structures on the site. A lead-based paint survey was not included in the scope of services.

4.3.14 Radon

A radon screening survey was not conducted nor included in the authorized scope of services. Furthermore, the subject property is located in Zone 3 according to the EPA's Map of Radon Zones. Zone 3 areas are predicted to have an average indoor radon screening potential less than 2.0 picoCuries per Liter (pCi/L). The USEPA's action level is 4.0 pCi/L. According to the State of New York Radon Database, 61 sites were tested in Richmond County in 2011 and reported an average radon result of 1.58 pCi/L. Based on the EPA Radon Zone and reported testing results, it is URS' opinion that elevated radon levels do not represent a significant environmental concern for the subject property. Therefore, radon is not anticipated to represent a significant environmental concern to the subject property.

4.3.15 Asbestos

There are no structures on the site. An asbestos survey was not included in the scope of services.

4.3.16 Mold Conditions

A formal mold assessment was not included in the scope of work.

4.3.17 Other Physical Evidence of Contamination

No unusual odors, pools of waste liquids, runoff patterns, and berms were observed on the subject property during the site inspection. As noted above, the flowing water coming from a manhole onsite just inside the western site boundary was observed to be clear, free of debris, and had no visible sheen or detectable odor.

A Geophysical survey was conducted across the site during the site visit on April 1, 2013. Preliminary interpretation indicate the presence of subsurface anomalies such as buried and surface metal, but not did not identify subsurface structures such as tanks or drums.

5.0 ADJOINING AND SURROUNDING LAND USE

URS performed a visual inspection of readily visible areas of adjacent properties. The following description of the current uses of adjoining properties and surrounding properties of potential environmental concern is based on URS' observations on the date of the inspection; and onsite and telephone interviews with owner's representatives, managers, and other site employees.

5.1 CURRENT USES OF ADJACENT PROPERTIES

The subject property is located in New York, Staten Island Borough, NY in an area that consists of mainly commercial and light industrial properties. In general, prominent adjoining land uses are as follows:

North: The subject property is bound to the north by Happy Dry Cleaners; the brick building is a 2-story facility.

East: The subject property is bound to the east by active elevated Staten Island Rapid Transit tracks.

South: The subject property is bound to the south by a 2-story McDonald's restaurant and a single story masonry building housing an auto body repair shop.

West: The subject property is bound to the west by Bay St; across Bay St is a plumbing supply store and showroom.

Additional information concerning neighboring facilities is discussed further in the appropriate portions of **Section 7.0**.

5.2 SURROUNDING PROPERTIES OF POTENTIAL ENVIRONMENTAL CONCERN

Based on URS' observations during the site reconnaissance of visible areas of properties adjacent to the subject property, there are properties that present a potential environmental concern.

- The dry cleaning facility bound to the north presents an environmental concern. This property, based on information found on historical maps has historically housed a steam laundry and dry cleaning facilities as far back as 1937.
- An auto-body repair shop was observed just over the southern site boundary represents a potential environmental concern.
- Numerous other auto-body shops were observed within one or two blocks from the subject property and present a potential environmental concern.

6.0 HISTORIC SITE AND SURROUNDING PROPERTY CONDITIONS

The history of land use on and near the subject property was evaluated from interviews, review of historical information and other documents referenced in **Section 10.0**.

6.1 CURRENT AND PRIOR OWNERSHIP

Procurement and review of a 50 Year Chain-of-Title was not included in the scope of services for this project.

6.2 INTERVIEWS

URS was not accompanied by a site representative during the site visit.

6.3 AERIAL PHOTOGRAPHS

Information regarding past site land use was obtained by a monoscopic review of historical aerial photographs obtained from EDR for the years 1924, 1943, 1954, 1966, 1975, 1984, 1991, 1995, 2006, 2008, 2009, 2010 and 2011 (**Appendix F**). The scale of these photographs is 1" = 500' unless indicated otherwise. The following is a summary of the review:

1924 The site vicinity is developed to the west of railroad. To the east of the railroad, the land is relatively undeveloped. Individual site features were indiscernible due to the resolution of the photograph.

1943 The site vicinity is developed to the west of railroad. To the east of the railroad, the land is now more developed. The site appears to be disturbed with evidence of sand/gravel storage.

1954 The site vicinity is developed to the west of railroad. To the east of the railroad, the land is now more developed. The site appears to be undeveloped with rows of automobiles.

1966 The site vicinity is developed to the west of railroad. To the east of the railroad, the land is now more developed. The site appears to be vacant with no development.

1975 The site appears to be undeveloped with rows of automobiles. The site vicinity is developed to the west of railroad. To the east of the railroad, the land is now more developed.

1984 The site appears to be undeveloped with rows of automobiles. The site vicinity is developed to the west of railroad. To the east of the railroad, the land is now more developed.

1991-

2011 The subject property and adjacent properties were shown similarly to the 1984 aerial photograph. The site vicinity in all directions remained densely developed. The subject property appears undeveloped and essentially vacant land.

Based solely on the review of the historical aerial photograph, no RECs were identified associated with the subject property or adjacent properties.

6.4 SANBORN FIRE INSURANCE MAPS

URS contacted EDR for information regarding Sanborn™ Fire Insurance Maps for the subject property. Sanborn™ Maps are published detailed city maps, which were originally designed to meet the requirements of the fire insurance industry. Fire insurance maps provide detailed property information by outlining all buildings in applicable areas, showing construction types, building heights, building numbers, use by occupancy, as well as, the location and content of USTs/ASTs.

Sanborn™ Fire Insurance Rate Maps were available for this area to provide historical background of the subject property and its vicinity for the years 1885, 1898, 1917, 1937, 1950, 1962, 1977, 1981, 1983, 1986-1989, 1990-1996, and 2001-2007 (**Appendix F**).

1885 The subject property, located along Bay Street, was depicted as primarily vacant with two small structures on the western end of the site identified as dwellings and structure identified as a shed. The surrounding properties are primarily vacant with a few dwellings and hotel to the west, across Bay Street.

1898 The subject property is identified as the James Thompson and Sons Lumber Yard. The map depicts lumber piles and storage sheds. The map identifies the Staten Island Rapid Transit rail tracks to the east and dwellings to the west across Bay Street.

1917 The subject property remains identified as a lumber yard. There are additional structures including a glazing building, nail storage and warehouses. The property to the north is identified as a pie baking company and the lumber yard is also identified east of the train tracks.

1937 The subject property is identified as the Chas. A. M^{c}Ateer, Inc. Coal Yard ("not in operation"). At the west end of site, there is a structure identified as a "filling station" with three potential underground tanks. At the southwest corner of the site is a dwelling and "scales." At the

southeast corner of the site there are sand bins and two vacant buildings. At the east central portion site there are structures identified as "coal pockets." At the northeast portion of the site there are three buildings and a shed. One of the buildings is identified as "oil and grease storage" with a concrete floor. To the North of the site, the property now has a "steam laundry" and a "sand and gravel" company. To the west, across Bay Street, the property is identified as parking/garages and a gas station. To the south, the property depicted as a lumber yard and auto painting facility.

1950 The subject property is identified as the J. T. Montesani Sand and Gravel Company, ("sand and gravel yard"). At the west end of site, the structure identified as a "filling station" on the 1937 map is now vacant the tanks are no longer depicted on the map. At the southwest corner of the site is a dwelling. At the southeast corner of the site there are two vacant buildings. At the east central portion site there are structures identified as "sand hoppers" and a conveyor. At the northeast portion of the site there are three buildings and a possible gas tank. To the North of the site, the property remains identified as a laundry and dry cleaner. To the west and south, the properties remain similar in depiction to the 1937 map.

1962 The subject property is identified is essentially vacant except for two vacant structures on the south side of the site one vacant structure at the northeast corner of the site. The site is labeled "amusement parking." To the west and south, the properties remain similar in depiction to the 1937 map.

1977 The subject property is identified is essentially vacant except for a small structure labeled "office" in the west central portion of the site. The site is labeled "used auto sales." To the west and south, the properties have been further developed with commercial and industrial structures.

1981-1990 The subject property and surrounding properties are virtually unchanged from the 1977 map.

1991-2007 The subject property is vacant with no development or structures. To the west and south, the properties remain commercial and light industrial in nature.

The historical use of the site as a coal yard along with potential gasoline tanks creates a Recognized Environmental Concern for the subject property.

6.5 CITY DIRECTORIES

City directories provide an indication of past activities at and around the subject property by listing the name of the occupant, residential or commercial, by address. URS reviewed city directories obtained from EDR for the years spanning 1928 through 2012 (**Appendix F**).

The subject property address (475) was not specifically identified in the 1928 through 2012 city directory abstracts. However, nearby and adjacent addresses were identified with multiple listings in the city directories searched by EDR. The majority of the listings indicate commercial and light industrial properties including dry cleaners, gas stations and auto shops. Additional information concerning neighboring facilities is discussed further in the appropriate portions of **Section 7.0**.

Based on the review of The EDR-City Directory Abstract obtained from EDR, a REC is associated with the historical uses of the subject property or adjacent properties.

6.6 TOPOGRAPHIC MAPS

URS reviewed historic USGS 7.5-minute topographic maps of the *Jersey City, NJ* quadrangle, the *Passaic NJ* quadrangle, the *Staten Island* quadrangle and the *Narrows* quadrangle dated 1891, 1900, 1905, 1925, 1947, 1955, 1966, 1967, 1981 and 1998 (**Appendix F**). The following is a summary of the review.

1891-1925 Due to the scale of the topographic map, observations of the subject property and adjacent properties were limited as site-specific detail was not provided. Roadways were depicted similar to their current configurations surrounding the subject property area.

1947-1998 No major changes were depicted to the subject property or adjacent properties as compared to the earlier topographic maps. The subject property area shown on the maps was generally identified as a developed area along the Staten Island shoreline. Roadways remained depicted similar to their current configurations surrounding the subject property area.

Based solely on the review of the EDR Historical Topographic Map Report, environmental concerns were not identified associated with the historical uses of the subject property or adjacent properties.

7.0 REGULATORY AGENCY REVIEW

7.1 DATABASE SEARCH

URS reviewed information gathered from several environmental databases compiled by EDR in order to evaluate, to the extent possible, whether activities on or near the subject property have the potential to create adverse environmental impacts on the subject property. EDR reviews databases compiled by Federal, state, and local government agencies. The complete list of databases is provided in **Appendix G**.

It should be noted that this information is reported as URS received it from EDR, which in turn reports information as it is provided in various government databases. It is not possible for either URS or EDR to verify the accuracy or completeness of information contained in these databases. However, the use of and reliance on this information is a generally accepted practice in the conduct of environmental due diligence. A description of the pertinent databases searched and the information obtained is summarized below:

AGENCY DATABASE	SURVEY DISTANCE	NO. OF SITES IDENTIFIED
STANDARD ENVIRONMENTAL RECORD SOURCES		
Federal NPL site list	1.0 mile	0
Federal Delisted NPL site list	1.0 mile	0
Federal CERCLIS list	0.5 mile	0
Federal CERCLIS NFRAP site list	0.5 mile	1
Federal RCRA CORRACTS facilities list	1.0 mile	0
Federal RCRA non-CORRACTS TSD facilities list	0.5 mile	0
Federal RCRA generators list RCRA-LQG RCRA-SQG RCRA-CESQG	0.25 mile	 2 1 2
Federal institutional control/engineering control registries	0.5 mile	0
Federal ERNS list	Property	0
State and tribal lists of potentially hazardous waste sites –equivalent CERCLIS: SHWS VAPOR REOPENED	1.0 mile	 2 0
State and tribal landfill and/or solid waste disposal site lists SWF/LF	0.5 mile	 2
State and tribal leaking storage tank lists LTANKS HIST LTANKS	0.5 mile	 18 19

AGENCY DATABASE	SURVEY DISTANCE	NO. OF SITES IDENTIFIED
State and tribal registered storage tank lists		
TANKS	0.25 mile and Property	0
AST		9
UST		6
CBS		0
CBS AST		0
CBS UST		0
State and tribal registered storage tank lists MOSF	0.5 mile	0
State and tribal institutional control/engineering control registries INST CONTROL	0.5 mile	0
State and tribal voluntary cleanup sites VCP	0.5 mile	0
State and tribal Brownfield sites BROWNFIELDS	0.5 mile	0
ADDITIONAL ENVIRONMENTAL RECORDS SOURCES		
Local Drycleaners	0.25 mile	5
Local Brownfield lists	0.5 mile	0
Federal RCRA generators list RCRA-NonGen	0.25 mile	35
Formerly Used Defense Sites List (FUDS)	1.0 mile	0
Superfund (CERCLA) Consent Decrees (CONSENT)	1.0 mile	0
Records of Decision (ROD)	1.0 mile	0
Local lists of hazardous waste manifest sites (MANIFEST)	0.25 mile	149
Local lists of landfill/solid waste disposal sites	0.5 mile	0
Local lists of hazardous waste/contaminated sites (SCRD) DRYCLEANERS	0.5 mile	0
Local lists of registered storage tanks		
HIST UST	0.25 mile and Property	6
HIST AST		0
Records of emergency release reports		
NY Spills	0.125 mile	10
NY Hist Spills		13
EDR PROPRIETARY RECORDS		
Manufactured Gas Plants	1.0 mile	2
EDR Historical Auto Stations	0.25 mile	22
EDR Historical Cleaners	0.25 mile	4

7.2 SUBJECT PROPERTY

The subject property, at 475 Bay Street, was not identified in any of the databases searched by EDR:

7.3 ADJACENT PROPERTIES

The following listings were reported in the EDR database report for adjacent properties.

Harbor Isle Chevrolet, 478 Bay Street and New Method Service Co, Inc., 465 Bay Street were listed in the RCRA Non-Generator database. These facilities are currently verified non-generators of hazardous waste. New Method Service Co., Inc. also is listed in the UST and historic UST databases. The databases show that there is one petroleum bulk storage tank currently in use and several tank records for older tanks that were closed. There are no violations or spill numbers reported for this facility. It is adjacent to the subject property at equal gradient. Neither site is considered an environmental concern.

465 Bay Street is listed in an EDR proprietary database as an historical drycleaner from 2007 to 2012. It is located upgradient and adjacent to the subject property and therefore is considered a REC to the subject property.

7.4 SITE VICINITY

URS reviewed the EDR database report to identify off-site facilities that have suspected or documented environmental concerns or RECs that may negatively impact the subject property. URS' criteria for further evaluating the potential impact of a listed off-site facility are summarized below:

- The listed off-site facility is adjacent to the subject property; or, the listed off-site facility is documented or assumed to be hydrogeologically upgradient and a likely pathway exists for environmentally mobile contaminants to reach the subject property; or, contaminants from the listed off-site facility can reach the subject through other pathways (i.e., surface runoff); and,

- The off-site facility is listed on one of the following databases: Federal NPL, Federal CORRACTS, Federal CERCLIS, Federal ERNS, State SPL, State SCL, State LUST, State Deed Restrictions, State Toxic Pits, Landfill (excluding transfer stations), and is not listed in the database as "closed" or "no further action" (including NFRAP); or,

- The facility adjoins the subject property and is listed as a RCRA large-quantity hazardous waste generator, a CERCLIS NFRAP site, or an UST operator; or

- The facility is a known or suspected concern based on URS' experience or observations made during the site reconnaissance. (i.e., Dry-cleaning operations that may or may not be listed as RCRA-SQG or a non-adjacent UST site that appears to have a remediation system in place).

The EDR database report contains several separate listings on various databases for off-site properties within a one mile radius of the subject property.

There were several automobile/gasoline stations upgradient and equal gradient to the subject property: New Clifton Car Service at 490 Bay Street (2004); A. Jofi's Auto Body at 33 Wave Street; Grant Auto Body at 31 Wave Street (2000); Jerry DeLuca Complete Auto Repair at 15 Williams Street (1999-2012); Homeport Service Station through Vanbro Motors, Inc. at 511 Bay Street (1999-2012); an unnamed gasoline station at 73 Wave Street; and Wave Auto Detailing at 70 Wave Street (2001). There are either no spill numbers listed for these sites or the spill numbers have been closed. These are not considered environmental concerns.

There has been a gasoline station at 511 Bay Street owned and operated by different entities since at least 1980. There are several closed and open spill numbers at this site because of failed tank tests and contaminated soil around 12 gasoline and oil USTs when they were removed in 1998. It is less than 1/8 mile upgradient or equal gradient from the subject property. Therefore, it is considered a REC to the subject property.

There were several facilities upgradient and equal gradient to the subject property with spills numbers that have been closed as well as RCRA Non-Generators such as: Wave Street NYCDOT Yard at 34 Wave Street; an unnamed facility at Bay Street & Williams Street; and an unnamed facility at 29 Baltic Street. These are not considered environmental concerns.

While a number of additional listings meet the criteria for further evaluation listed above, it is the opinion of URS that none of the remaining off-site database listings are likely to be a source of significant environmental impacts to the subject property. They remaining lists are either downgradient from the subject property or are greater than 1/8 mile distance; they would not likely affect the subject property, either by releases to the ground surface or through the migration of impacted groundwater.

7.5 UNMAPPED SITES

URS reviewed EDR's Orphan Summary, which is a listing of sites that have not been geocoded based on lack of sufficient data regarding their exact location within the general area. The subject property was not specifically identified as an Unmapped Site. The twenty unmapped orphan sites listed are considered to have a low potential to have impacted environmental conditions at the subject property because of one or more of the following factors: the reported site status, absence of reported release, the distance from the subject property, and/or the inferred hydrogeologic cross/downgradient location from the subject property.

The review of the Orphan Summary list did not identify properties that are likely to represent an environmental concern to the subject property.

7.6 REGULATORY AGENCY CONTACTS/INTERVIEWS

During the performance of an environmental assessment, State and local regulatory agencies having jurisdiction over the subject property are contacted to evaluate the following information: the status of relevant environmental permits; whether there has been violations, or other similar correspondence from such agencies; whether corrective action or remediation is planned, currently taking place, or has been completed at the subject property; whether there have been reported violations or complaints that the subject property is not in compliance with environmental laws, regulations, or standards, and whether the subject property is under investigation for such non-compliance; whether the subject property is listed on the regulatory databases; and whether there is other pertinent documentation on file with such regulatory agencies regarding the subject property or surrounding sites of concern.

URS contacted the following regulatory agencies for information regarding environmental violations or incidents and/or the status of active enforcement actions at the subject property.

- The City of New York Department of Environmental Protection (NYCDEP);
- The City of New York Department of Health (NYCDOH); and,
- The New York State Department of Environmental Conservation (NYSDEC).

URS have not received a response to date. Should environmentally significant information be obtained from these regulatory agencies, such information will be forwarded as an addendum to this report.

Copies of regulatory correspondence are provided in **Appendix H.**

8.0 CONCLUSIONS

URS has developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312 *Standards and Practices for All Appropriate Inquiries; Final Rule* for the property located at 475 Bay Street in Staten Island, NY (subject property). Any exceptions to, or deletions from, this practice are described in the limitations sections of this report.

8.1 FINDINGS

The subject property is currently vacant and consists of approximately fifty-four thousand square feet of open space. There are no buildings or significant structures. A wood and steel fence is present in the middle of the site along with a couple of light poles, though there were no light bulbs present in them.

Historic documentation reviewed by URS date back to 1885. According to the information reviewed, the subject property has previously been used as a lumber yard, a coal storage yard, sand and gravel storage yard, and a vehicle storage yard. Most recently, heavy construction equipment had been stored on the site.

No USTs or evidence (fill/vent pipes) associated with former USTs was observed or reported during the site visit and a geophysical survey indicated the presence of subsurface anomalies (buried and surface metal), but did not identify subsurface structures such as tanks or drums. However, historic maps indicated the presence of underground gasoline storage tanks on the western portion of site and northeast corner of site. Also, the historic maps identified site structures as oil and grease storage areas or bins. Based on the results detailed herein, the historical use of the Site is considered a Recognized Environmental Condition (REC) at the subject property.

Additionally, there are a number of off-site properties that are hydraulically upgradient of the subject property. These include a gasoline station at 511 Bay Street that has several closed and open spills, dry cleaners and other historically industrial properties. These sites also represent a REC to the subject property.

Based on the findings of this Phase I ESA, URS recommends a Phase II subsurface investigation for the Site. The Phase II ESA should include the collection and analysis of soil and groundwater in accordance with New York State Department of Environmental Conservation guidelines set forth in 6 NYCRR Part 375 .

8.2 DEVIATIONS

URS' ability to identify past uses of the subject property was limited by the following conditions identified during URS' review of historical resources:

- Individual site features were indiscernible due to the scales of the historic aerial photographs provided by EDR and dense development surrounding the subject property.
- Data gaps of greater than five years were identified in historical information.

During this assessment, URS did not identify other significant data gaps in the reasonably ascertainable information reviewed and described in this report regarding the subject property which would be expected to impact our conclusions. The indiscernible historical resource information is not expected to change the conclusions of this report.

URS did not deviate from the scope of work outlined in URS' proposal to BFC dated March 18, 2013.

8.3 USER OBLIGATION

To receive/maintain liability protections established under the Brownfields Amendments, in addition to conducting AAI, the purchaser has the continued obligation of:

- Complying with land use restrictions and not impeding the effectiveness or integrity of institutional controls;
- Taking steps with respect to hazardous substances affecting a landowner's property to prevent releases;
- Providing cooperation, assistance and access to EPA, a state, or other party conducting response actions or natural resource restoration at the property;
- Complying with CERCLA information requests and administrative subpoenas; and,
- Providing legally required notices.

9.0 QUALIFICATIONS AND SIGNATURES

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 40 CFR Part 312.10.

We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in CFR Part 312 and have performed the Phase I ESA in general conformance with the standards and practices set forth in ASTM E1527-05 subject to the limitations and data gaps as described in this report and authorized scope of work.

This report was prepared and reviewed by:
URS Corporation



Robert Wolff
Principal Environmental Scientist
URS-New York, NY

10.0 REFERENCES

ASTM, 2005. American Society for Testing and Materials (ASTM). Standard E Section, "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," November 2005.

AVT Enterprises, 2000. *Phase I Environmental Site Assessment for 475 Bay Street, Staten Island, NY.* January 12, 2000.

EDR, 2013. The EDR, *Certified Sanborn® Map Report, 475 Bay Street, Staten Island, NY 10301. Inquiry Number: 3568702.3.* April 5, 2013.

EDR, 2013. *The EDR Aerial Photo Decade Package, 475 Bay Street, Staten Island, NY 10301. Inquiry Number: 3568702.5.* April 5, 2013.

EDR, 2013. *The EDR-City Directory Abstract, 475 Bay Street, Staten Island, NY 10301. Inquiry Number: 3568702.6.* April 5, 2013.

EDR, 2013. *Historic Topographic Map Report, 475 Bay Street, Staten Island, NY 10301. Inquiry Number: 35628702.4.* April 5, 2013.

EDR, 2013. *The EDR Radius Map™ Report with GeoCheck®, 475 Bay Street, Staten Island, NY 10301. Inquiry Number: 35628702.2s.* April 5, 2013.

EDR, 2013. *The EDR Environmental LienSearch™ Report, 475 Bay Street, Staten Island, NY 10301. Inquiry Number: 35628702.7.* April 11, 2013.

USGS, 1981. United States Geological Survey (USGS), "*Jersey City, NJ"* 7.5-minute Topographical Map, 1981.

New York City Department of Buildings Property Profile Overview for Block 488, Lot 9. Website accessed April 11, 2012.

FIGURES

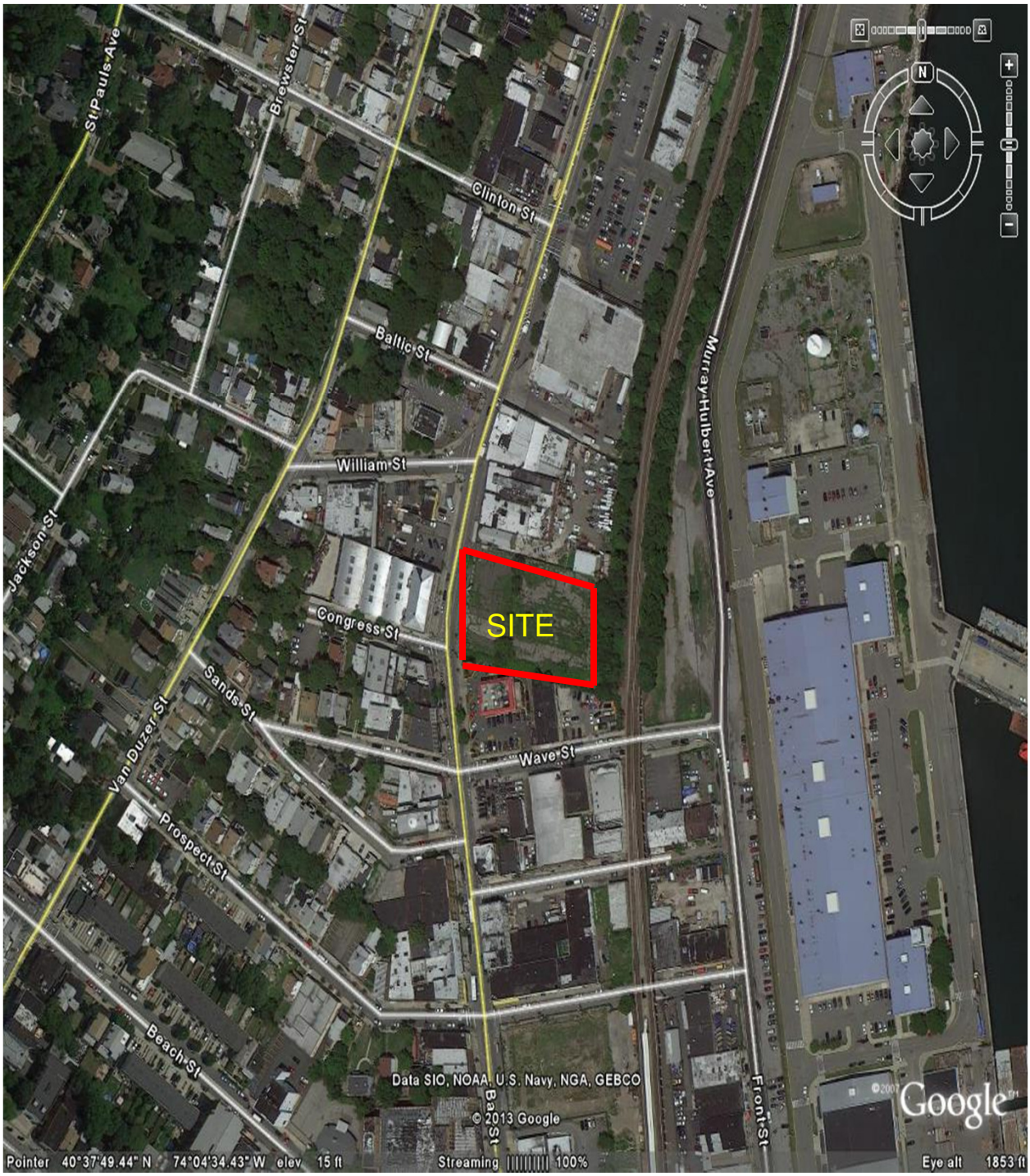


FIGURE 1: SITE VICINITY MAP

URS

Source: USGS Topographic Map 7.5 Minute Series, Jersey City, NJ (Dated 1981, photorevised from 1967)

ADDRESS:	**475 Bay Street**
CITY and COUNTY:	**Richmond County**
STATE and ZIP:	**New York 10301**
URS PROJECT NO.:	**11140223**
DATE:	**April 8, 2013**



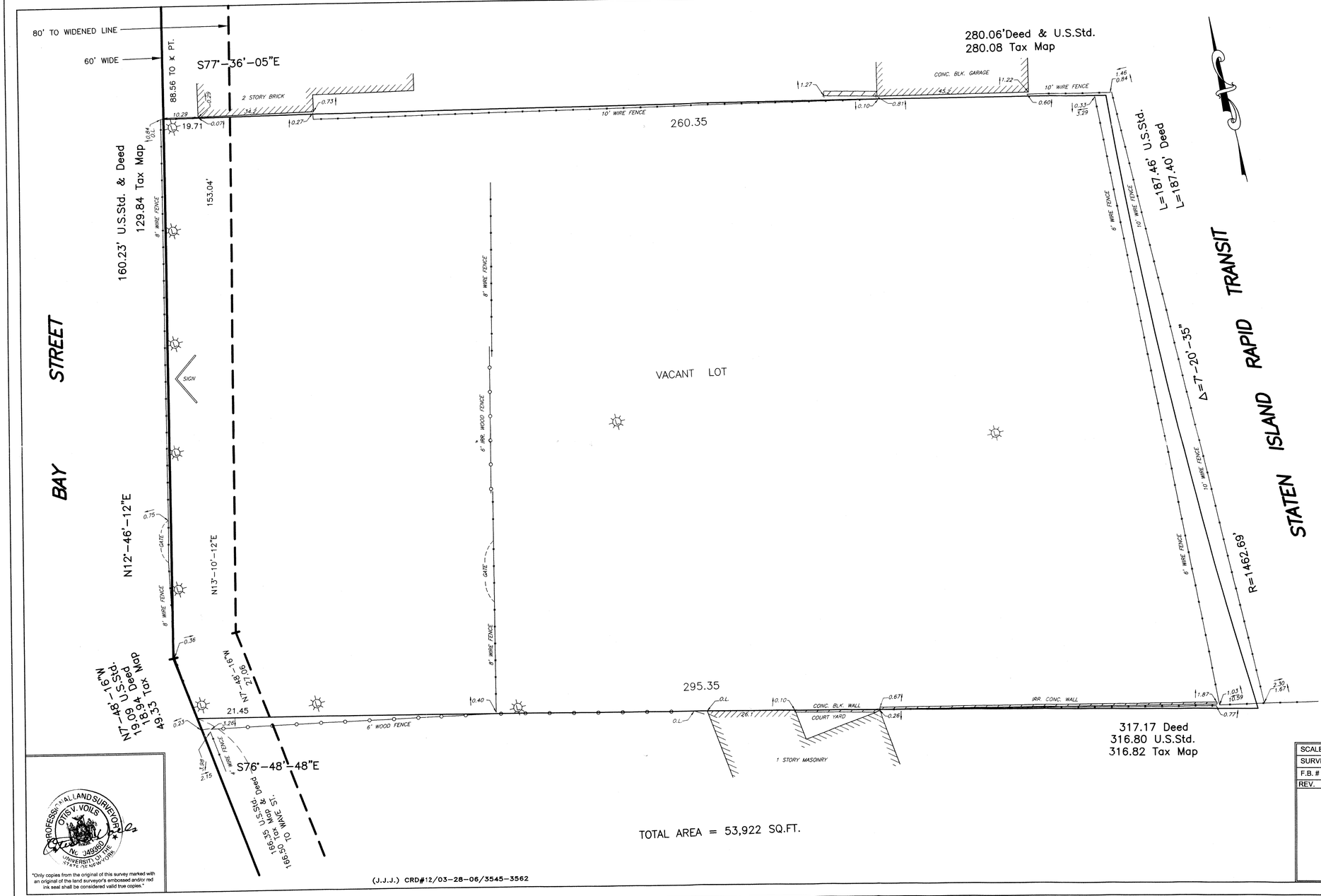
URS

Source: Google Earth

FIGURE 2: SITE LOCATION MAP

ADDRESS:	**475 Bay Street**
CITY and COUNTY:	**Staten Island, Richmond County**
STATE and ZIP:	**New York 10301**
URS PROJECT NO.:	**11140223**
DATE:	**April 8, 2013**

APPENDIX A



LEGEND

LEGAL GRADE	[57.4]
EXISTING ELEVATION	(56.4)
BUILDING	PARTY WALL / INDEPENDENT
WALLS	
FENCE	
SEWER	
WATER	
THEORETICAL CURB LINE	
CATCHBASIN	
FIRE HYDRANT	
VALVE	W / G
TREE TYPE & TRUNK DIAMETER	24" MAP.
CURB & CURB CUT	C.C.
EASEMENT LINE & DIMENSION	40.00
LOT LINE & DIMENSION	40.00
RECORD STREET LINE & DIMENSION	200.00
WIDENING LINE & DIMENSION	100.00
ZONING DISTRICT DIVISION LINE	
MANHOLES	

MISCELLANEOUS

TS	TRAFFIC SIGN		GUY WIRE
PM	PARKING METER		WOOD UTILITY POLE
CC	COAL CHUTE	F	WOOD UTILITY POLE W/ FIRE CALL BOX
G	GAS VENT PIPE	PS	WOOD UTILITY POLE W/ PEDESTRIAN SIGNAL
F	FIRE CALL BOX	T	WOOD UTILITY POLE W/ TRAFFIC SIGNAL
	TRAFFIC CONTROL BOX	TPS	TRAFFIC SIGNAL W/ PEDESTRIAN SIGNAL ON WOOD UTILITY POLE
MB	MAILBOX		STREET LIGHT ON WOOD UTILITY POLE
TEL	PAY PHONE	F	STREET LIGHT & FIRE CALL BOX ON WOOD UTILITY POLE
EB	ELECTRIC BOX	PS	STREET LIGHT & PEDESTRIAN SIGNAL ON WOOD UTILITY POLE
FILL	OIL FILL	T	STREET LIGHT & TRAFFIC SIGNAL ON WOOD UTILITY POLE
	MONUMENT		
	STANDPIPE OR SPRINKLER		
	ROUND DRAIN		
	SQUARE DRAIN		
	SIGN		
1-WAY / 2-WAY	DIRECTION OF TRAFFIC		

S	SEWER
E	ELECTRIC
STM	STEAM
SW	SUBWAY
MH	MANHOLE (NO ID)
(S)	FROM RECORD MAP
W	WATER
G	GAS
F	N.Y.F.D.
T	TELEPHONE
F	BECO or CTES
C	CABLE TV IRON

TPS	STREET LIGHT & TRAFFIC SIGNAL W/ PEDESTRIAN SIGNAL ON WOOD UTILITY POLE
	STREET LIGHT (METAL LIGHT)
PS	STREET LIGHT W/ PEDESTRIAN SIGNAL
T	STREET LIGHT W/ TRAFFIC SIGNAL
TPS	STREET LIGHT & TRAFFIC SIGNAL W/ PEDESTRIAN SIGNAL
T	TRAFFIC SIGNAL
PS	PEDESTRIAN SIGNAL
TPS	TRAFFIC SIGNAL W/ PEDESTRIAN SIGNAL

NOTES:

1.) UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.

2.) ALL SUBSURFACE INFORMATION SHOWN HEREON IS TAKEN FROM VARIOUS MAPS AND UTILITY COMPANIES, AND IS NOT GUARANTEED FOR ACCURACY OR COMPLETENESS BY THE SURVEYOR.

3.) SURVEYOR'S CONTRACTUAL LIABILITY SHALL RUN ONLY TO THOSE PARTIES TO WHOM THIS SURVEY IS CERTIFIED.

4.) ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED VALID TRUE COPIES.

5.) THIS IS TO CERTIFY THAT THERE ARE NO STREAMS OR NATURAL WATERCOURSES ACROSS THE PROPERTY AS SHOWN ON THIS SURVEY.

PROFESSIONAL LAND SURVEYOR
OTIS V. VOILS
LIC. NO. 049881
UNIVERSITY OF THE STATE OF NEW YORK

"Only copies from the original of this survey marked with an original of the land surveyor's embossed and/or red ink seal shall be considered valid true copies."

SCALE: 1" = 15'	TAX MAP INFORMATION: SEC. 3 VOL. 1	BOROUGH OF STATEN ISLAND
SURVEY # 38544-F	BLOCK 488 LOT 9	CITY OF NEW YORK
F.B. # 121815 D.C.	FILED MAP INFORMATION	SURVEYED: MARCH 28, 2006
REV. DESCRIPTION F.B.		WOHL & O'MARA, L.L.P.
	FINAL ELEVATIONS SHOWN THUS: [ ] EXISTING ELEVATIONS SHOWN THUS:( )	CIVIL ENGINEERS AND LAND SURVEYORS
	ELEVATIONS REFER TO RICHMOND HIGH WATER DATUM.	544 VANDERBILT AVENUE
	COORDINATES AND BEARINGS ARE IN A SYSTEM ESTABLISHED BY THE USC & GS FOR THE BOROUGH OF RICHMOND	S.I., N.Y. 10304 718-448-7456
		FOUNDATION LOCATED:
		FINAL LOCATION:
		THIS SURVEY IS CERTIFIED TO

APPENDIX B

E 1527 – 05
USER QUESTIONNAIRE

INTRODUCTION

To qualify for one of the *Landowner Liability Protections (LLPs)*[1] offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments*"),[2] the *user* must provide the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that "*all appropriate inquiry*" is not complete.

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).

Are you aware of any environmental cleanup liens against the *property* that are filed or recorded under federal, tribal, state or local law?

*Response:*_____

(2.) Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).

Are you aware of any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

*Response:*_____

(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).

As the *user* of this *ESA* 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?

*Response:*_____

(4.) Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29).

Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*? 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*?

*Response:*_____

---

1 Landowner Liability Protections, or LLPs, is the term used to describe the three types of potential defenses to Superfund liability in EPA's Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability ("Common Elements" Guide) issued on March 6, 2003.

2 P.L. 107-118

(5.) Commonly 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*?

*Response:*_____

(b.) Do you know of specific chemicals that are present or once were present at the property?

*Response:*_____

(c.) Do you know of spills or other chemical releases that have taken place at the property?

*Response:*_____

(d.) Do you know of any environmental cleanups that have taken place at the *property*?

*Response:*_____

(6.) The degree of obviousness of the presence of likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

As the *user* of this *ESA*, based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property*?

*Response:*_____

APPENDIX C

BFC Parking Lot
475 Bay Street
Staten Island, NY

Inquiry Number: 3568702.7
April 11, 2013

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

BFC Parking Lot
475 Bay Street
Staten Island, NY

RESEARCH SOURCE

Source 1: Richmond City Register
Source 2: Richmond County Clerk
Source 3: Richmond Department of Finance

DEED INFORMATION

Deed 1:

Type of Deed: Bargain and Sale Deed
Grantor: Bruno Guarano, as surviving spouse, Peter Dipietro and Thomas Dipietro
Grantee: Kathleen Rampual
Deed Recorded: 08/18/2000
Instrument: Book 10496, Page 84

LEGAL DESCRIPTION

Lot 9, Block 488, also commonly known as 475 Bay Street, situated and lying in the City of Staten Island, Richmond County, State of New York

Property Identifier: Block 488 Lot 9

ENVIRONMENTAL LIEN

Found: ☐ Not Found: ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Found: ☐ Not Found: ☒

EDR Environmental LienSearch™ Report

Deed - Exhibit

Standard N.Y.B.T.U. Form 8002 - Bargain and Sale Deed, with Covenant against Grantor's Acts - Individual or Corporation

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT – THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY.

THIS INDENTURE, made the 15th day of June Two Thousand

BETWEEN

BRUNO GUARANO, as surviving spouse, PETER DIPIETRO, and THOMAS DIPIETRO, having an address at 91 Shell Avenue, Milford, Connecticut 06460

party of the first part, and

KATHLEEN RAMPAUL, having an address at One Hylan Boulevard, Staten Island, New York 10305

party of the second part,

WITNESSETH, that the party of the first part, in consideration of Ten Dollars and other valuable consideration 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 Schedule A attached.

BEING the same premises conveyed to the grantors herein and Faye Guarano who died on December 25, 1994in the State of N.Jersey by Deed dated August 21, 1986 and recorded September 5, 1986 in the Office of the Clerk of Richmond County in Reel 70, page 2413 and which Deed was erroneously recorded in Block 509, Lot 4 and BEING the same premises conveyed to Bruno Guarano and Faye Guarano, his wife, by Deed dated October 14, 1977 and recorded on November 4, 1977 in the Office of the Clerk of Richmond County in Liber 2222, page 427.

REEL 0496 PAGE 084

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" whenever 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:

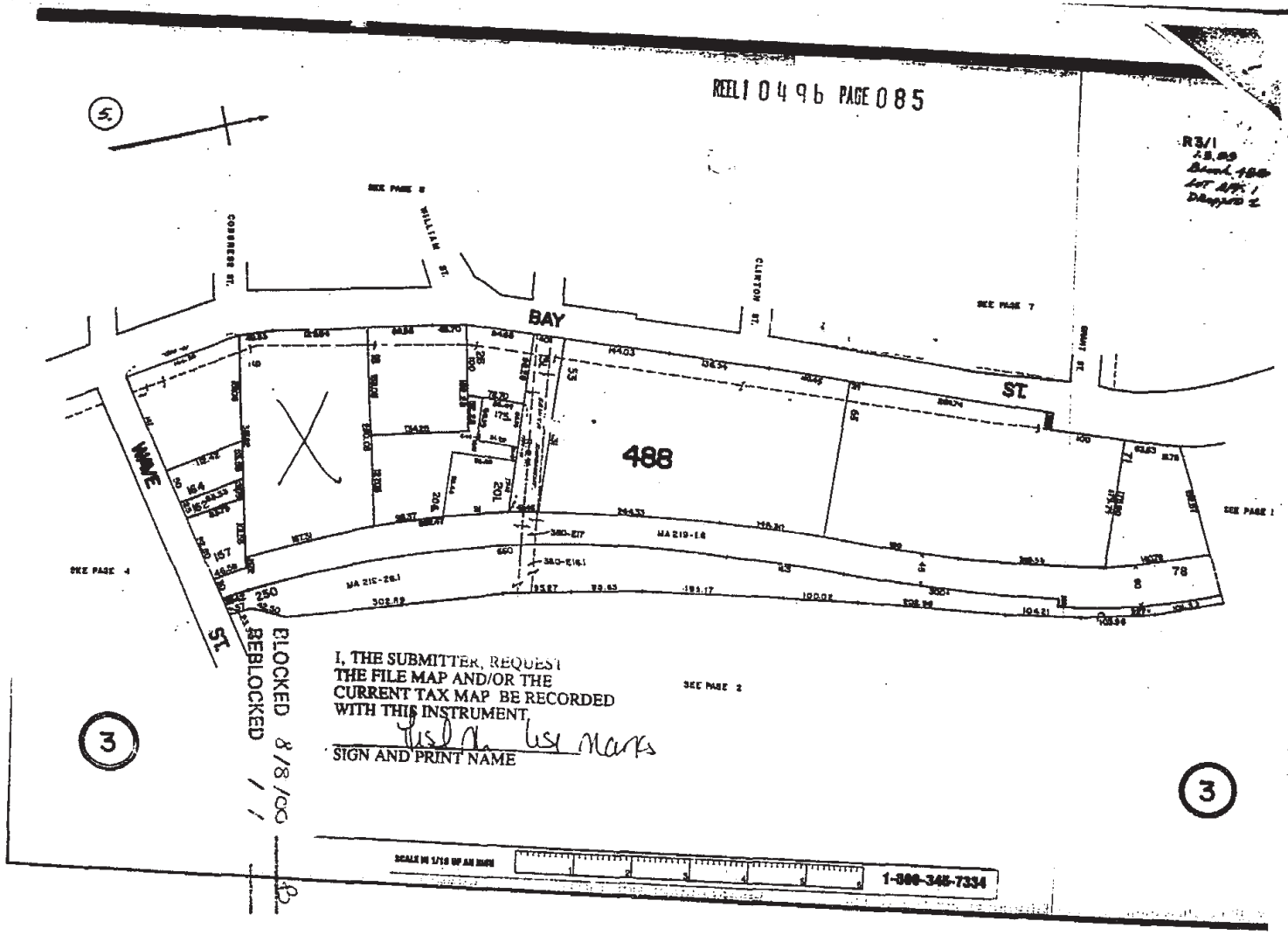
Bruno Guarano
BRUNO GUARANO

PETER DIPIETRO

THOMAS DIPIETRO

Richmond County Clerk
DOCUMENT RECEIVED
DATE 7/25/00
RESUBMITTED

REEL 1049b PAGE 085



I, THE SUBMITTER, REQUEST THE FILE MAP AND/OR THE CURRENT TAX MAP BE RECORDED WITH THIS INSTRUMENT.

Lisa M. Lee Marks

SIGN AND PRINT NAME

RECEIVED
$ 2720.-
REAL ESTATE
TRANSFER TAX
RICHMOND
COUNTY

State of New York, County of Richmond ss:

On the 6 day of June, 2000, before me, the undersigned, a Notary Public in and for said State, personally appeared Bruno Guarano, Peter DiPietro and Thomas DiPietro 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.

Notary Public-
MARC A. BERK
Notary Public, State of New York
No. 01BE4908343
Qualified in Richmond County
Commission Expires October 19, 2001

REEL 0496 PAGE 086

BL 8/8/00
DES
MAIL

RBL
TM
MSC

BARGAIN AND SALE DEED
WITH COVENANT AGAINST GRANTOR'S ACTS

Title No. Fidelity National #7118 (Rampaul)

BRUNO GUARANO, PETER DIPIETRO
and THOMAS DIPIETRO
TO

KATHLEEN RAMPAUL

Section
Block 488
Lot 9
County or Town Richmond

Premises: 438 Bay St, SINY

RETURN BY MAIL TO:

Jeffrey E. Tomei, P.C.
2071 T Clove Road
Staten Island, NY 10301

RECORDED IN RICHMOND COUNTY
AUG 18 2000
Mario J. Esposito
COUNTY CLERK

DOCUMENT # 8187
RECEIPT: 44696 FEE: $51.00
08/18/2000 10:28:42 A.M.
RICHMOND COUNTY CLERK
SHEET: 498 $2,720.00

Book RESURVEY

EDR Environmental LienSearch™ Report

Property Profile - Exhibit

NYC Buildings

NYC.gov always open

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Property Profile Overview

475 BAY STREET
BAY STREET 471 - 483

STATEN ISLAND 10304
Health Area : 500
Census Tract : 21
Community Board : 501

BIN# 5801875
Tax Block : 488
Tax Lot : 9
Condo : NO
Vacant : YES

View DCP Addresses... Browse Block

View Zoning Documents | View Challenge Results | View Certificates of Occupancy

Cross Street(s):	WILLIAM STREET, CONGRESS STREET		
DOB Special Place Name:			
DOB Building Remarks:			
Landmark Status:		**Special Status:**	N/A
Local Law:	NO	**Loft Law:**	NO
SRO Restricted:	NO	**TA Restricted:**	NO
UB Restricted:	NO		
Little 'E' Restricted:	N/A	**Grandfathered Sign:**	NO
Legal Adult Use:	NO	**City Owned:**	NO
Additional BINs for Building:	NONE		

Special District: UNKNOWN

This property is not located in an area that may be affected by Tidal Wetlands, Freshwater Wetlands, or Coastal Erosion Hazard Area. Click here for more information

Department of Finance Building Classification: V1-VACANT LAND

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	1	0
Violations-ECB (DOB)	0	0
Jobs/Filings	0	
ARA / LAA Jobs	0	
Total Jobs	0	
Actions	18	

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

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.

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NYC Department of Buildings

ECB Query By Location

Page: 1 of 1

Premises: **BIN:** **Block:** **Lot:** **CB:**

Dept. of Buildings Violations & Compliance	
Total Issued = 32	Open (Non-Compliance) = 24

ECB Hearings	
Completed / Defaulted = 28	Pending = 4

ECB Number	Dept. of Buildings Violation Status	Respondent	ECB Hearing Status	Viol Date	Infraction Codes	ECB Penalty Due
34269360R	OPEN - NO COMPLIANCE RECORDED **Severity:** NON-HAZARDOUS	PALERMD CONSTRUCTION CORP	IN VIOLATION	01/10/2001 **Viol Type:** CONSTRUCTION	B05	$0.00
34319852X	OPEN - NO COMPLIANCE RECORDED **Severity:** HAZARDOUS	TROMBINO MARC	IN VIOLATION	07/05/2002 **Viol Type:** CONSTRUCTION	B7A	$0.00
34782180R	OPEN - NO COMPLIANCE RECORDED **Severity:** CLASS - 2	AL EMPIRE CONST LLC GC37123 **Inspect Unit:** EXCAVATION UNIT	DEFAULT	06/09/2009 **Viol Type:** CONSTRUCTION	209	$0.00
34269359J	OPEN - NO COMPLIANCE RECORDED **Severity:** NON-HAZARDOUS	PALERMD CONSTRUCTION CORP	STIPULATION/IN-VIO	01/10/2001 **Viol Type:** CONSTRUCTION	B05	$0.00
34384282Y	OPEN - NO COMPLIANCE RECORDED **Severity:** NON-HAZARDOUS	RDDN REALTY CORP **Inspect Unit:** SPECIAL OPERATIONS	IN VIOLATION	04/09/2003 **Viol Type:** SIGNS	K3T	$0.00
34384279N	OPEN - NO COMPLIANCE RECORDED **Severity:** NON-HAZARDOUS	RDDM REALTY CORP **Inspect Unit:** SPECIAL OPERATIONS	IN VIOLATION	04/09/2003 **Viol Type:** SIGNS	K4S	$0.00
34384280K	OPEN - NO COMPLIANCE RECORDED **Severity:** NON-HAZARDOUS	RDDM REALTY CORP **Inspect Unit:** SPECIAL OPERATIONS	IN VIOLATION	04/09/2003 **Viol Type:** SIGNS	K3A	$0.00
34384281M	OPEN - NO COMPLIANCE RECORDED **Severity:** NON-HAZARDOUS	RDDM REALTY CORP **Inspect Unit:** SPECIAL OPERATIONS	IN VIOLATION	04/09/2003 **Viol Type:** SIGNS	K3B	$0.00
34738679H	OPEN - NO COMPLIANCE RECORDED **Severity:** CLASS - 3	VINCENT DE SALVO CONTRACT **Inspect Unit:** STATEN ISLAND CONSTRUCTION	IN VIOLATION	02/05/2009 **Viol Type:** CONSTRUCTION	383	$0.00
34494244K	OPEN - NO COMPLIANCE RECORDED **Severity:** HAZARDOUS	SLATER REALTY INC **Inspect Unit:** STATEN ISLAND CONSTRUCTION	DEFAULT	01/25/2006 **Viol Type:** SITE SAFETY	B3C	$5,000.00
34771831H	OPEN - NO COMPLIANCE	A+R ELECTRICAL	IN VIOLATION	08/13/2009	206	$400.00

	RECORDED **Severity:** CLASS - 2	CONTRACTIN GC27770 **Inspect Unit:** STATEN ISLAND CONSTRUCTION				
34782244R	OPEN - NO COMPLIANCE RECORDED **Severity:** CLASS - 2	3584 CONST CORP GC24378 **Inspect Unit:** EXCAVATION UNIT	IN VIOLATION	05/26/2009	206	$0.00
34921538J	OPEN - NO COMPLIANCE RECORDED **Severity:** CLASS - 2	ST.MARKS REALTY LLC **Inspect Unit:** STALLED SITES	DEFAULT	12/07/2011	207 **Viol Type:** CONSTRUCTION	$4,000.00
34771832J	OPEN - CERTIFICATE PENDING **Severity:** CLASS - 2	A+R ELECTRICAL CONTRACTIN GC27770 **Inspect Unit:** STATEN ISLAND CONSTRUCTION	IN VIOLATION	08/13/2009	211 **Viol Type:** CONSTRUCTION	$800.00
35000002L	OPEN - NO COMPLIANCE RECORDED **Severity:** CLASS - 2	ST MARKS HOMES REALTY OWN **Inspect Unit:** STALLED SITES	PENDING	03/22/2013	207 **Viol Type:** CONSTRUCTION	$0.00
34935377P	OPEN - NO COMPLIANCE RECORDED **Severity:** CLASS - 2	ST. MARKS HOMES REATLY OW **Inspect Unit:** STALLED SITES	DEFAULT	04/12/2012	207 **Viol Type:** CONSTRUCTION	$4,000.00
34982840J	OPEN - NO COMPLIANCE RECORDED **Severity:** CLASS - 2	ST. MARKS HM. REALTY OWNE **Inspect Unit:** EXCAVATION UNIT	DEFAULT	12/12/2012	207 **Viol Type:** CONSTRUCTION	$4,000.00
34982843P	OPEN - NO COMPLIANCE RECORDED **Severity:** CLASS - 2	JOSEPH ROSS INC OWNER **Inspect Unit:** STALLED SITES	DEFAULT	12/12/2012	207 **Viol Type:** CONSTRUCTION	$4,000.00
34911683R	OPEN - NO COMPLIANCE RECORDED **Severity:** CLASS - 2	FAM BUSINESS CORP **Inspect Unit:** STATEN ISLAND CONSTRUCTION	DEFAULT	07/18/2011	208 **Viol Type:** CONSTRUCTION	$2,500.00
35012863L	OPEN - NO COMPLIANCE RECORDED **Severity:** CLASS - 1	DELTAMER INC GC65664 **Inspect Unit:** BEST SQUAD	PENDING	03/28/2013	109 **Viol Type:** CONSTRUCTION	$0.00
35012864N	OPEN - NO COMPLIANCE RECORDED **Severity:** CLASS - 1	DELTAMER,INC GC65664 **Inspect Unit:** BEST SQUAD	PENDING	03/28/2013	106	$0.00
35012865P	OPEN - NO COMPLIANCE RECORDED **Severity:** CLASS - 2	DELTAMER,INC GC65664 **Inspect Unit:** BEST SQUAD	PENDING	03/28/2013	282 **Viol Type:** CONSTRUCTION	$0.00
34935969Z	OPEN - NO COMPLIANCE RECORDED **Severity:** CLASS - 2	ELIZABETH OVILI **Inspect Unit:** STATEN ISLAND CONSTRUCTION	DEFAULT	05/10/2012	201	$4,000.00
34935970X	OPEN - NO COMPLIANCE RECORDED **Severity:** CLASS - 1	ELIZABETH OVILI **Inspect Unit:** STATEN ISLAND CONSTRUCTION	DEFAULT	05/10/2012	103 **Viol Type:** CONSTRUCTION	$12,000.00
34256590J	RESOLVED - N/A - DISMISSED	MUSTO ARTHUR	DISMISSED	02/06/2001	B07	$0.00

	Severity: NON-HAZARDOUS			**Viol Type:** CONSTRUCTION		
34782243P	RESOLVED - CURE ACCEPTED	3584 CONST CORP GC24378	CURED/IN-VIO	05/26/2009	212	$0.00
	Severity: CLASS - 2	**Inspect Unit:** EXCAVATION UNIT		**Viol Type:** CONSTRUCTION		
34384278L	RESOLVED - N/A - DISMISSED	RDDM REALTY CORP	DISMISSED	04/09/2003	K1A	$0.00
	Severity: NON-HAZARDOUS	**Inspect Unit:** SPECIAL OPERATIONS		**Viol Type:** SIGNS		
34395464Z	RESOLVED - CURE ACCEPTED	CAPITAL CONTACTING PLM &	CURED/IN-VIO	06/16/2003	B05	$0.00
	Severity: NON-HAZARDOUS	**Inspect Unit:** BEST SQUAD		**Viol Type:** CONSTRUCTION		
34384283X	RESOLVED - N/A - DISMISSED	RDDM REALTY CORP,	DISMISSED	04/09/2003	BP5	$0.00
	Severity: NON-HAZARDOUS	**Inspect Unit:** SPECIAL OPERATIONS		**Viol Type:** HPD		
34471982K	RESOLVED - N/A - DISMISSED	DE LASSE MAXIMILIAM	DISMISSED	05/06/2005	B5C	$0.00
	Severity: NON-HAZARDOUS	**Inspect Unit:** STATEN ISLAND CONSTRUCTION		**Viol Type:** CONSTRUCTION		
34494168H	RESOLVED - N/A - DISMISSED	VLASTAKIS STEVE	DISMISSED	01/18/2006	B47	$0.00
	Severity: NON-HAZARDOUS	**Inspect Unit:** STATEN ISLAND CONSTRUCTION		**Viol Type:** CONSTRUCTION		
34948523R	RESOLVED - N/A - DISMISSED	BNB ESTATE HOLDING LLC	DISMISSED	07/03/2012	187	$0.00
	Severity: CLASS - 1	**Inspect Unit:** EXCAVATION UNIT				

Compliance Status (Open/Resolved) relates to whether a violation has been corrected/uncorrected. Dismissed violations do not require filing a Certificate of Correction.

ECB Hearing Status and the **ECB Penalty Due** are separate from **Compliance Status** (i.e. a penalty is still due in many cases even when the violating condition has been fixed).

Severity Class	
Class 1 - Immediately Hazardous	HAZ - Hazardous - 1968 Building Code
Class 2 - Major	NON-HAZ - Non-hazardous - 1968 Building Code
Class 3 - Lesser	

Violation Status Descriptions	**ECB Hearing Status**
OPEN - No Compliance Recorded	CURED/IN-VIO - In Violation/no hearing required
OPEN - Certificate Pending (Certificate of Correction submitted and under review)	STIPULATION/IN-VIO - No hearing required/in violation
OPEN - Certificate Disapproved (Certificate of Correction disapproved/not in compliance)	IN VIOLATION - Hearing decision completed
RESOLVED - N/A-Dismissed (at ECB - no Certificate of Correction required)	DISMISSED - Hearing decision completed
RESOLVED - Certificate Accepted (Certification of Correction Accepted/in compliance)	DEFAULT - Respondent failed to appear at hearing
RESOLVED - Cure Accepted (early correction accepted - in violation/no penalty or hearing)	PUBLICLY-OWNED - No hearing required
RESOLVED - Compliance Insp/Doc (condition verified by Inspector or by Dept. documentation)	PENDING - Awaiting ECB hearing or decision
	ADMIT/IN-VIO - In Violation/no hearing required
	WRITTEN OFF - Imposed penalty legally uncollectable

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.

APPENDIX D

AVT ENTERPRISES
ENGINEERS & CONSULTANTS (718) 921-0430

Phase I Environmental Assessment
for
475 Bay Street, AKA Block 488 Lot 9
Staten Island, New York 10304
Inspection 20011005

Prepared by:

AVT ENTERPRISES
PO Box 280-291
Brooklyn, New York 11228
(718) 921-0430



AVT ENTERPRISES

ENGINEERS & CONSULTANTS (718) 921-0430

Executive Summary

January 12, 2000

On January 6, 2000, AVT Enterprises initiated a Phase I Environmental Site Assessment at 475 Bay Street in Staten Island, New York. The work was done at the request of Mervin Rampaul a prospective buyer for the property.

AVT conducts their Phase One Assessments in accordance with recommendations of the ASTM Practice E 1527-97.

Site inspection was conducted on January 6, 2000 by Mr. Joseph A. Pasaturo of AVT. He was met at the property and accompanied by Mr. Rampaul, the properties prospective buyer, areas inspected included:

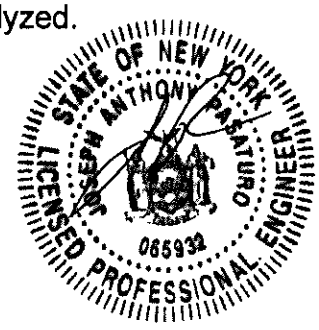
- The entire fenced in area of the property

Findings:

The history of the subject property on the 1934 Sanborn map shows the subject property as the Chas F. McAteer Inc. Coal Yard. The map also indicates a filling station with tanks and pumps on the yard whose fate is unknown. Adjoining properties and proximate sites also show a history of industrial use. The uses predate any regulatory controls and represent sources of possible contamination.

Recommendations:

The property should be first surveyed with a magnetometer to locate any buried tanks or similar anomalies (i.e. buried drums, conduits, or drywells). In addition, sufficient soil borings down to a depth of about 20 feet should be taken and analyzed with a Photo-Ionization Detector (PID). Composites of the various samples can be made and should be submitted for laboratory analysis for Priority Pollutants+40 (PP+40), Total Petroleum Hydrocarbons (TPH) and PCBs'. If the water table is encountered then aqueous samples should be taken and also analyzed.



Joseph A. Pasaturo PE
President & Chief Engineer
AVT Enterprises

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1. Introduction

1.1. Purpose

Provide Phase I Environmental Site Assessment (ESA) for a client to satisfy the requirement for "appropriate inquiry" to qualify for the innocent landowner defense to CERCLA liability. The ESA seeks to determine if there is cause for environmental concern over liability or contamination from past or current activity. The ESA is performed to identify Recognized Environmental Conditions (REC). The term Recognized Environmental Condition means the presence or likely presence of any hazardous substances or petroleum products on a property, under conditions that indicate an existing release, a past release or material threat of a release of any hazardous substance or petroleum products into structures on the property, into the ground, groundwater or surface water on the property. The term is not intended to include de minims conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be subject of an enforcement action if brought to the attention of the appropriate governmental agencies. The survey is performed voluntarily (not in response to regulatory inquiry) and consists of historical research, permitting and violations inquiry, and site reconnaissance. Appropriate documents will be examined at least back to January 1, 1940 where possible and appropriate as defined by ASTM E 1527-97.

1.2. Limitations and Exceptions of Assessment

ESA does not attempt to quantify contamination or to design remediation. Sampling may be recommended as ***addenda*** to the ESA if materials or processes currently or previously related to the site indicate need for further investigation. Contamination to and from proximate areas is also an issue addressed in this report. Extensive sampling is *not* within the scope of work although cursory sampling may be included if requested and approved by the client and provider of this report. Non-scope items as defined by ASTM E 1527-97 while possibly mentioned and discussed as additional information are not covered by this report as they are not required to satisfy the innocent landowner defense requirements to CERCLA liability. These substances which may be present on the property in quantities that may lead to contamination of the property or of nearby properties but are not included in CERCLA's definition of hazardous substances or do not otherwise present potential CERCLA liability. In general this ESA is valid for a period of six months of the date of this report and should not be relied upon beyond that period without consultation and follow up with AVT Enterprises.

1.3. Limiting Conditions and Statement of Limitations of Liability

Processes involved in preliminary site assessments include a collection of documentation in the public domain and information derived from personal interviews. No further warranty is made regarding the accuracy of these sources. AVT performed investigations and assessments using accepted trade practices. All information has been presented with full disclosure exercising best efforts to ascertain past, present and future risks of environmental contamination and liability within the scope of "appropriate inquiry" and "reasonably ascertainable" within the time allowed for delivery of the report by the client. The time frame stated by the client for delivery of this report was 3 weeks. No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. Performance of this practice is intended to reduce, but not to eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property. The ESA recognizes reasonable limits of time and cost.

This report was prepared solely for the use of the client stated in the report. Reliance of this report by anyone other than the stated client is prohibited without the express written consent of duly authorized representatives of AVT Enterprises.

It is understood and agreed that AVT Enterprises is not an insurer and that the ESA and report are not intended to be construed as a guarantee or warranty expressed or implied that the subject property is completely free of hazardous substances or other materials or conditions that could subject the client to potential liability. The presence or absence of any such condition can only be confirmed through the collection and analysis of soil and groundwater samples, as well as testing relevant materials for various suspect contaminants. This testing is beyond the scope of this investigation. In the event that the AVT Enterprises and or its agents are found liable due to breach of contract, breach of warranty, negligence, negligent misrepresentation, negligent hiring or any other theory of liability, then the liability of AVT Enterprises and its agents and employees shall be limited to a sum equal to the fee paid to AVT Enterprises for the ESA.

2. Site Description

2.1. Location and Legal Descriptions

Geographic location	The property is located approximately at the intersection of N40.6303 and W74.0777	
Site Address	475 Bay Street Staten Island, New York 10304	
Block and Lot	Block 488 Lot 9	

2.2. Site and Vicinity Characteristics

This property is in an urban area with relatively little vegetation. The property is set in a mixed industrial and commercial neighborhood with some scattered housing. The property is basically rectangular. It is approximately 275 feet deep by 180 feet wide. It is on the East side of Bay Street, between William Street and Wave Street in the borough of Staten Island.

2.3. Descriptions of Structures, Roads and Other On-Site Improvements

The property is a vacant lot covered with an asphalt black top which is highly damaged. There are no structures located on the property and it is surrounded by a chain link fence on three sides. The front of the property is open to the street.

The City of New York supplies water and sewer services to the property. Con Edison supplies electric service and Brooklyn Union supplies gas. There are currently no active utility services on the property.

2.4. Current Use of Property

The property is currently vacant. Anecdotal information indicates that one of its prior uses was as a lot to store new cars for a local dealership.

2.5. Current Use of Adjoining Properties

The proximate buildings are light industrial and commercial.

Adjoining North:	Commercial mixed use building (Dry cleaners, Window manufacturer, Water craft dealer)
Adjoining South:	Auto repair shop and a McDonald's Restaurant
Adjoining East:	Train tracks (Staten Island Rapid Transit)
Adjoining West:	Bay Street (Plumbing supply across Street)

2.6. Site Geology, Hydrology and Topography

The subject property is approximately 25 feet above sea level. Surrounding areas pitch down to the East.

3 Site History

3.1. City Directory and Municipal Document Review

A NYC Building Department Property Profile Overview shows no open violation on the subject property. City Directories were reviewed within the scope of this report and are not specific for the subject property. Surrounding properties are a mix of non-specific commercial and industrial businesses.

3.2. Sanborn Fire Insurance Map Review

This historical map series dates back to the late 1800s and is still in business. The company began as a fire insurance resource, mapping structures and prominent property features. The maps have been periodically updated so as to provide a picture of historical evolution for an area or a specific property.

The series for 255 47th Street includes maps from 1898, 1937 1950, 1977, 1981, 1991 to 1996.

The 1898 map shows the subject property as the James Thompson and Sons Lumber Yard. Surrounding properties are primarily commercial and industrial properties. The G. Barth Coal Yard is adjoining the subject property to the East.

The 1937 maps shows the area significantly more developed. The subject property is now the Chas F. McAteer Inc. Coal Yard. Surrounding properties are primarily industrial with a commercial laundry facility adjoining the property to the North & lumber yard and car painting shop adjoining the property to the South.

The 1950 map shows the subject property as the J.T. Montesani Sand and Gravel Co. Very little change has taken place to the surrounding properties.

The maps from 1977 and on show the subject property as it is today, vacant. The are indications that a local car dealer was storing cars on the property. Surrounding properties are still a mix or commercial and industrial uses.

3.3. Past Use of Adjoining Properties

According to the Sanborn Maps and anecdotal information the surrounding properties have historically, industrial and commercial facilities. Several of the prior uses have can present recognized environmental conditions.

4. Records Review

4.1. Federal and State Database Review

Environmental Impact Area Map and Statistical Profile:

The Environmental Impact Area Maps, supplied by EDR show the area studied within varied radii of the target site, depending on the hazard being investigated. The maps show properties in the studied area that have been found in any of the federal data bases searched. Copies of the maps are included in the Reference Section.

National Priorities List (NPL):

The NPL, also known as the Superfund List, is an EPA listing of uncontrolled or abandoned hazardous waste sites. The list is primarily based on a score that the site receives from the EPA's Hazardous Ranking System. These sites are targeted for possible long-term remedial action under the Superfund Act. **No sites are identified within the target radius**.

Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS):

The CERCLIS list is a compilation by the EPA, of known or suspect uncontrolled or abandoned hazardous waste sites, which the EPA has investigated, or is currently investigating for release or threatened release of hazardous substances pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (Superfund Act). Once a site enters CERCLIS, it may be subjected to several levels of review and evaluation, and ultimately placed on the NPL. While the EPA has determined that some CERCLIS sites require no action, others could well pose a real or perceived environmental threat to neighboring properties, thus impacting their value. **No sites or conditions were identified that would currently impact the subject property.**

State Hazardous Waste Sites are the State equivalent of CERCLIS and may or may not list site identified by the CERCLIS system. Data is reported by the New York State Department of Environmental Conservation. **No sites or conditions were identified that would currently impact the subject property.**

Toxic Release Inventory (TRI):

The TRI contains information on the annual estimated release of toxic chemicals to the environment by a certain property. This includes the maximum amount stored on site, the estimated quantity emitted into the air, discharged into bodies of water, injected underground, or released to land; methods used in waste treatment, and data on the transfer of chemicals off-site. **No sites or conditions were identified within the target radius that would currently impact the subject property.**

Resource Conservation and Recovery Act (RCRA):

The EPA's RCRA Database identifies and tracks hazardous waste from the point of generation to the point of disposal. Sites listed in the RCRA Database are those which comply with the regulations stipulated in the Resource Conservation and Recovery Act. The Non-Compliance RCRA Database is a list of those sites that have failed to file notification forms with the EPA in accordance with RCRA regarding the generation, storage, transportation, treatment, or disposal of hazardous waste. **Eight sites were identified within the 1/4 mile radius. There is a commercial dry cleaning plant adjoining the subject property.**

Emergency Response Notification System (ERNS):

The Emergency Response Notification system (ERNS) is a national computer database and retrieval system used to store information on the release of oil and hazardous substances. ERNS consists of release notifications submitted to the National Response Center, of the US Coast Guard, since 1987. The information it provides includes reported discharges, date of release, material releases, causes of releases, damage or injuries involved, quantity released, source of release, incident location, response actions taken, authorities notified, and affected environmental medium. **No sites or conditions were identified within the target radius that would currently impact the subject property.**

Nuclear Facilities (NuFac.):

Contains the facility name, location and county location in the state. **No sites or conditions were identified within the target radius that would currently impact the subject property.**

Open Dumps (OD):

Any facility or site where solid waste is disposed of, which is not a sanitary landfill that meets the criteria for classification of a Solid Waste Disposal Facility. Listed sites are not facilities for disposal of hazardous waste. **No sites or conditions were identified within the target radius that would currently impact the subject property.**

Chemical and Petroleum Bulk Storage (PBS):

The NYS DEC and local fire department records are searched for any evidence of prior or current bulk storage tanks. This includes all tanks of any capacity regulated by the fire department. In addition, the database that contains reported Leaking Underground Storage Tanks (LUST) is searched. **Twenty five sites have reported leaking underground tanks within a ½ mile radius of the subject property. Three of the sites are located within 1/8 of a mile. The identified sites or conditions should not be an impact on the subject property.**

Landfills (LF):

Disposal facilities where potentially hazardous substances are stored or treated. **No sites or conditions were identified within the target radius that would currently impact the subject property.**

Hazardous Substance Waste Disposal Site Inventory (HSWDS):

The HSWDS Inventory includes any known or suspected hazardous substance waste disposal sites. Included also are sites de-listed from the registry and non-registered sites which the U.S. EPA Preliminary Assessment reports or site investigation reports are being prepared. **There is one site located within a ½ mile of the subject property. The site should not impact the subject property.**

Regulatory Permitting and Violations Abstract (Federal and State)

	Target Site	Adjacent Sites	Neighboring Sites
NPL	None	None	None
CERCLIS	None	None	None
SHWS			None
TRI	None	None	See CER
RCRA	None.	None	2 small sites and 6 large within ¼ mile
ERNS	None	None	None
NuFac.	None	None	None
OD	None	None.	See CER
PBS (UST)	None	None	None >400,000 Gallons
PBS (UST)	None	None	<400,000 Gallons 7 USTs within ¼ mile
PBS (AST)	None		
FINDS			
LF	No	None	None
Spills	See CER		
LUST	None	None	25 sites within ½ mile no soil or water impact to subject prop.
CSF	None	None	None

CER = Computerized Environmental Report (Reference, Section 8).

5. Site Reconnaissance and Interviews

Relevant Inspection Data

Site inspection was performed by Mr. Joseph A. Pasaturo P.E. of AVT Enterprises, on January 6, 2000. He was met at the building and accompanied by, Mr. Mervin Rampaul, the prospective purchaser of the building.

Weather

On the day of the inspection, it was 40 degrees and sunny.

Scope of Inspection

The inspection included a neighborhood assessment, including the use of the surrounding areas and basic geographic features. The grounds were surveyed and site drainage and vegetation inspected.

5.1. Building Interior

The property is completely vacant no buildings are on the subject property.

5.2. Building Exterior

Not applicable

5.3. Hazardous Substance Storage

There were no hazardous materials in evidence at the time of inspection. There were no signs of distressed vegetation or signs of dumping noted on the property.

5.4. Storage Tanks

While no evidence was noted at the site. Sanborn maps indicated that a filling station with possible underground tanks exists on the property. Indications are that the tanks are located at the bay street side of the property. The disposition of the suspected tanks is unknown.

5.5. Indications of PCBs

There were no indications of PCBs. The Staten Island Rapid Transit runs along the rear of the subject property. Equipment used in the past associated with the transit system was known to contain high levels of PCB's. This report cannot quantify or qualify these materials, but are since under strict governmental control. Inquiries can be made to the NYC Transit Authority if so desired.

5.6. Indications of Solid Waste Disposal

None.

5.7. Asbestos Containing Materials

The assessment is limited to observations made on exposed, friable, suspect asbestos-containing materials only and it is possible that asbestos is present behind walls and above ceilings throughout the building. This is noteworthy when considering renovation activities. In addition, non-friable asbestos containing materials (ACM) need to be considered when planning renovation and considering maintenance activities.

Should renovation or demolition be scheduled for the property, a complete asbestos investigation, which should include non-friable materials, will be necessary prior to any work being performed. The Owner may wish to conduct a complete asbestos survey for inclusion into the buildings' Operations and Maintenance Program. Some areas accessed did contain some suspect non-friable ACM in the form of linoleum and floor tiles. An asbestos survey must be performed before any renovations can take place. In addition, other non-friable ACM (see following pages) must be considered when planning renovations and considering maintenance activities.

Some non-friable suspect materials present are:

* Floor tile and tile mastic
* Ceiling Tile
* Plaster walls and ceilings
* Electric wiring
* Roofing Materials
* Mastics
* Transite exterior siding
* Vinyl wall paper
* Fire doors
* Cementitious mortar, block and other products
* Caulks
* Tar wraps

5.8. Lead Based Paint and Other Lead Related Issues

The owner may wish to test painted surfaces for lead content for future reference and incorporation into the building Operations and Maintenance Program. Should the paint need to be sanded, scraped, etc., or be involved in demolition, testing should first be performed to determine lead content.

5.9. Radon

Data provided by the New York State Department of Health indicates that for participating properties, in most areas of Staten Island, the average levels of Radon are below the US EPA Action Level of 4 picocuries/liter.

As in any building on a concrete slab, the sumps, floor drains, cracks and penetrations could allow a seepage of radon gas. This area has a low risk of radon, but periodic testing of radon is advised for any properties housing a significant number of people.

5.10. Physical Setting Analysis

The subject property is in an urban setting with heavy industrial activity. The property is covered with a highly damage asphalt black top.

There are various listed hazardous waste sites and LUST Sites in the area including the Staten Island Home Port. While in close proximity to the subject property none of the sites should impact the subject property. Please see the enclosed database report for site specific information. In addition the Staten Island Rapid Transit runs along the back of the property.

6. Conclusions and Recommendations

We have performed a Phase 1 Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527 of **475 Bay Street, Staten Island, NY.** Exceptions to, or deletions from this practice are described in section 1 of this report. The assessment has revealed no evidence of recognized environmental conditions in connection with the property **except for the following:**

The past and current use of the property and adjacent and neighboring properties is industrial and commercial.

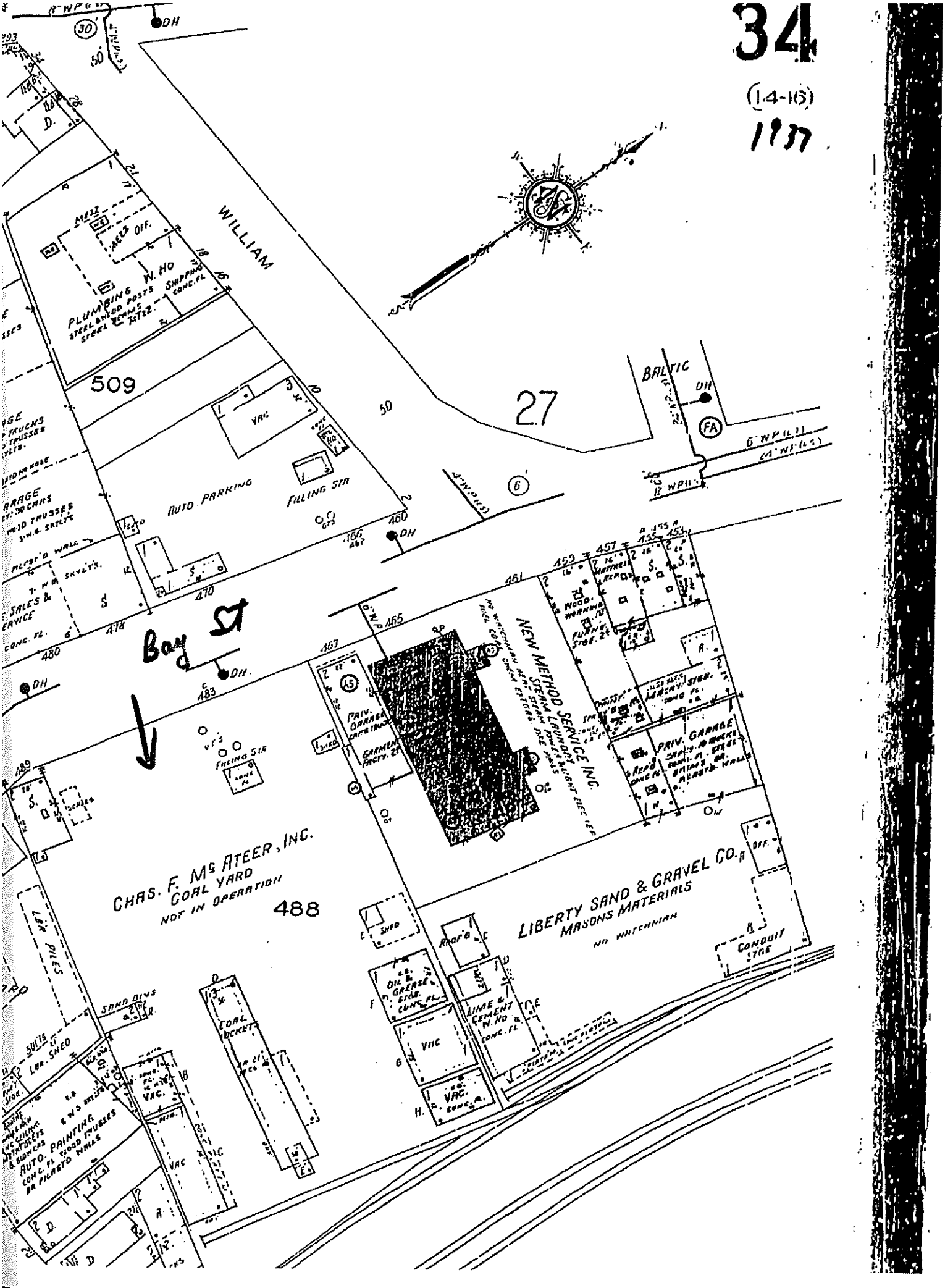
⊗ The history of the subject property on the 1934 Sanborn map shows the subject property as the Chas F. McAteer Inc. Coal Yard. The map also indicates a filling station with tanks and pumps on the yard whose fate is unknown. Adjoining properties and proximate sites also show a history of industrial use. The uses predate any regulatory controls and represent sources of possible contamination.

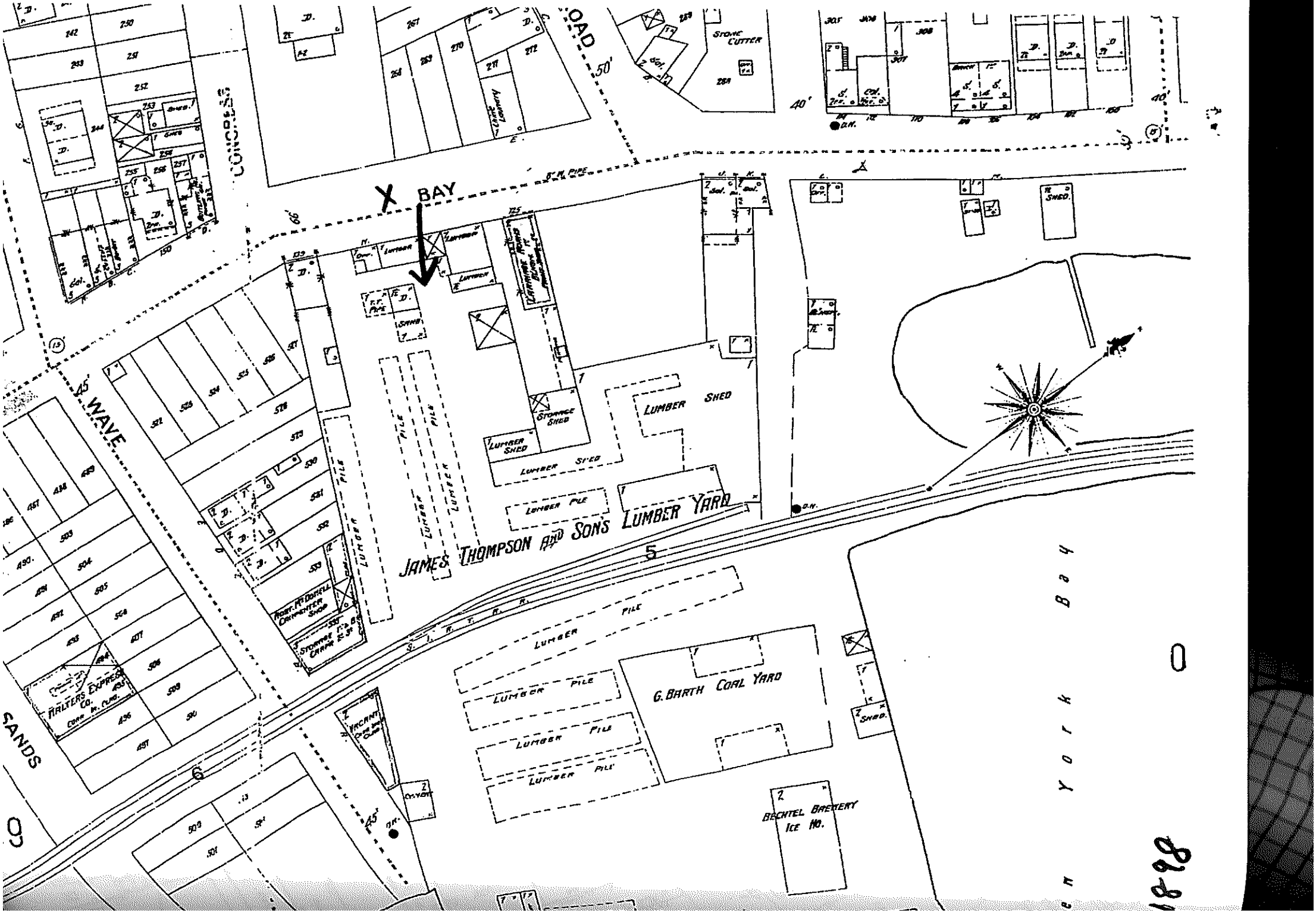
The property should be first surveyed with a magnetometer to locate any buried tanks or similar anomalies (i.e. buried drums, conduits, or drywells). In addition, sufficient soil borings down to a depth of about 20 feet should be taken and analyzed with a Photo-Ionization Detector (PID). Composites of the various samples can be made and should be submitted for laboratory analysis for Priority Pollutants+40 (PP+40), Total Petroleum Hydrocarbons (TPH) and PCBs'. If the water table is encountered then aqueous samples should be taken and also analyzed.

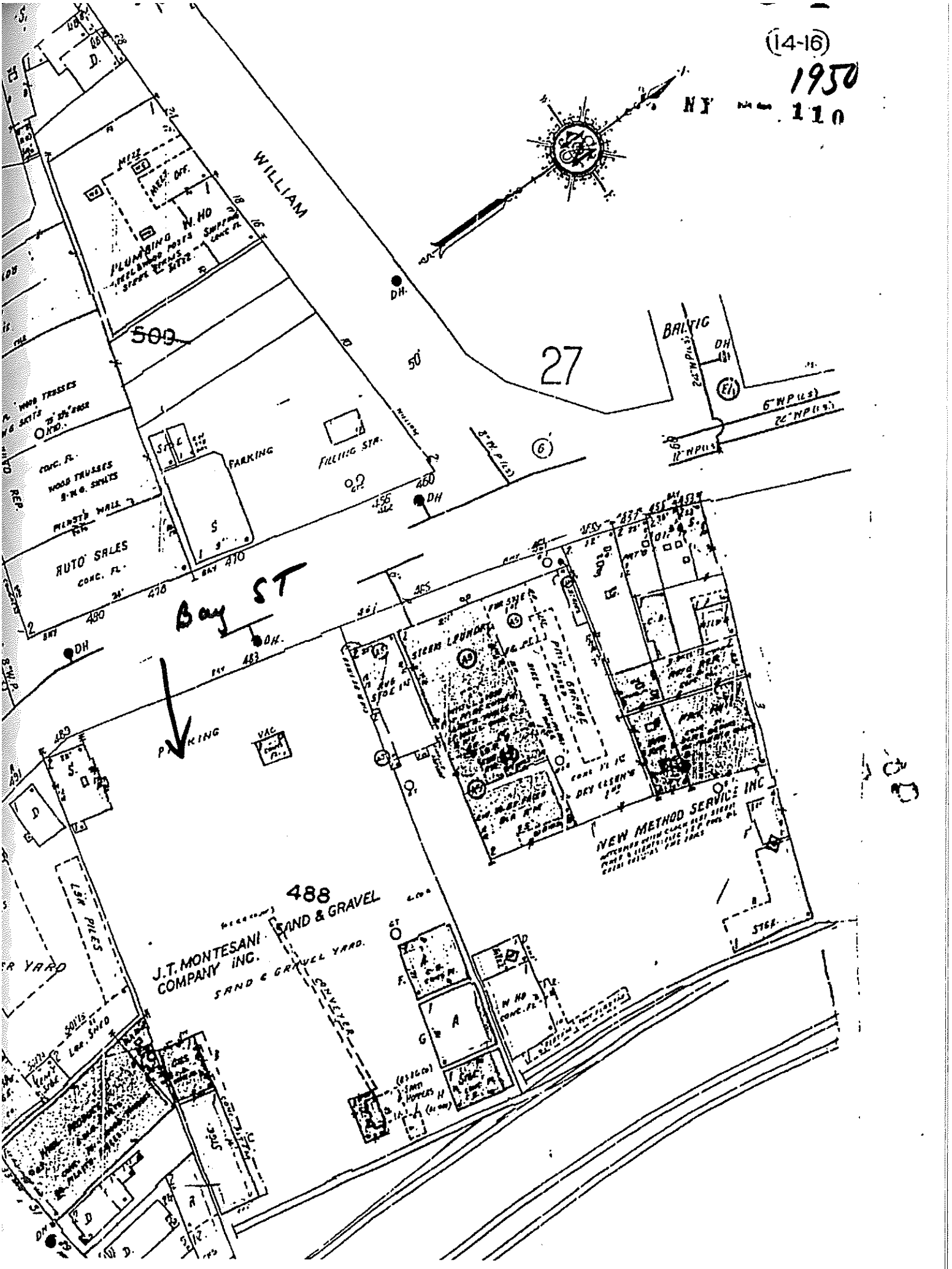
There are neighboring sites that are listed in one or more of the databases searched. A list of properties found in any one database for the studied area can be found in the Reference Section. Several sites are listed as participating in the bulk storage programs or, as generating and transporting hazardous waste. The property is proximate to commercial and multi-housing properties and as such reasonably would be within range of these activities. Several spills of fuel products have been reported within the search radius. The quantities, distances from the subject site and nature of the product would pose minimal risk of migration.

Preliminary Budget

Item	Quantity	Estimated Cost
Soil Analysis for Priority Pollutants+40, TPH and PCB's	20 Borings with 5 composite samples	Approx. $14000.00
Magnetometer scan of property for possible buried tanks, drums, etc	N/A	Approx. $2500.00
PID Soil Samples	20	Approx. $1800.00
		Total Approx. $18,300.00


34
(14-16)
1937
WILLIAM
BALTIC
509
27
488
Bay St
PLUMBING & STEEL & WOOD POSTS STEEL TRUSS
AUTO PARKING
FILLING STA
NEW METHOD SERVICE INC.
STEAM LAUNDRY
CHAS. F. McATEER, INC.
COAL YARD
NOT IN OPERATION
LIBERTY SAND & GRAVEL CO.
MASONS MATERIALS
NO WATCHMAN
AUTO. PAINTING
CONC. FL. WOOD TRUSSES
BR. PILASTD WALLS
PRIV. GARAGE
PRIV. GARAGE
SAND BINS
COAL BOCKETS
LIME & CEMENT
CONDUIT STOR
SHED
OIL & GREASE
STEEL
CONC. FL.
VAC.
LBR. SHED
SALES & SERVICE
SALES
SHED
DH
FA
460
461
465
466
467
470
478
480
483
489
455
457
459


BAY
JAMES THOMPSON AND SONS LUMBER YARD
LUMBER SHED
LUMBER PILE
STORAGE SHED
G. BARTH COAL YARD
BECHTEL BREWERY ICE HO.
WALTERS EXPRESS CO.
ROAD
WAVE
SANDS
York Bay


(14-16)
1950
NY
110
WILLIAM
BALTIC
509
27
Bay ST
AUTO SALES
CONC. FL.
WOOD TRUSSES
S.W.C. SHUTTS
PARKING
FILLING STA.
STEERS LAUNDRY
DRY CLEAN'G
NEW METHOD SERVICE INC
488
J.T. MONTESANI
COMPANY INC.
SAND & GRAVEL
SAND & GRAVEL YARD
PARKING
VAC
DH
456
460
470
480
483
488

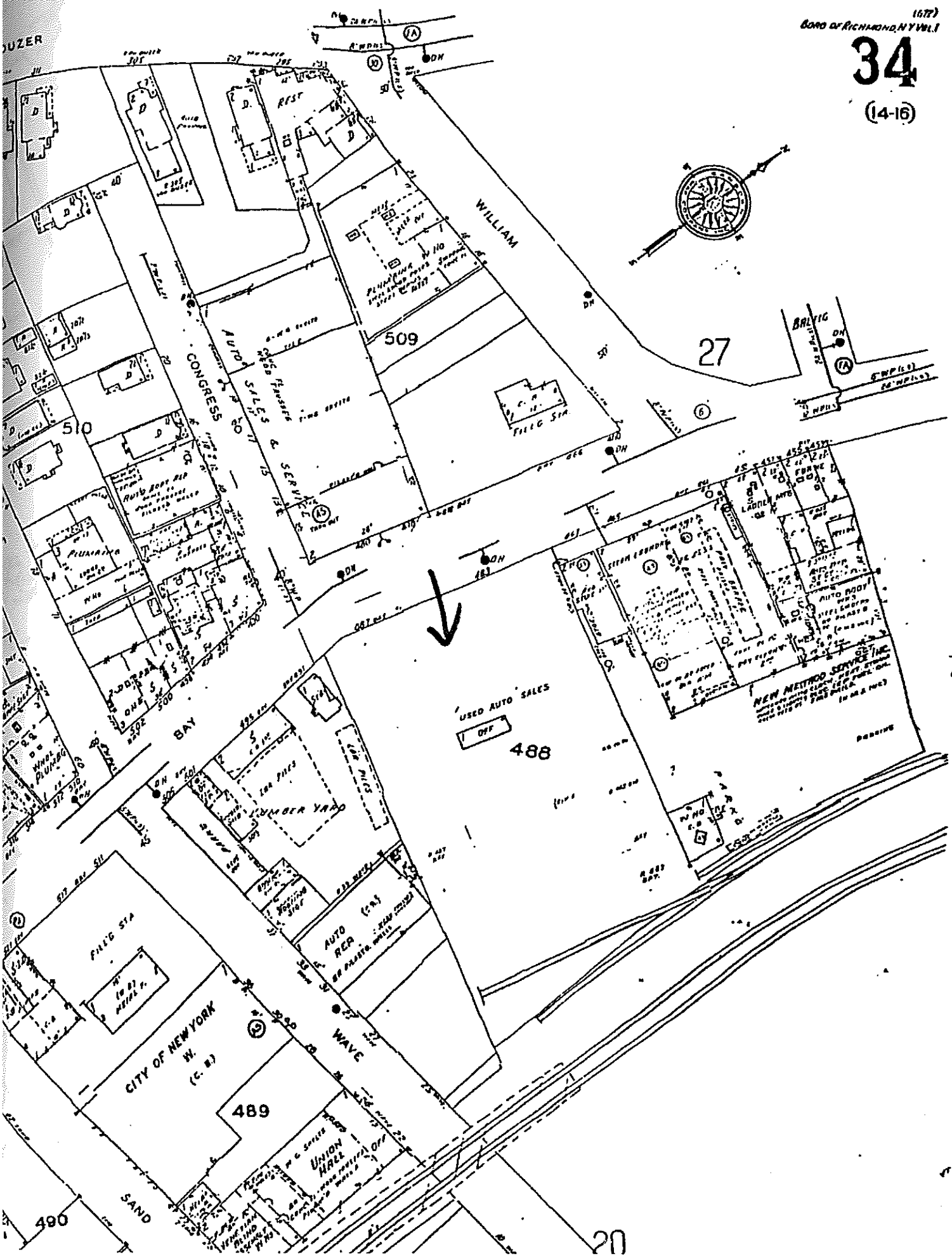
1977

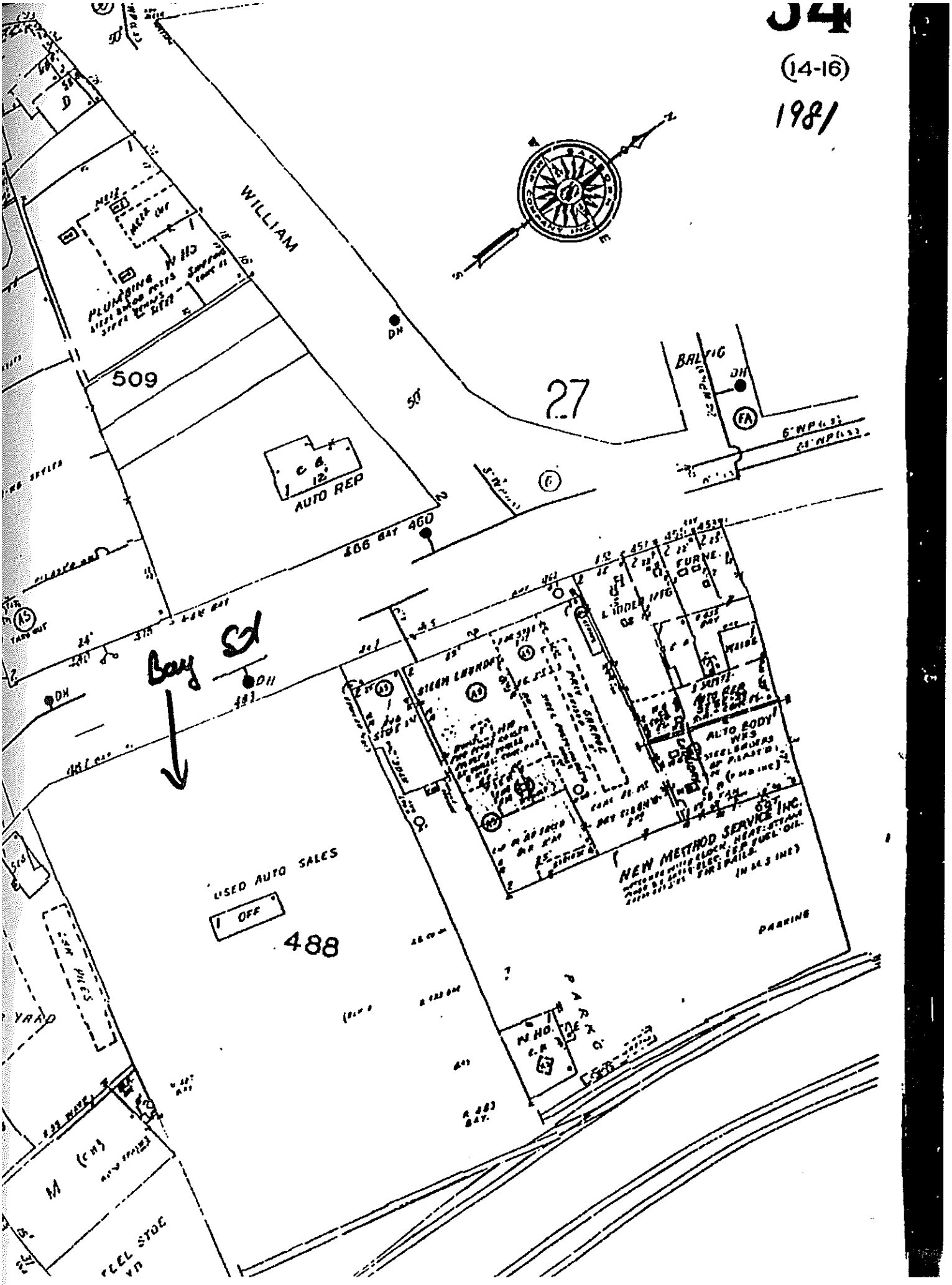
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BORO OF RICHMOND, N.Y. VOL. I

34

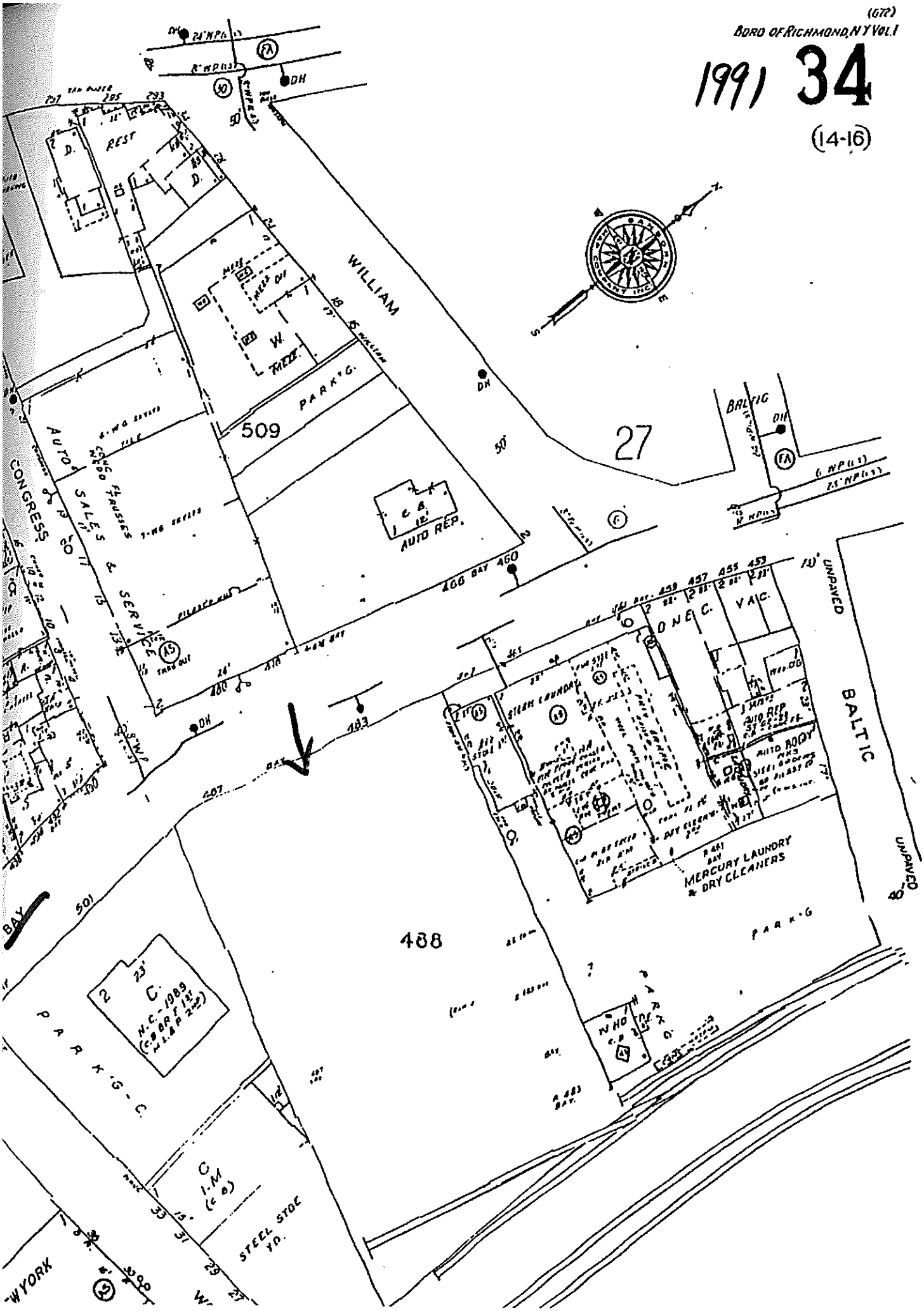
(14-16)




34
(14-16)
1981
WILLIAM
509
AUTO REP
27
BALTIC
Bay St
USED AUTO SALES
1 OFF
488
NEW METHOD SERVICE INC.
AUTO BODY
PARKING

1991 34

(14-16)


WILLIAM
BALTIC
CONGRESS
AUTO SALES & SERVICE
509
27
488
PARK'G
AUTO REP.
STEAM LAUNDRY
AUTO BODY
MERCURY LAUNDRY & DRY CLEANERS
UNPAVED
STEEL STOR YD.
BAY
400 BAY 460
407
501
483

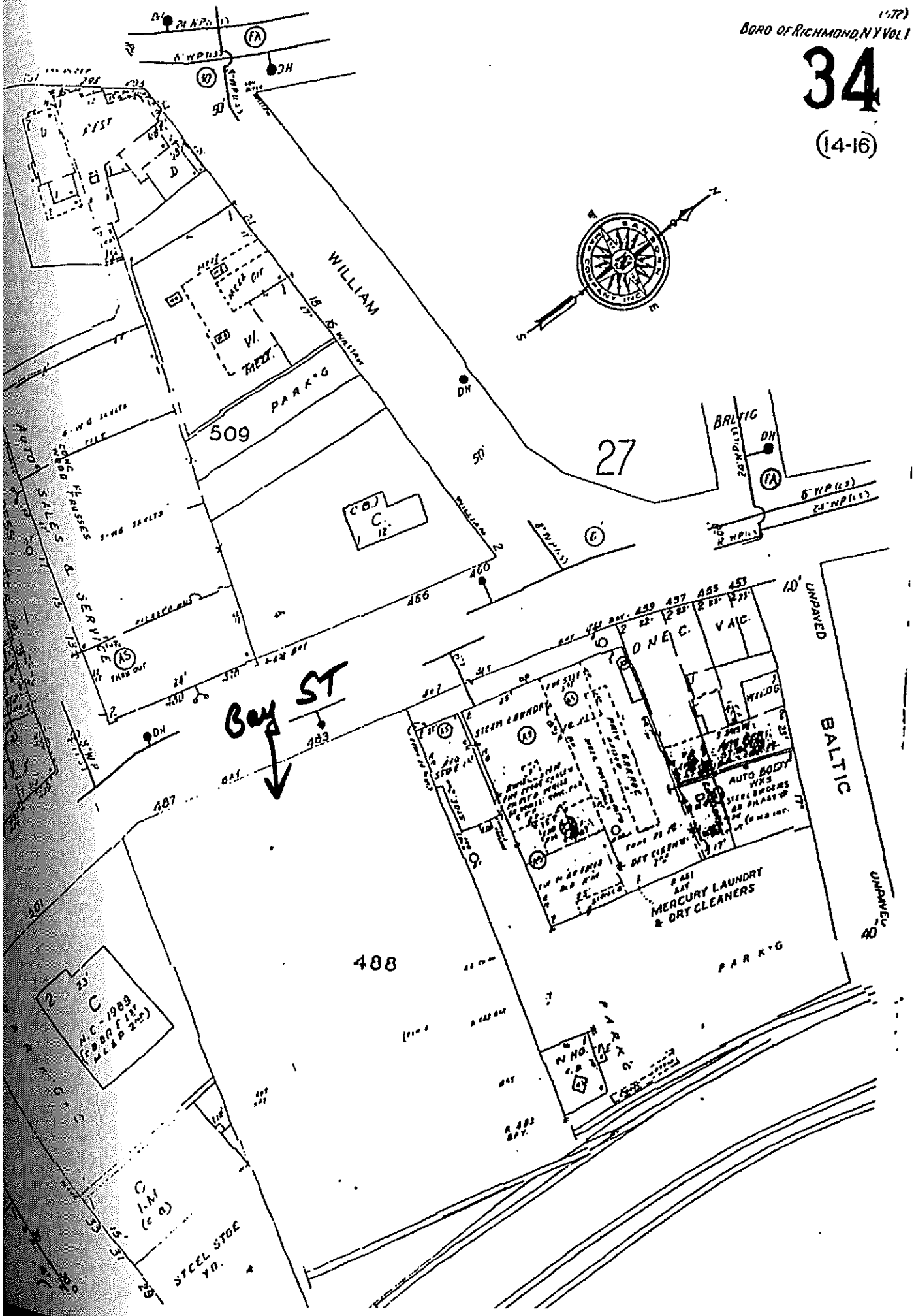
1990

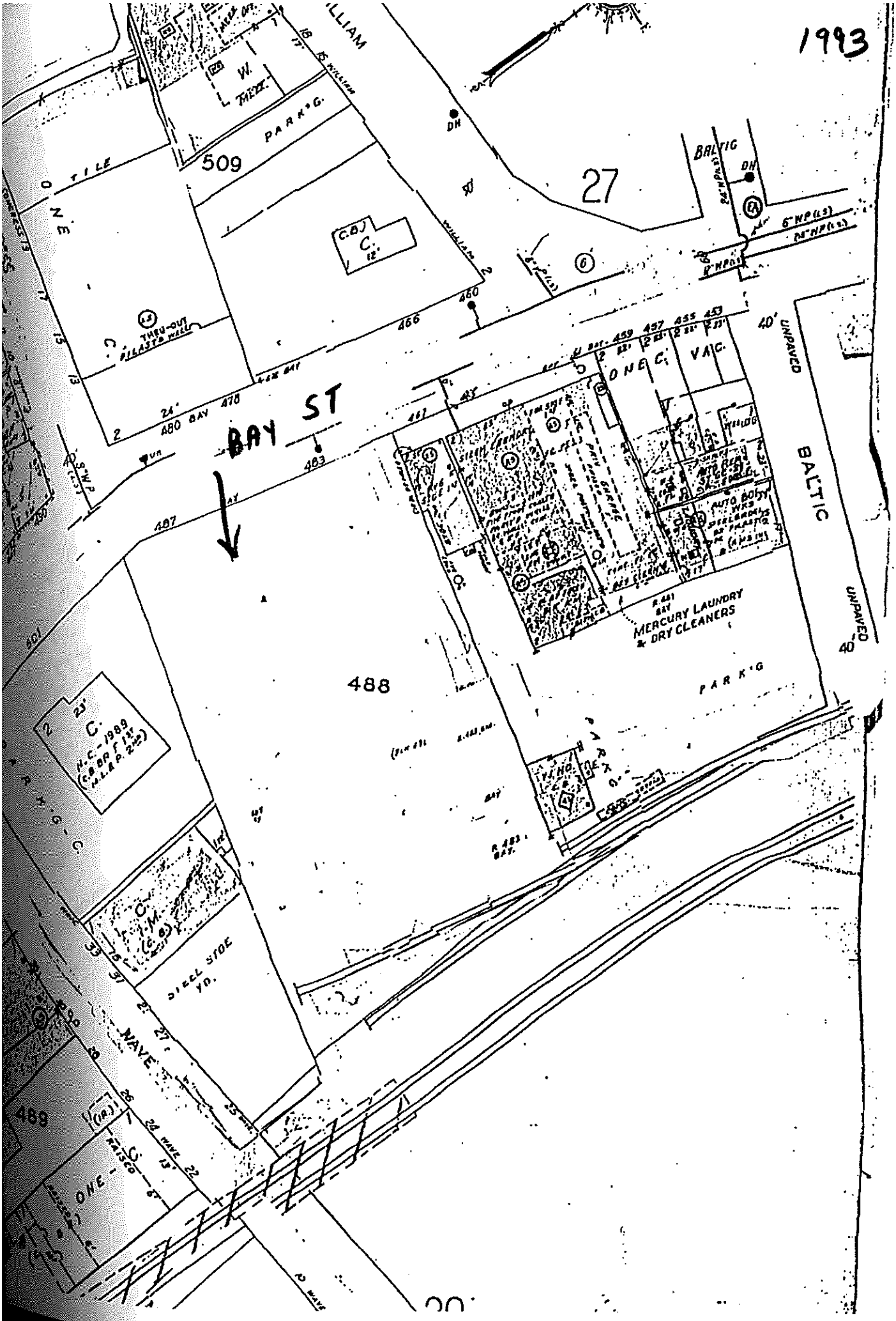
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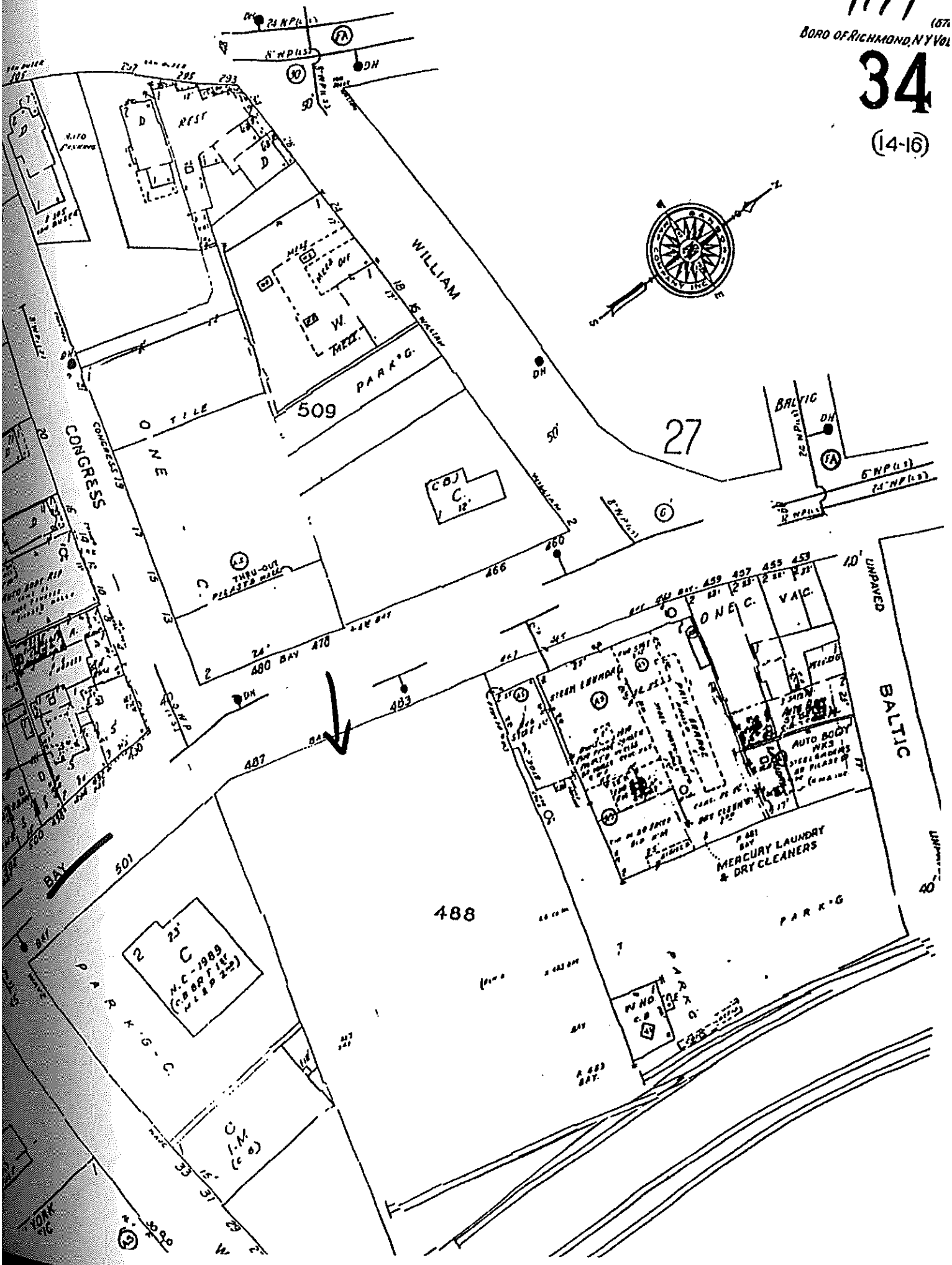
BORO OF RICHMOND, N.Y. VOL. I

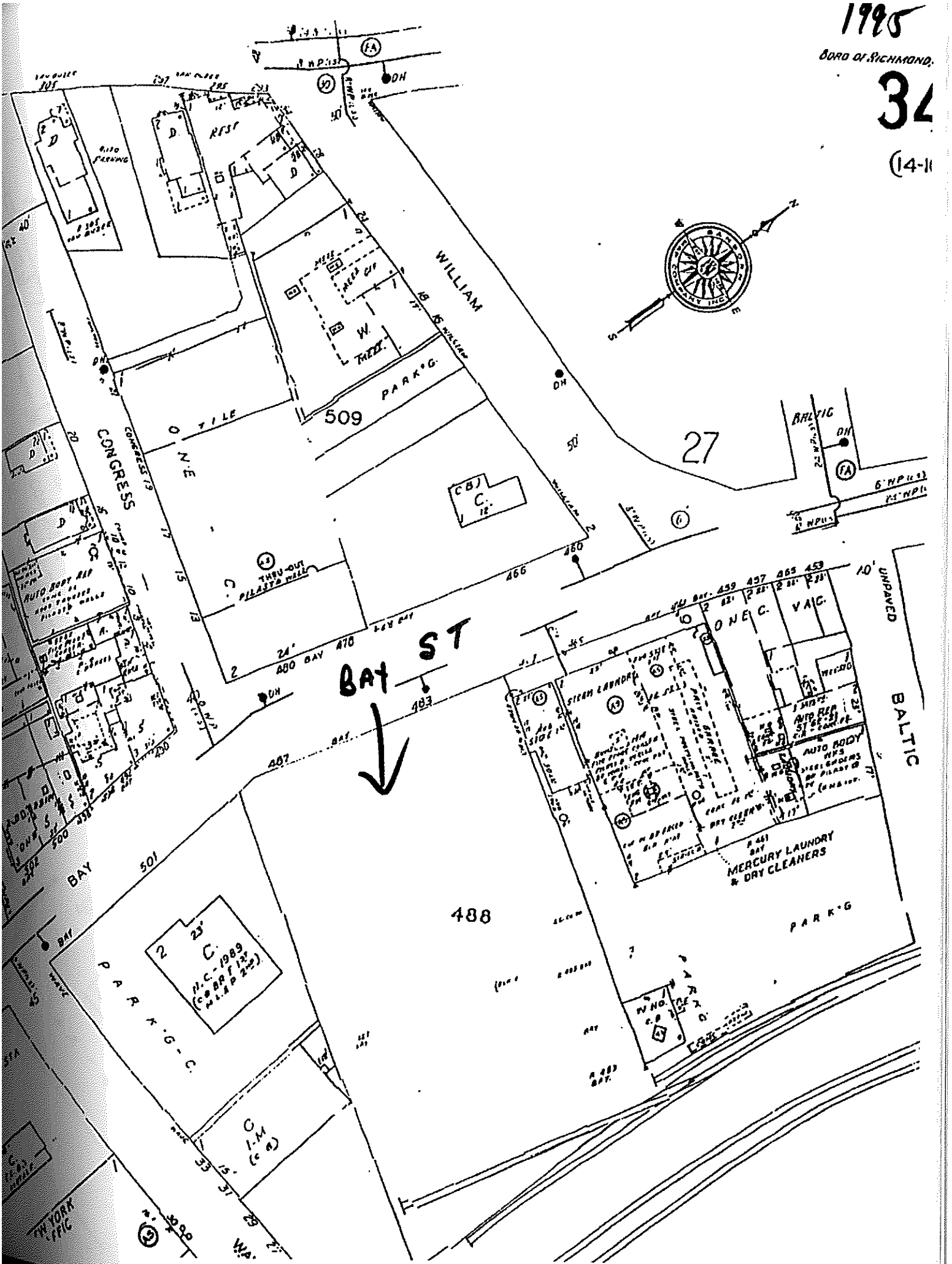
34

(14-16)




1993
BAY ST
BALTIC
UNPAVED
UNPAVED
MERCURY LAUNDRY
& DRY CLEANERS
AUTO BODY
WKS
509
488
489
27
PARK'G
PARK'G
PARK'G
ONE
ONE
VAC.
C.B.J.
C.
12'
THRU-OUT
PILASTER WALL
STEEL SIDE
YD.
WAVE
WAVE
WILLIAM
WILLIAM
DH
DH
TILE
TILE
6"WP(LS)
8"WP(LS)
8"WP(LS)
24"WP(LS)
460
466
480 BAY 470
483
487
459
457
455
453
40'
40'
20'


WILLIAM
CONGRESS
BALTIC
509
27
488
PARK'G
MERCURY LAUNDRY & DRY CLEANERS
AUTO BODY
STEEL FRAMES
ONE STORY
VAC.
UNPAVED
BAY
480
466
460
403
407
501

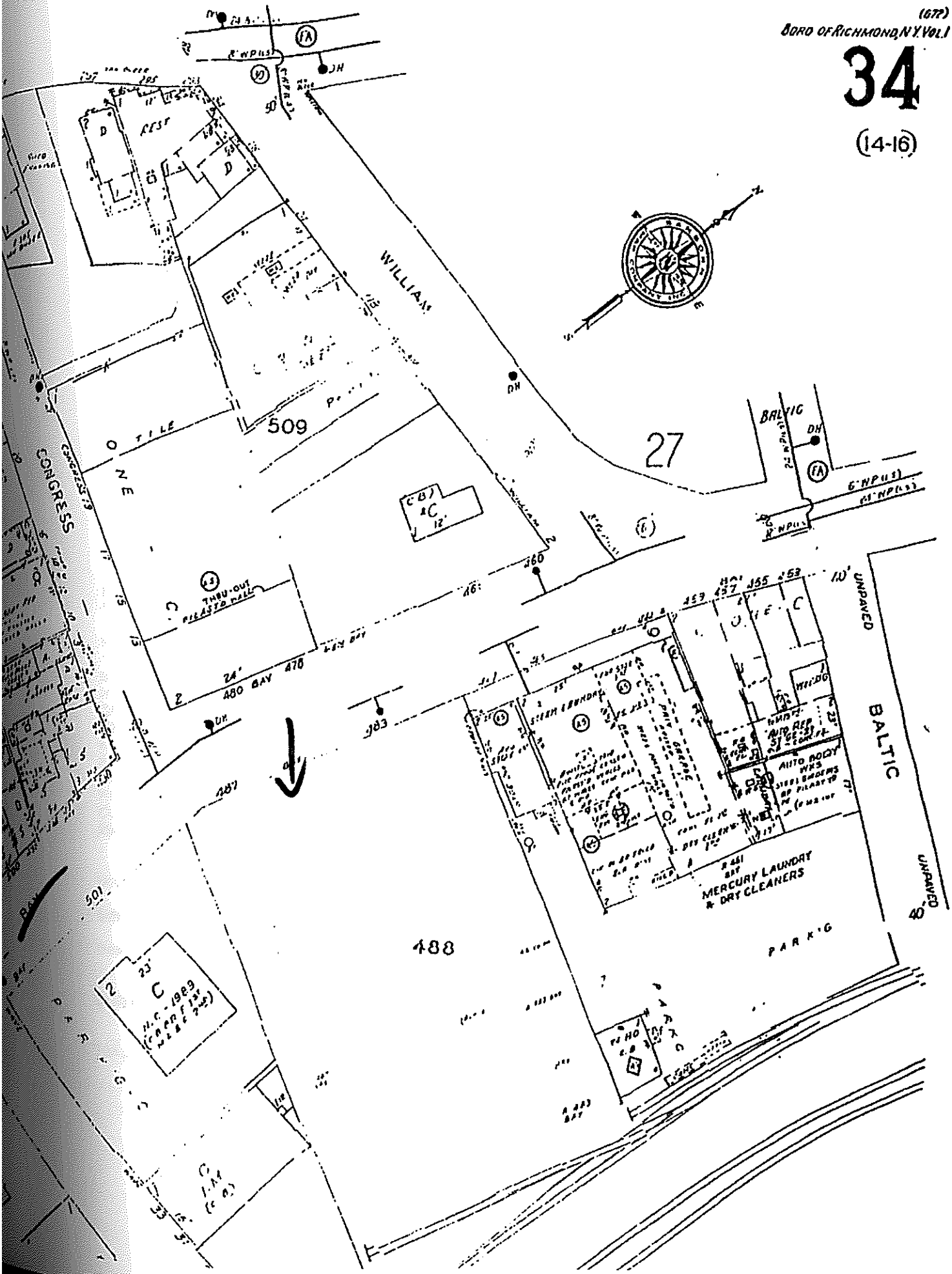

1995
BORO OF RICHMOND
32
(14-1
BAY ST
WILLIAM
CONGRESS
BALTIC
BAY
509
27
488
501
MERCURY LAUNDRY & DRY CLEANERS
AUTO BODY
PARK'G
PARK'G-C
UNPAVED

1996

(677)
BORO OF RICHMOND, N.Y. VOL. I

34

(14-16)



APPENDIX E

URS
One Penn Plaza, Suite 600
New York, NY 10119
Phone: 212-736-4444
Facsimile: 212-629-4249

PHOTOGRAPHIC DOCUMENTATION

CLIENT NAME:	PROJECT NAME:	URS PROJECT:
BFC Partners	475 Bay Street	11140223.00001

Photo No.	Date:
1	4/5/13

Description:
View looking east/ southeast at the site from across Bay St.



Photo No.	Date:
2	4/5/13

Description:
View looking north at the western third of the site closest to Bay St. The building at the top of the photo is a dry cleaning business.



URS
One Penn Plaza, Suite 600
New York, NY 10119
Phone: 212-736-4444
Facsimile: 212-629-4249

PHOTOGRAPHIC DOCUMENTATION

CLIENT NAME:	PROJECT NAME:	URS PROJECT:
BFC Partners	475 Bay Street	11140223.00001

Photo No.	Date:
3	4/5/13

Description:
View looking east of the eastern two thirds of the site. Staten Island Rapid Transit elevated train tracks visible behind the tree line.



Photo No.	Date:
4	

Description:
View looking south along Bay St side of the site. McDonald's just over the southern site boundary. In the upper left corner of the photo is an auto body repair shop.



URS
One Penn Plaza, Suite 600
New York, NY 10119
Phone: 212-736-4444
Facsimile: 212-629-4249

PHOTOGRAPHIC DOCUMENTATION

CLIENT NAME:	PROJECT NAME:	URS PROJECT:
BFC Partners	475 Bay Street	11140223.00001

Photo No.	Date:
5	4/5/13

Description:
View looking southeast at the adjacent site auto body repair shop.



Photo No.	Date:
6	4/5/13

Description:
View looking northwest. The site has been cleared (machine tire tracks visible). At the top of photo is adjacent site lumber yard.



URS
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New York, NY 10119
Phone: 212-736-4444
Facsimile: 212-629-4249

PHOTOGRAPHIC DOCUMENTATION

CLIENT NAME:	PROJECT NAME:	URS PROJECT:
BFC Partners	475 Bay Street	11140223.00001

Photo No.	Date:
7	4/5/13

Description:
View looking west along northern site boundary. Ballast stone visible in foreground; this location identified on 1937 Sanborn as a having oil and grease bins and other historic site buildings.



Photo No.	Date:
8	4/5/13

Description:
View looking across Bay St (looking west) from site.



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New York, NY 10119
Phone: 212-736-4444
Facsimile: 212-629-4249

PHOTOGRAPHIC DOCUMENTATION

CLIENT NAME:	PROJECT NAME:	URS PROJECT:
BFC Partners	475 Bay Street	11140223.00001

Photo No.	Date:
9	4/5/13

Description:
View of manhole located just inside the western site boundary. On the day of URS' site inspection, water was observed flowing out of the manhole, across the sidewalk and down Bay St. It was flowing to the north.



APPENDIX F

BFC Parking Lot
475 Bay Street
Staten Island, NY 10301

Inquiry Number: 3568702.6
April 05, 2013

The EDR-City Directory Abstract

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

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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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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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 2012. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 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
2012	Cole Information Services	-	X	X	-
2007	Cole Information Services	-	X	X	-
2005	Hill-Donnelly Information Services	-	X	X	-
2000	Cole Information Services	-	X	X	-
1995	NYNEX	-	X	X	-
1990	NYNEX Information Resource Company	-	X	X	-
1984	New York Telephone	-	X	X	-
1979	New York Telephone	-	X	X	-
1975	New York Telephone Company	-	X	X	-
1970	New York Telephone	-	X	X	-
1965	New York Telephone Company	-	X	X	-
1960	New York Telephone Company	-	X	X	-
1934	R. L. Polk Co.	-	X	X	-
1928	New York Telephone	-	X	X	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

475 Bay Street
Staten Island, NY 10301

FINDINGS DETAIL

Target Property research detail.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

BAY

420 BAY

Year	Uses	Source
1995	ABCO REFRIGERATION SUPPLY CO	NYNEX
	Abco Refrigeration Supply	NYNEX
1990	A B CO REFRIGERATION SUPPLY CO	NYNEX Information Resource Company
1984	RIDGECREST AUTOSALES	New York Telephone
	PADILLA DAISY	New York Telephone
	CURRY FREDERICK	New York Telephone
1979	RIDGECREST AUTO SALES	New York Telephone
1975	RIDGECREST AUTO SALES	New York Telephone Company
1970	RIDGECRE ST AUTO SALES	New York Telephone

422 BAY

Year	Uses	Source
1934	Fisher Frank gatemn h	R. L. Polk Co.

425 BAY

Year	Uses	Source
1995	King Kullen	NYNEX
	M Parisi & Son Constr Co Inc	NYNEX
1990	M PARISI & SON CONSTR CO INC	NYNEX Information Resource Company

426 BAY

Year	Uses	Source
1995	New Chol Hee	NYNEX
	PERINA Steven	NYNEX
1990	LOPEZ LISA	NYNEX Information Resource Company
	NEW CHOI HEE	NYNEX Information Resource Company
1984	CARDENAS JOSE	New York Telephone
1979	GIORDANO LOUIS	New York Telephone
1975	GIORDANO LOUIS	New York Telephone Company
1970	GIORDANO LOUIS	New York Telephone
1965	GIORDANO LOUIS	New York Telephone Company
	FERRARA CARMELA MRS	New York Telephone Company

FINDINGS

Year	Uses	Source
1960	GIORDANO LOUIS	New York Telephone Company
	RENNA JOSEPHINE MRS	New York Telephone Company
1934	Colelia John lab h	R. L. Polk Co.
	FARRELL John Florence tel opr r	R. L. Polk Co.
	Lupore Jos r	R. L. Polk Co.
	OBrian Philip r	R. L. Polk Co.
	Salerno Allesandro Josephine barber	R. L. Polk Co.
	Salerno Susan r	R. L. Polk Co.
	Sinnott Wm r	R. L. Polk Co.

430 BAY

Year	Uses	Source
1970	STAPLETON PLUMBING SUPPLY CO	New York Telephone
	KAPLAN P & SON PLMBNG & HEATING SUPLS	New York Telephone
1965	BOFFA JOS	New York Telephone Company
	KAPLAN P & SON PLMBNG & HEATING SUPLS	New York Telephone Company
	STAPLETON PLUMBING SUPPLY CO	New York Telephone Company
1960	KAPLAN P & SON PLMBNG & HEATLNG SUPLS	New York Telephone Company
	STAPLETON PLUMBING SUPPLY CO	New York Telephone Company
1934	Culberson Geo A Cath B r	R. L. Polk Co.
	Daly Bernard W lab r	R. L. Polk Co.
	Gordon Dorothy Mrs r	R. L. Polk Co.
	Mc Laughlin John r	R. L. Polk Co.
	Mc Laughlin Thos J Anna R h	R. L. Polk Co.
	STATEN Island Wiping Materials Co RTN Thos Crescitelli	R. L. Polk Co.
1928	SIMON & ABEL PLUMG HEATG	New York Telephone

432 BAY

Year	Uses	Source
1990	ABCO REFRIGERATION SUPL CO	NYNEX Information Resource Company
1984	ABCO REFRIGERATION SUPL CO	New York Telephone
	ABCO REFRGRTN SUPL CO OF SI INC	New York Telephone
1979	A B C O REFRIGRATN SUPL CO OF SI INC	New York Telephone
1975	A B C O REFRIGRATN SUPL CO OF SI INC	New York Telephone Company
1970	RASILE H	New York Telephone

FINDINGS

Year	Uses	Source
1970	CICCONI T	New York Telephone
	A B C O REFRIGRATN SUPL CO OF SI INC	New York Telephone
1965	ABCO REFRIGRATN SUPL CO OF SI INC	New York Telephone Company
1934	Sexton Thos L Ellen h	R. L. Polk Co.

436 BAY

Year	Uses	Source
1984	MATTHEWS PAUL	New York Telephone
	TEEGARDEN CALVIN L	New York Telephone
1979	GAMBLE EK	New York Telephone
	TEEGARDEN CALVIN L	New York Telephone
1975	TEEGARDEN CALVIN L	New York Telephone Company
	TALLEDO GEO	New York Telephone Company
	GAMBLE E K	New York Telephone Company
1970	GAMBLE E K	New York Telephone
	GATES G	New York Telephone
	TALLEDO GEO	New York Telephone
	TEEGARDEN CALVIN L	New York Telephone
1965	GAMBLE E K	New York Telephone Company
	TEEGARDEN CALVIN L	New York Telephone Company
	TALLEDO GEO	New York Telephone Company
1960	GAMBLE ETHEL MRS	New York Telephone Company
	TEEGRDEN LORETTA MRS	New York Telephone Company
1934	Memory Wm Louise mech h	R. L. Polk Co.
	Crawley Alice Mrs restrwkr h	R. L. Polk Co.
	Cicero Nicholas Eliz h	R. L. Polk Co.
	Cicero Jerome Elvira h	R. L. Polk Co.
	Cecero Gennaro S Veneranda Liberty Barber Shop r	R. L. Polk Co.

440 BAY

Year	Uses	Source
1970	KRAMER OTTO G	New York Telephone
1965	SALTIN A	New York Telephone Company
	KRAMER OTTO C	New York Telephone Company
1960	KRAMER GEO	New York Telephone Company
1934	Mc Laughlin Jas Kath coal dlr h	R. L. Polk Co.
	Greene Mary A wid John H h	R. L. Polk Co.

FINDINGS

Year	Uses	Source
1934	Goold Jas A harness mkr	R. L. Polk Co.
	Cook Jas lab r	R. L. Polk Co.
1928	STAR RADIATOR CO	New York Telephone

442 BAY

Year	Uses	Source
1995	Lombardi & Sons	NYNEX
	Harley Davidson Dealer	NYNEX
	Lombardi F & Sons Inc	NYNEX
1990	LOMBARDI F & SONS INC	NYNEX Information Resource Company
	LOMBARDI F & SONS MTRCYCLS BYCLS	NYNEX Information Resource Company
	LOMBARDI F	NYNEX Information Resource Company
	HARLEY-DAVIDSON AGNCY MTRCYCLS	NYNEX Information Resource Company
1984	LOMBARDI F & SONS INC	New York Telephone
	LOMBARDI F & SONS MTRCYCLS BYCLS	New York Telephone
	HARLEY-DAVIDSON AGNCY MTRCYCLS	New York Telephone
1979	LOMBARDI F & SONS MTRCYCLS BYCLS	New York Telephone
	HARLEY-DAVIDSON AGNCY MTRCYCLS	New York Telephone
1975	HARLEY-DAVIDSON AGNCY MTRCYCLS	New York Telephone Company
	LOMBARDI F & SONS MTRCYCLS BYCLS	New York Telephone Company
1970	LOMBARDI F & SONS MTRCYCLS BYCIS	New York Telephone
	HARLEY-AVIDSON AGNCY MTRCYCLS	New York Telephone
1965	LOMBARDI F & SONS MTRCYCLS BYCLS	New York Telephone Company
	HARLEY DAVIDSON AGNCY MTRCYCLS	New York Telephone Company
1960	LOMBARDI F & SONS MTRCYCLS BYCTS	New York Telephone Company
	DIETRICH LEAH M	New York Telephone Company
1934	Lomebardi F & Sons Michl Anthony Frank Lombardi motorcycles sales and service	R. L. Polk Co.
	Ward John J Helen pntr	R. L. Polk Co.
1928	WARD J J PAINTR	New York Telephone
	MILLER N RESTRNT	New York Telephone

FINDINGS

446 BAY

Year	Uses	Source
1995	Guddi Grocers Inc	NYNEX
1934	Schreibers Radio & Battery Service Alex Schreiber	R. L. Polk Co.
1928	SCHREIBER E RADIO	New York Telephone

450 BAY

Year	Uses	Source
1934	Ruecl Nicholas Indrywkr h	R. L. Polk Co.

451 BAY

Year	Uses	Source
1928	PERSSON & KUNTZEN IRON WKS	New York Telephone

453 BAY

Year	Uses	Source
1934	Cleary John B Eliz C h	R. L. Polk Co.

455 BAY

Year	Uses	Source
1970	WALKER JOSEPHINE MRS	New York Telephone
	WALKER WM	New York Telephone
1965	WALKER WM	New York Telephone Company
	WALKER JOSEPHINE MRS	New York Telephone Company
1960	WALKER WM	New York Telephone Company
	WALKER JOSEPHINE MRS	New York Telephone Company
	NEWARK LADDER & BRACKET CO INC	New York Telephone Company
1934	Hutcherson Roy Penelope coast guard h	R. L. Polk Co.
	Baynor Nannie wid Saml r	R. L. Polk Co.
	Beaune Ernest Emma coast guard h	R. L. Polk Co.

457 BAY

Year	Uses	Source
1995	Bay Harbor Motors	NYNEX
	Mariners Cove Marine	NYNEX
	Staten Island Kawasaki	NYNEX
	Staten Island Seadoo	NYNEX
	Bay Harbor Motors	NYNEX
1990	STATEN ISLAND KAWASAKI	NYNEX Information Resource Company
	BAY HARBOR MOTORS	NYNEX Information Resource Company

FINDINGS

Year	Uses	Source
1990	BAY HARBOR MOTORS	NYNEX Information Resource Company
1984	STATEN ISLAND KAWASAKI	New York Telephone
1965	SMITH WOODROW W	New York Telephone Company
1960	CARRAWAY EVA MAE	New York Telephone Company
1934	Ryan Edw lab r	R. L. Polk Co.

459 BAY

Year	Uses	Source
1965	AMER LADDER CO	New York Telephone Company
	NEWARK LADDER CO OF SI	New York Telephone Company
1960	TUDOR FURN CO WAREHOUSE	New York Telephone Company
1934	Brann M clnr r	R. L. Polk Co.
	Brodindge J driver New Method Service Co Inc r	R. L. Polk Co.
	Burbank G lndrymkr r	R. L. Polk Co.
	Cody M lndry wkr r	R. L. Polk Co.
	De George P lndrywkr New Method Service Co Inc r	R. L. Polk Co.
	Di Elia P lndry wkr r	R. L. Polk Co.
	Di Elia Rose lndry wkr r	R. L. Polk Co.
	Falk L driver New Method Service Co Inc h	R. L. Polk Co.
	FALK N driver New Method Service Co Inc h	R. L. Polk Co.
	Fltzgereld M lndry wkr r	R. L. Polk Co.
	Frederickson M clk r	R. L. Polk Co.
	Gabrich M lndrywkr r	R. L. Polk Co.
	Iannocone J lndrywkr r	R. L. Polk Co.
	Landa C lndrywkr r	R. L. Polk Co.
	Meyer Betty lndrywkr r	R. L. Polk Co.
	Morgan D clnr r	R. L. Polk Co.
	Myles C driver r	R. L. Polk Co.
	NEW Method Cleaners & Dyers Co RTN New Method Service Co Inc	R. L. Polk Co.
	Page Lee clnr r	R. L. Polk Co.
	Skonowski C lndrywkr h	R. L. Polk Co.
	Stark A driver r	R. L. Polk Co.
	Stein W lndrywkr New Method Service Co Inc r	R. L. Polk Co.
	Walker J clnr r	R. L. Polk Co.
	Whitley A lndrywkr r	R. L. Polk Co.

FINDINGS

Year	Uses	Source
1928	NEW METHOD CLNG & DYEING CO	New York Telephone

460 BAY

Year	Uses	Source
1934	Walberg David atndt Standard Oil Co of NY Inc	R. L. Polk Co.

465 BAY

Year	Uses	Source
1995	Astro Support Inc	NYNEX
	Vinyl Tech window Manufacturing Corp	NYNEX
1990	DINA & LAINIE FASHION	NYNEX Information Resource Company
	JEEVES VALET SVCES	NYNEX Information Resource Company
	VALET SVCES	NYNEX Information Resource Company
1984	DINA & LAINIE FASHION	New York Telephone
	EVERGREEN HYLAN CORP	New York Telephone
	MERCURY CLEANG CNTRS MAIN OFFICE	New York Telephone
	MERCURY CLEANG CNTRS DRIVE IN	New York Telephone
	MERCURY STORES MAIN OFC	New York Telephone
	NEW METHOD DRIVE IN	New York Telephone
	NEW METHOD SVCE CO INC	New York Telephone
1979	DINA & LAINIE FASHION	New York Telephone
	EVERGREEN HYLAN CORP	New York Telephone
	MERCURY CLEANS CNTRS MAIN OFFICE	New York Telephone
	MERCURY CLEANS CNTRS	New York Telephone
	MERCURY STORES MAIN OFC	New York Telephone
	NEW METHOD DRIVE IN	New York Telephone
	NEW METHOD SVCE CO INC	New York Telephone
1975	MERCURY STORES MAIN OFC	New York Telephone Company
	MERCURY GLEANG GNTRS	New York Telephone Company
	MERCURY GLEANG GNTRS	New York Telephone Company
	EVERGREEN HYLAN CORP	New York Telephone Company
	DINA & LAINIE FASHION	New York Telephone Company
	NEW METHOD DRIVE IN	New York Telephone Company
	NEW METHOD SVCE CO INC	New York Telephone Company
1970	EVERGREEN HYLAN CORP	New York Telephone
	ISLAND DRESS	New York Telephone
	MERCURY CLEANG CNTRS	New York Telephone

FINDINGS

Year	Uses	Source
1970	MERCURY CLEANG CNTRS	New York Telephone
	MERCURY STOLRES MAIN OFC	New York Telephone
	NEW METHOD DRIVE IN	New York Telephone
	NEW METHOD SVCE CO INC	New York Telephone
1965	EVERGREEN HYLAN CORP	New York Telephone Company
	ISLAND DRESS	New York Telephone Company
	LUCY RAIN WEAR INC	New York Telephone Company
	LUCY RAINWEAR INC	New York Telephone Company
	MERCURY CLEANG CNTRS	New York Telephone Company
	MERCURY STORES CLNRS	New York Telephone Company
	NEW METHOD DRIVE IN	New York Telephone Company
	NEW METHOD SVCE CO INC	New York Telephone Company
1960	ISLAND DRESS	New York Telephone Company
	MERCURY STORES CLNRS	New York Telephone Company
	NEW METHOD DRIVE IN	New York Telephone Company
	NEW METHOD SVCE CO INC	New York Telephone Company

466 BAY

Year	Uses	Source
1990	GONZALEZ THOMAS	NYNEX Information Resource Company
1975	AIRPORT SVCE STA NUMBER 2	New York Telephone Company
1970	AL S BAY CITCO SVCE STA	New York Telephone
1965	P & T SVCE CNTR	New York Telephone Company
1960	EVANS AUTO SVCE	New York Telephone Company
1934	Standard Oil Co of N Y main office	R. L. Polk Co.

471 BAY

Year	Uses	Source
1928	KOEHLER F D CO SERV STA	New York Telephone

474 BAY

Year	Uses	Source
1934	Foster M H phys US Marine Hosp r	R. L. Polk Co.

478 BAY

Year	Uses	Source
1995	Trucks	NYNEX
	Ted Chevrolet Inc	NYNEX
	Body Shop	NYNEX
	Ted Chevrolet Inc	NYNEX

FINDINGS

Year	Uses	Source
1990	HARBOR ISLE CHEVROLET INC	NYNEX Information Resource Company
	HARBOR ISLE CHEVROLET INC	NYNEX Information Resource Company
	HARBOR ISLE CHEVROLET INC	NYNEX Information Resource Company
	HARBOR ISLE CHEVROLET INC	NYNEX Information Resource Company
	HARBOR ISLE CHEVROLET INC	NYNEX Information Resource Company
	HARBOR ISLE CHEVROLET INC	NYNEX Information Resource Company
	TED CHEVROLET INC	NYNEX Information Resource Company
	TED CHEVROLET INC	NYNEX Information Resource Company
	TED CHEVROLET INC	NYNEX Information Resource Company
	TED CHEVROLET INC	NYNEX Information Resource Company
1984	TED CHEVROLET INC BODY SHOP	New York Telephone
	TED CHEVROLET INC BODY SHOP	New York Telephone
	TED CHEVROLET INC	New York Telephone
	TED CHEVROLET INC	New York Telephone
	TED CHEVROLET INC	New York Telephone
	TED CHEVROLET INC	New York Telephone
1979	KING CHEVROLETINC	New York Telephone
1975	KING CHEVROLET INC	New York Telephone Company
1970	KING CHEVROLET INC	New York Telephone
1960	US GOVERNMENT TREASURY DEPT INTERNAL REVENUE SVCE DISTRICT DIRECTOR LOWER M	New York Telephone Company
1928	RICHMOND AUTO CORP	New York Telephone
	S I GARAGE INC	New York Telephone

480 BAY

Year	Uses	Source
1995	Coastal Plumbing Supl Co Inc	NYNEX
	Advantage Marketing	NYNEX
1960	NEW YORK STATE OF LABOR DEPT OF	New York Telephone Company
	US GOVERNMENT DEPT OF HEALTH EDUCATION & WELFARE SOCIAL SECURITY ADMIN FOR	New York Telephone Company
1934	Studebaker Salesroom & Service Station Island Motor Corp	R. L. Polk Co.
	Oleth Fredk shop clk r	R. L. Polk Co.
	Island Motor Corp NY cap $15 000 Walter B Bodenhausen pres Ernest Lindermann sec Herman C Nordenholt treas	R. L. Polk Co.
1928	ISLAND MOTOR CORP	New York Telephone
	STUDEBAKER SALESROOM & SERV STA	New York Telephone

FINDINGS

489 BAY

Year	Uses	Source
1934	Mc Ateer Chas F Inc coal	R. L. Polk Co.
1928	MCATEER CHAS F INC COAL	New York Telephone

490 BAY

Year	Uses	Source
1990	CLYDES RESTRNT	NYNEX Information Resource Company
	RAPINO JANE	NYNEX Information Resource Company
1984	ROBB R	New York Telephone
1979	BILL BAILEY S TAVERN	New York Telephone
1975	MILK & HERO HAVEN INC	New York Telephone Company
1970	REITER BONITA J	New York Telephone
	ALBERT HOWARD A	New York Telephone
1960	LUNDQUEST CARL	New York Telephone Company
1934	Fisch Chas Ida pres treas Richmond Dyeing & Cleaning Corp h	R. L. Polk Co.
1928	RICH DYEING & CLEANING CORP FACTORY	New York Telephone

491 BAY

Year	Uses	Source
1995	Mc Donalds	NYNEX
1934	Buagues John r	R. L. Polk Co.
	Espinos Peter Ruth formn h	R. L. Polk Co.

492 BAY

Year	Uses	Source
1990	TEEGARDON CALVIN L	NYNEX Information Resource Company
1979	BUTTINO THERESA	New York Telephone
1975	DELAESE ESTELA	New York Telephone Company
1970	DREAM LOUNGE	New York Telephone
1965	VARVOUTIS ERNTEST A	New York Telephone Company
	FRANK S PARAMOUNT CAFE	New York Telephone Company
	DAY M M	New York Telephone Company
1960	VARVOUTIS ERNEST A	New York Telephone Company
	PARAMOUNT CAFETERIA	New York Telephone Company
	MARTINEZ S	New York Telephone Company
1934	Richmond Dyeing & Cleaning Corp NY Chas Fish pres treas Ida Fish sec	R. L. Polk Co.

FINDINGS

495 BAY

Year	Uses	Source
1960	INTERNATL BROTHERHOOD OF BOILER MAKERS LOCAL 53	New York Telephone Company
1934	Morgan D clnr r	R. L. Polk Co.
1928	K A P MOTOR CO	New York Telephone

498 BAY

Year	Uses	Source
1990	KENE D	NYNEX Information Resource Company
	GOMEZ A	NYNEX Information Resource Company
1984	HOME FINDERS USA	New York Telephone
	GOMEZ A	New York Telephone
	CORCORAN WILLIAM	New York Telephone
1979	GOMEZ A	New York Telephone
1975	VEGA MARGARET	New York Telephone Company
1970	CUPO NICHOLAS BRBR	New York Telephone
	FREEPORT BARBR SHOP	New York Telephone
1965	FREEPORT BARBR SHOP	New York Telephone Company
	CUPO NICHOLAS BRBR	New York Telephone Company
1960	CUPO NICHOLAS BRBR	New York Telephone Company
	FREEPORT BARBR SHOP	New York Telephone Company
1934	Rensmann Louis h	R. L. Polk Co.
	Baasier Adam Louisa barber	R. L. Polk Co.

500 BAY

Year	Uses	Source
1984	FLYNN WILLIAM J	New York Telephone
1979	NARROWS TAVERN	New York Telephone
	VASQUEZ M	New York Telephone
1975	VASQUEZ M	New York Telephone Company
	NARROWS TAVERN	New York Telephone Company
1970	DELMAR JON	New York Telephone
	NAMIS H	New York Telephone
	NARROWS TAVERN	New York Telephone
1965	ADAMS HELEN MRS	New York Telephone Company
	NARROWS TAVERN	New York Telephone Company
	REILLY JAS E	New York Telephone Company
1960	CHANDLER RICHD	New York Telephone Company
	CHANDLER RICHD	New York Telephone Company

FINDINGS

Year	Uses	Source
1960	NARROWS TAVERN	New York Telephone Company
1934	Marshall Henry J Helen mate dept P&S h	R. L. Polk Co.

501 BAY

Year	Uses	Source
1984	SCHULMAN LUMBR CO INC	New York Telephone
	STAPLETON LUMBER CO	New York Telephone
	STAPLETON LUMBR CO	New York Telephone
1979	SCHULMAN LUMBER	New York Telephone
	SCHULMAN LUMBR CO INC	New York Telephone
	STAPLETON LUMBR CO	New York Telephone
1975	SCHULMAN LUMBR CO INC	New York Telephone Company
	STAPLETON LUMBR CO	New York Telephone Company
1970	STAPLETON LUMBR CO	New York Telephone
	SCHULMAN LUMBR CO INC	New York Telephone
1965	STAPLETON LUMBR CO	New York Telephone Company
	SCHULMAN BARNEY LUMBR CO INC	New York Telephone Company
1960	STAPLETON LUMBR CO	New York Telephone Company
	SCHULMAN BARNEY LUMBR CO INC	New York Telephone Company
1934	Consumers Lumber Co Inc	R. L. Polk Co.
1928	NEW BRIGHTON LUMBER CO	New York Telephone
	LIEBOWITZ LUMBER CO	New York Telephone
	LIEBOWITZ SAML S LMBR	New York Telephone

502 BAY

Year	Uses	Source
1990	NARROW BAR & GRILL	NYNEX Information Resource Company
1934	Ferrara Edw Bridget h	R. L. Polk Co.
1928	SANDER LEO MILK CREAM MAIN OFFICE	New York Telephone
	MEADOW BROOK DAIRY MAIN OFFICE	New York Telephone

503 BAY

Year	Uses	Source
1990	KOHLMANN S FLOWERS INC	NYNEX Information Resource Company

504 BAY

Year	Uses	Source
1934	Park Sport Shop RTN Morris Angenstern sporting gds	R. L. Polk Co.

FINDINGS

506 BAY

Year	Uses	Source
1928	KLEEN HEET CO	New York Telephone

508 BAY

Year	Uses	Source
1928	RICHMOND CO MOTOR SALES CORP	New York Telephone

510 BAY

Year	Uses	Source
1990	COASTAL PLUMBING SUPL CO INC	NYNEX Information Resource Company
1984	COASTAL PLUMBING SUPL CO INC	New York Telephone
1979	COASTAL PLUMBING SUPL CO INC	New York Telephone
	ZIMMERMAN PLUMBING SUPPLY CO INC	New York Telephone
1975	ZIMMERMAN PLUMBING SUPPLY CO INC	New York Telephone Company
	COASTAL PLUMBING SUPL CO INC	New York Telephone Company
	COASTAL PLUMBING SUPPLY CO INC	New York Telephone Company
1970	LULOFF CHAS G B	New York Telephone
	ZIMMERMAN PLUMBING SUPL CO INC	New York Telephone
1965	ZIMMERMAN PLUMBING SUPL CO INC	New York Telephone Company
	LULOFF CHAS G B	New York Telephone Company
1960	LULOFF CHAS G B	New York Telephone Company
	ZIMMERMAN PLUMBING SUPL CO INC	New York Telephone Company
1934	Asmus Martha Mrs drsmkr	R. L. Polk Co.
1928	ZIMMERMAN JOS PLMBR SUPP	New York Telephone

511 BAY

Year	Uses	Source
1995	Kiran Enterprises	NYNEX
	Homeport Service Station Inc	NYNEX
	Homeport Service Station Inc	NYNEX
1990	QUALITY AUTO SALES	NYNEX Information Resource Company
	BAY STREET SVCE STA INC	NYNEX Information Resource Company
1984	BAY ST SVCE STA INC	New York Telephone

514 BAY

Year	Uses	Source
1990	INTERNATIONAL LONGSHOREMANS ASSN AFL-CIO LOCAL 920	NYNEX Information Resource Company
	TOMPKINS LODGE NO 471 F & A M	NYNEX Information Resource Company

FINDINGS

Year	Uses	Source
1984	TOMPKINS LODGE NO 471 F & A M	New York Telephone
	INTERNATIONAL LONGSHOREMANS ASSN AFL CIO LOCAL 920	New York Telephone
1979	UNITED STATES GOVERNMENT POST OFFICE DEPT BRANCH POST OFFICES	New York Telephone
1975	UNITED STATES GOVERMENT POST OFFICE DEPT BRANCH POST OFFICES	New York Telephone Company
	TOMPKINS LODGE NO 417 F & A M	New York Telephone Company
1970	TOMPKINS LODGE NO 417 F & A M	New York Telephone
	UNITED STATES GOVERNMENT POST OFFICE DEPT BRANCH POST OFFICES	New York Telephone
1965	CHURCH OF CHRIST	New York Telephone Company
	MASONIC TEMPLE	New York Telephone Company
1960	MASON TEMPLE	New York Telephone Company
1934	Van Riper Jas S Edith supt Masonic Temple h	R. L. Polk Co.
	Van Riper Isabelle tchr r	R. L. Polk Co.
	Masonic Temple Jas S Van Riper supt	R. L. Polk Co.
	Homann Fredk P carrier PO r	R. L. Polk Co.
1928	AMER RWY HYDRANT & VALVE CO	New York Telephone

517 BAY

Year	Uses	Source
1975	BONANZA SUNOCO SVCE INC	New York Telephone Company
	FOX HILLS SVCE STA INC	New York Telephone Company
1970	FOX HILLS SVCE STA INC	New York Telephone
1965	FOX HILLS SVCE STA INC	New York Telephone Company
1960	FOX HILLS SVCE STA INC	New York Telephone Company
1934	Paramount Service Station RTN Michl Mastuberti	R. L. Polk Co.

519 BAY

Year	Uses	Source
1984	WATERSIDE	New York Telephone
1979	VOLPE S TAVERN INC	New York Telephone
1975	INN PLACE THE	New York Telephone Company
1970	VOLPES RESTRNT	New York Telephone
	VOLPES TAVERN INC	New York Telephone
1965	VOLPE S TAVERN INC	New York Telephone Company

FINDINGS

520 BAY

Year	Uses	Source
1934	Tompkins Stapleton Store TN Walker C Tompkins genl mdse	R. L. Polk Co.
	Tompkins Margt wid Theo h	R. L. Polk Co.
	Downey Isabelle r	R. L. Polk Co.
	Tompkins Walker C Edna Tompkins Stapleton Store r	R. L. Polk Co.

521 BAY

Year	Uses	Source
1990	MEDINA E	NYNEX Information Resource Company
1984	CHRISTIANSEN I	New York Telephone
1970	ALBERT HAROLD	New York Telephone
1934	Carniano Anthony Stapleton Shop House r	R. L. Polk Co.
	Coppa Jos Waiter r	R. L. Polk Co.
	Kullman Louis J B Anna H guard h	R. L. Polk Co.
	Lanarducci Leo dishwasher r	R. L. Polk Co.
	Maffeti Walter chef r	R. L. Polk Co.
	Russo anthony Waiter r	R. L. Polk Co.
	Schneider Chas r	R. L. Polk Co.
	Stapleton Chop House TN Anthony Carniano restr	R. L. Polk Co.
1928	CRISTIANO D RESTAURANT	New York Telephone

523 BAY

Year	Uses	Source
1995	Souvlaki Junction Unlimited	NYNEX
1990	SOUVLAKI JUNCTION UNLIMITED	NYNEX Information Resource Company
1984	AA VENDING CORP	New York Telephone
1979	AA VENDING CORP	New York Telephone
1975	A A VENDING CORP	New York Telephone Company
	MAVOR GENESTA V	New York Telephone Company
1970	INTERNATL LONGSHOREMANS ASSN A F L-C I O LOCAL 920	New York Telephone
	MAVOR GENESTA V	New York Telephone
1965	MAVOR GENESTA V	New York Telephone Company
	INTERNATL LONGSHOREMANS ASSN AFL-IO LOCAL 920	New York Telephone Company
1960	INTERNATL LONGSHOREMANS ASSN INDEPNDNT LOCAL 920	New York Telephone Company
	MAYOR GENESTA V	New York Telephone Company

FINDINGS

Year	Uses	Source
1934	Mahnert Antoula wid Walter indrs h	R. L. Polk Co.
	Butler Chas A Cath II h	R. L. Polk Co.
	Havey Tire Co TN Herman Havedon	R. L. Polk Co.
	Hohfeld Otto lab r	R. L. Polk Co.
1928	S I STOVE REPAIR CO	New York Telephone

524 BAY

Year	Uses	Source
1934	Currie Jas mgr r	R. L. Polk Co.
	Curry Jas M br mgr Thos Roulston Inc r	R. L. Polk Co.
	Mc Govern Wm motion Picture mech r	R. L. Polk Co.
	Siemann John clk dept P&S r	R. L. Polk Co.
	Seamen Cath wid Fredk h	R. L. Polk Co.
	Seamen Dorothy r	R. L. Polk Co.
	Seamen John clk r	R. L. Polk Co.
	Schneider Margt wid Fredk h	R. L. Polk Co.

525 BAY

Year	Uses	Source
1934	Greens Sports & Toys RTN Jaco Greenberg	R. L. Polk Co.

526 BAY

Year	Uses	Source
1984	PAGE C E	New York Telephone
1979	PAGE C E	New York Telephone
1975	PAGE C E	New York Telephone Company
1960	SCHOLAR MINNIE MRS	New York Telephone Company
1934	Ratiner Nathan Leona clng & dyeing h	R. L. Polk Co.
	Clifton Auto & Storage Co Inc Cap $5 000 Harry Selznick pre Lillian Selznick sec storage	R. L. Polk Co.
	Selman Harry r Sailor S Snug Harbor PR Storage Co Inc h	R. L. Polk Co.
	Selman Lillian C Selznicks Auction Rooms Co r	R. L. Polk Co.
	Selznicks Auction Rooms Co RTN Llillian C Selzniek	R. L. Polk Co.
	Tartag Ralph Annabelle mgr S I Rug & Carpet Clng Co Inc h	R. L. Polk Co.
1928	SELZNICK H AUCTION RMS	New York Telephone
	SELZNICK H FURNITURE	New York Telephone

FINDINGS

528 BAY

Year	Uses	Source
1995	GARCIA Bardomiano	NYNEX
	MENDOZA Armando	NYNEX
1990	BUSINESS INTERIORS OF NEW YORK	NYNEX Information Resource Company
	SMITH O	NYNEX Information Resource Company
1984	ACE FURN CO INC OF S I	New York Telephone
	BUSINESS INTERIORS OF NEW YORK	New York Telephone
	HARRIS SEAGO	New York Telephone
	SMITH O	New York Telephone
1979	HARRIS SEAGO	New York Telephone
	MEANS HERBERT	New York Telephone
	ACE FURN CO INC OF S I	New York Telephone
	BUSINESS INTERIORS OF NEW YORK	New York Telephone
1975	ACE FURN CO INC OF S I	New York Telephone Company
	HARRIS SEAGO	New York Telephone Company
	MEANS HERBERT	New York Telephone Company
1970	ACE FURN CO INC OF S I	New York Telephone
1965	ACE FURN CO INC OF S I	New York Telephone Company
1960	ACE FURN COLNC OF SI	New York Telephone Company
	ACE FURN CO INC OF SI	New York Telephone Company
	FRANKLIN E V	New York Telephone Company
	SIMON C MRS	New York Telephone Company
1934	General Lighting Wares Corp NY cap $10 000 Saml Steinberg pres treas Benj B Yanow sec elec sup	R. L. Polk Co.
	Havedon Herman Frances Havey Tire Co h	R. L. Polk Co.
	Havedon Lillian r	R. L. Polk Co.
	Yanow Benj B Rose see General Lighting Wares Corp	R. L. Polk Co.
1928	GENERAL LIGLITING WARES CORP	New York Telephone
	HARVEY S A R	New York Telephone
	MILBERG H I R	New York Telephone

530 BAY

Year	Uses	Source
1995	Club Morocco	NYNEX
	Project Hospitality Admin	NYNEX
	Project Hospitality Admin	NYNEX
	Project Hospitality Admin	NYNEX

FINDINGS

Year	Uses	Source
1984	TUDOR FURN CO	New York Telephone
	TUDOR FURN CO	New York Telephone
1979	GROSSMAN BENJ RL EST	New York Telephone
	TUDOR FURN CO	New York Telephone
	TUDOR FURN CO	New York Telephone
1975	GROSSMAN BENJ RL EST	New York Telephone Company
	TUDOR FURN CO	New York Telephone Company
	TUDOR FURN CO	New York Telephone Company
1970	GROSSMAN BENJ RL EST	New York Telephone
	TUDOR FURN CO	New York Telephone
	TUDOR FURN CO	New York Telephone
1965	GROSSMAN BENJ RL EST	New York Telephone Company
	TUDOR FURN CO	New York Telephone Company
	TUDOR FURN CO	New York Telephone Company
1960	GROSSMAN BENJ RL EST	New York Telephone Company
	TUDOR FURN CO INC	New York Telephone Company
	TUDOR FURN CO INC	New York Telephone Company
1934	Asmus Louis r	R. L. Polk Co.
	Beach Emma Mrs h	R. L. Polk Co.
	Falls Margt Mrs r	R. L. Polk Co.
	May Alice Misses May Luncheonette r	R. L. Polk Co.
	Meyer Louis Margt J & L Mayer h	R. L. Polk Co.
	Stapleton Mattress & Quilt Co RTN Chas Katz	R. L. Polk Co.
1928	BROWNE & FELTEN PRNTG	New York Telephone
	MACKLIN BROS PRINTING	New York Telephone
	S I LEADER	New York Telephone

532 BAY

Year	Uses	Source
1934	Lachs Jacob r	R. L. Polk Co.
	Lippman Herman Rose Lippmians Mens Shop h	R. L. Polk Co.
	Poster Harvey r	R. L. Polk Co.
1928	RICHMOND STORE INC THE ELTHG	New York Telephone

533 BAY

Year	Uses	Source
1995	PEREZ C	NYNEX
	Tas Fresh Fruits & Vegetables	NYNEX

FINDINGS

Year	Uses	Source
1990	BOTTE KENNETH	NYNEX Information Resource Company
	REDSPOT INC	NYNEX Information Resource Company
1979	BENEDETTO S	New York Telephone
1975	HASUIKE R	New York Telephone Company
1970	KUTASSY EMERICK	New York Telephone
1965	SHREW WALLACE S	New York Telephone Company
	KUTASSY EMERICK	New York Telephone Company
1960	KUTASSY EMERICK	New York Telephone Company
	SHREVE WALLACE S	New York Telephone Company
1934	Clarke Jas Marion beverage h	R. L. Polk Co.
	Bausenbach Theresa wid Adolph h	R. L. Polk Co.
	Bausenbach Elsa elk r	R. L. Polk Co.
1928	EDGEWATER COOPERATIVE SAVING & BLDG LOAN ASSN	New York Telephone
	POLLETTE W E R	New York Telephone

534 BAY

Year	Uses	Source
1934	Herrmann Jacob A r	R. L. Polk Co.
	Herrmann Rebecca r	R. L. Polk Co.
	Nunaman Louis Josephine confr	R. L. Polk Co.
	Nunaman Louise clk r	R. L. Polk Co.
	Adamo Jacob Cath malt and hops	R. L. Polk Co.
	Herrmann Eva tchr Curtis HS Annex r	R. L. Polk Co.
1928	ADAMO JACOB JOBBER	New York Telephone
	BALLSCHMIEDER C R	New York Telephone

535 BAY

Year	Uses	Source
1984	D & M JEWELRY & PAWN SHOP	New York Telephone
	GAGLUCCI ANTHONY	New York Telephone
1979	ENGEL FRANCES V	New York Telephone
1970	DORGAN JOHN	New York Telephone
	KIRCHNER GUSTAV	New York Telephone
	KUVER B	New York Telephone
1965	DORGAN JOHN	New York Telephone Company
	KUVER BERTHA MRS	New York Telephone Company
1960	CARLSON ANNA MRS	New York Telephone Company
	DORGAN JOHN	New York Telephone Company

FINDINGS

Year	Uses	Source
1934	Hawkos Jas R Mary A h	R. L. Polk Co.
	Kuffner Chas I Julia lab h	R. L. Polk Co.
	Kuffner Rudolph C clk r	R. L. Polk Co.
	undtkr	R. L. Polk Co.
	Schaefer Dorothy clk r	R. L. Polk Co.
1928	MULLIN P H R	New York Telephone

537 BAY

Year	Uses	Source
1990	KISS KISS KILL KILL BOUTIQUE	NYNEX Information Resource Company
1979	LEE SAMUEL	New York Telephone
1975	RODRIGUEZ JOSE	New York Telephone Company
1965	NEWMAN JAS J	New York Telephone Company
	SCHAEFER FUNERAL HOME	New York Telephone Company
1960	CLOKE WM H	New York Telephone Company
	SCHAEFER FUNERAL HOME	New York Telephone Company
1934	h	R. L. Polk Co.
	Mc Mullen Jos Minnie garage	R. L. Polk Co.
1928	SCHAEFER EDMUND UNDRTMR	New York Telephone
	MATTHIUS EDW R R	New York Telephone
	MCMULLEN JOS R	New York Telephone

537 1/2 BAY

Year	Uses	Source
1928	WUEST P R	New York Telephone

538 BAY

Year	Uses	Source
1995	CLIFT R	NYNEX
	HAWKINS D	NYNEX
1990	CLIFT R	NYNEX Information Resource Company
	HAWKINS D	NYNEX Information Resource Company
1984	CLIFT R	New York Telephone
	HAWKINS D	New York Telephone
1979	CLIFT HAROLD	New York Telephone
	HAWKINS D	New York Telephone
1975	BINDER LOTTIE	New York Telephone Company
	CLIFT HAROLD L	New York Telephone Company
	HAWKINS D	New York Telephone Company

Year	Uses	Source
1970	HAWKINS D	New York Telephone
	HUEGLIN KARL F MRS	New York Telephone
	CLIFT HAROLD L	New York Telephone
1965	HICKS JOHN J	New York Telephone Company
	CLIFT HAROLD L	New York Telephone Company
1960	CLIFT HAROLD L	New York Telephone Company
	BARYLA MERRILL	New York Telephone Company
	CHAMBERS H	New York Telephone Company
1934	br	R. L. Polk Co.
	Robitzki Robt Stoker Mfg Co RTN Silard Klein Leo Zelinger	R. L. Polk Co.
1928	BAUSENBACH ELSA MISS R	New York Telephone
	NUNAMANN L CONFECTY	New York Telephone

539 BAY

Year	Uses	Source
1995	Memories Antiques Shop	NYNEX
1990	MEMORIES ANTIQUES SHOP	NYNEX Information Resource Company
	WEERAKOON TISSA	NYNEX Information Resource Company
1984	SEVERINO VICTOR B	New York Telephone
1979	NY CITY OF YOUTH CENTERS	New York Telephone
1970	ROCK JOSIE MRS	New York Telephone
1965	ROCK JOSIE MRS	New York Telephone Company
1960	ROCK JOSIE MRS	New York Telephone Company
1934	Michel Max Charlotte formn h	R. L. Polk Co.
	Cable Emma L wid Thos E h	R. L. Polk Co.
	Michel Alf r	R. L. Polk Co.
1928	CABLE E L MRS R	New York Telephone

BAY ST

420 BAY ST

Year	Uses	Source
2012	ABCO REFRIGERATION SUPPLY CO	Cole Information Services
2005	Abco Refrigeration Supply	Hill-Donnelly Information Services
2000	ABCO Refrig Supl	Cole Information Services

FINDINGS

425 BAY ST

Year	Uses	Source
2012	M PARISI & SON CONSTRUCTION CO INC	Cole Information Services
	WESTERN BEEF	Cole Information Services
	LEES FISH MARKET	Cole Information Services
2007	LEES FISH MARKET	Cole Information Services
2005	Lees Fish Market i	Hill-Donnelly Information Services
	Global Com LLC	Hill-Donnelly Information Services
	M Parisi & Son Construction Co	Hill-Donnelly Information Services
2000	Lees Fish Market	Cole Information Services
	Western Beef	Cole Information Services
	M Prs & Son Co Inc	Cole Information Services

426 BAY ST

Year	Uses	Source
2012	NEW CHOI HEE CHINESE RESTAURANT INC	Cole Information Services
2005	New Choi Hse Chinese Rstrnmt	Hill-Donnelly Information Services
2000	New Choi Hse Chin	Cole Information Services
	Maria L Hernandez	Cole Information Services

440 BAY ST

Year	Uses	Source
2005	F Lombardi & Sons Inc 1 o	Hill-Donnelly Information Services

442 BAY ST

Year	Uses	Source
2012	HARLEY DAVIDSON OF STATEN ISLAND	Cole Information Services
2005	Lombardi F 0 8a	Hill-Donnelly Information Services
	H Lombardi Michael v s	Hill-Donnelly Information Services
	Lombardi & Sons i R	Hill-Donnelly Information Services
	Harley Davidson Inc c K	Hill-Donnelly Information Services
2000	Lmbrdl F & Sons Inc	Cole Information Services
	Lombardi & Sons	Cole Information Services
	BALTIC ST INTS	Cole Information Services
	Harley Dvdsn Dir	Cole Information Services
	Michael Lombardi	Cole Information Services
	F Lombardi	Cole Information Services

FINDINGS

457 BAY ST

Year	Uses	Source
2012	DOWNTOWN STATEN ISLAND COMPANY	Cole Information Services
	BAY HARBOR MOTORS	Cole Information Services
2007	BAY HARBOR MOTORS	Cole Information Services
	STATEN ISLAND KAWASAKI	Cole Information Services
2005	Staten Island Kawasaki	Hill-Donnelly Information Services
	Bay Harbor Motors 1 R	Hill-Donnelly Information Services
2000	Station Isle Seadoo	Cole Information Services
	WILLIAM ST INTS	Cole Information Services
	Station Isle Plrs	Cole Information Services
	Station Isle Kwsk	Cole Information Services
	Mariners Cove Mrne	Cole Information Services
	Bay Harbor Motors	Cole Information Services
	Bay Harbor Motor	Cole Information Services

465 BAY ST

Year	Uses	Source
2012	A EMERGENCY LOCKSMITH	Cole Information Services
	MR CLEANERS	Cole Information Services
2007	MR CLEANERS	Cole Information Services
2005	Vinyl Tech Window Mfg Corp	Hill-Donnelly Information Services
	Happy Cleaners is 718 720 9 S	Hill-Donnelly Information Services
2000	Vinyl Tech Wndw	Cole Information Services
	Rainbow Linen	Cole Information Services
	Mr Cleaners	Cole Information Services

466 BAY ST

Year	Uses	Source
2012	DAY & NIGHT GROCERIES INC	Cole Information Services
2007	DAY & NITE GROCERY INC	Cole Information Services
2005	Atm World 2 F	Hill-Donnelly Information Services
	Day & Night Grocery 1 R	Hill-Donnelly Information Services
2000	Day Night Inc	Cole Information Services

480 BAY ST

Year	Uses	Source
2012	ADVANTAGE MARKETING CO	Cole Information Services
2007	ADVANTAGE MARKETING CO	Cole Information Services
2005	Coastal Plumbing Supply Co Inc	Hill-Donnelly Information Services

FINDINGS

Year	Uses	Source
2005	Advantage Marketing Co	Hill-Donnelly Information Services
2000	CONGRESS ST INTS	Cole Information Services
	Coastal Plbg Supl	Cole Information Services
	Advantage Mktg Co	Cole Information Services

490 BAY ST

Year	Uses	Source
2012	SUPERIOR MOTORCYCLES INC	Cole Information Services
	STEVEN KINGS NAIL SALON INC	Cole Information Services
2007	MY CAR SERVICE	Cole Information Services
	FAMOUS FISH OF STATEN ISLAND	Cole Information Services
2005	New Clifton	Hill-Donnelly Information Services
	HHarris SM 0 9s	Hill-Donnelly Information Services
	Owens Crystal V	Hill-Donnelly Information Services
	Contek	Hill-Donnelly Information Services
2000	Center Research	Cole Information Services
	Price Ins Agency	Cole Information Services
1934	Fisch Ida Mrs sec Richmond Dyeing & Cleaning Corp r	R. L. Polk Co.

491 BAY ST

Year	Uses	Source
2012	MCDONALDS	Cole Information Services
2005	Me Donalds 2 R	Hill-Donnelly Information Services
2000	Mc Donalds	Cole Information Services

492 BAY ST

Year	Uses	Source
2005	El Gran Palenque 2 R o	Hill-Donnelly Information Services
	Perez Sheree V	Hill-Donnelly Information Services
2000	Club Scandals	Cole Information Services

494 BAY ST

Year	Uses	Source
2007	PAPAZIAN PHARMACY	Cole Information Services

498 BAY ST

Year	Uses	Source
2012	LOT ASSOCIATES INC	Cole Information Services
2005	Lot Associates Inc Op	Hill-Donnelly Information Services

Year	Uses	Source
2005	Velasco Pedro	Hill-Donnelly Information Services

500 BAY ST

Year	Uses	Source
2005	No Current Listing	Hill-Donnelly Information Services
2000	WAVE ST INTS	Cole Information Services

501 BAY ST

Year	Uses	Source
2012	ILS WAYPORT	Cole Information Services

502 BAY ST

Year	Uses	Source
2012	NEXT LEVEL SALON & INTERNET LOUNGE	Cole Information Services
2007	J 316 NEXT LEVEL SALON LLC	Cole Information Services

506 BAY ST

Year	Uses	Source
2007	BROOKLYN HEBREW SCHOOL FOR SPECIAL C	Cole Information Services

510 BAY ST

Year	Uses	Source
2012	MAJOLIE BEAUTY CENTER	Cole Information Services
2007	DW VARIETY CENTER	Cole Information Services
	MAHONEY CONTRACTING SERVICS	Cole Information Services
2005	Lolly Super Store & Variety	Hill-Donnelly Information Services
	DDC Plumbing & Heating	Hill-Donnelly Information Services

511 BAY ST

Year	Uses	Source
2012	IVM LOGISTICS INC	Cole Information Services
	VANBRO MOTORS INC	Cole Information Services
	BAY ST HAND CAR WASH	Cole Information Services
	HOMEPORT SERVICE STATION INC	Cole Information Services
2007	WETLOOK AUTO DETAILING	Cole Information Services
2005	Wetlook Auto Detailing i s 9f	Hill-Donnelly Information Services
	HVano MM	Hill-Donnelly Information Services
	Vanbro Motors Inc 1 s	Hill-Donnelly Information Services
	HSist F AV a	Hill-Donnelly Information Services

Year	Uses	Source
2005	Kiran Enterprises	Hill-Donnelly Information Services
	Homeport Service Station Inc	Hill-Donnelly Information Services
2000	Hmprt Svc Sta Inc	Cole Information Services
	Wetlook Auto Dting	Cole Information Services
	Vanbro Motors Inc	Cole Information Services
	Kiran Enterprises	Cole Information Services

512 BAY ST

Year	Uses	Source
2007	CALDERON & FETZER DELI INC	Cole Information Services
	MAXI DELI	Cole Information Services

514 BAY ST

Year	Uses	Source
2012	PROJECT HOSPITALITY	Cole Information Services
	GLASER JORDAN MD	Cole Information Services
2007	GLASER JORDAN MD	Cole Information Services
2005	Glaser Jordan	Hill-Donnelly Information Services
	Project Hospitality Soup	Hill-Donnelly Information Services
2000	Daniel Tmpdns Msnc	Cole Information Services
	Project Hospty	Cole Information Services
	Stapleto Sr Ctr	Cole Information Services

519 BAY ST

Year	Uses	Source
2012	BAYVIEW LAUNDROMAT	Cole Information Services
2007	WORLDS EPSILON ENTERPRISES INC	Cole Information Services

521 BAY ST

Year	Uses	Source
2005	Samuel Sara Yeato	Hill-Donnelly Information Services
	Sesay Lilly v	Hill-Donnelly Information Services
2000	Rafael Torres	Cole Information Services
	Harry Johnson	Cole Information Services
	Annette Johnson	Cole Information Services

523 BAY ST

Year	Uses	Source
2005	Worlds Epsilon Ent Inc i R	Hill-Donnelly Information Services
	Club Upscalez	Hill-Donnelly Information Services

FINDINGS

Year	Uses	Source
2000	The Corner Grill	Cole Information Services

526 BAY ST

Year	Uses	Source
2005	No Current Listing	Hill-Donnelly Information Services
2000	Martin Valencia	Cole Information Services

528 BAY ST

Year	Uses	Source
2005	Delgado Irenes A	Hill-Donnelly Information Services
	h Moran Brenda 0 oc	Hill-Donnelly Information Services

530 BAY ST

Year	Uses	Source
2012	FURNITURE 123	Cole Information Services
	ROCAWEAR	Cole Information Services
2007	TRAINING CAMP FIRST 530 536 BAY ST I	Cole Information Services
2005	Training Camp R	Hill-Donnelly Information Services

533 BAY ST

Year	Uses	Source
2012	WINDOWRAMA	Cole Information Services
2007	ALFARO ONEL	Cole Information Services
2005	No Current Listing	Hill-Donnelly Information Services
2000	Lunch Box	Cole Information Services
	C Perez	Cole Information Services
	Gordon Fitch	Cole Information Services

535 BAY ST

Year	Uses	Source
2005	Roman Jacqueline	Hill-Donnelly Information Services

537 BAY ST

Year	Uses	Source
2005	Wyllee LH	Hill-Donnelly Information Services

538 BAY ST

Year	Uses	Source
2005	Gonzalez Juan v O	Hill-Donnelly Information Services
	Garcia Hugo 4v ow	Hill-Donnelly Information Services

Year	Uses	Source
2005	h Escamllla Bemardo 4 oi	Hill-Donnelly Information Services
	Baltazar Doroteo	Hill-Donnelly Information Services
2000	G Serrano	Cole Information Services
	Rafael Dafoya	Cole Information Services

539 BAY ST

Year	Uses	Source
2012	FTN HOME REMODELING	Cole Information Services
2007	WANNA WINDOW INC	Cole Information Services
2005	Helenas Hair i s	Hill-Donnelly Information Services
	Wanna Window Inc	Hill-Donnelly Information Services
2000	Weasa Window Inc	Cole Information Services
	Aod Unisax	Cole Information Services

BREWSTER

70 BREWSTER

Year	Uses	Source
1990	SIMON CONNI	NYNEX Information Resource Company
1984	CROWELL JAMES R	New York Telephone
1979	CROWELL JAMES R	New York Telephone
1975	CROWELL JAMES R	New York Telephone Company
1970	STRUTHWOLF HENRY J	New York Telephone
1965	CAVIANO JAS J	New York Telephone Company
1960	LONE STAR EARTH MOVING	New York Telephone Company
	SMITH PETER B	New York Telephone Company

76 BREWSTER

Year	Uses	Source
1975	PEDERSEN RAYMOND	New York Telephone Company
1970	SONN ARTHUR A	New York Telephone

80 BREWSTER

Year	Uses	Source
1984	DE CICCO PATRICK	New York Telephone
1979	CROWELL S	New York Telephone
1975	TORRES ELIGIA	New York Telephone Company
	RIVERA BENUNGNO	New York Telephone Company
1970	TORRES ELIGIA	New York Telephone
1965	NEDWIDEK WM J	New York Telephone Company

Year	Uses	Source
1960	NEDWIDEK WM J	New York Telephone Company
	ESTES EVERETT F	New York Telephone Company

82 BREWSTER

Year	Uses	Source
1990	MARSHALL L	NYNEX Information Resource Company
	MARSHALL A	NYNEX Information Resource Company
1984	MARSHALL A	New York Telephone
1975	MARSHALL WALTER	New York Telephone Company
1970	CIRIGLIANO BEN	New York Telephone
1965	CIRIGLIANO BEN	New York Telephone Company

84 BREWSTER

Year	Uses	Source
1975	TULLU JOHN	New York Telephone Company
1970	TULLY J G JR MD	New York Telephone
1965	MAYER GEO JR	New York Telephone Company
1960	MAYER GEO JR	New York Telephone Company
1928	SIMONSON H M MISS R	New York Telephone

88 BREWSTER

Year	Uses	Source
1990	DE CICCO PATRICK	NYNEX Information Resource Company
1979	DECICCO PATRICK	New York Telephone
1975	COOK G	New York Telephone Company
	DECICCO PATRICK	New York Telephone Company
	DIMARZIO L	New York Telephone Company
1970	FERGUSON HAROLD G	New York Telephone
1965	FERGUSON HAROLD G	New York Telephone Company
1960	FERGUSON HAROLD G	New York Telephone Company

90 BREWSTER

Year	Uses	Source
1990	ROBERTS THERESA	NYNEX Information Resource Company
	SANYA JERRY	NYNEX Information Resource Company
1979	DOPWELL KELVIN W	New York Telephone
	THOMAS DOMINGO	New York Telephone
1975	PROCINSKY OLEH M	New York Telephone Company
	WHITE BENJAMIN	New York Telephone Company
1970	MATHIASEN MATHIAS	New York Telephone

Year	Uses	Source
1970	MATHIASEN R	New York Telephone
	O CONNELL RICHARD F	New York Telephone
1965	CUMMINGS MARY L	New York Telephone Company
	CUMMINGS RICHD	New York Telephone Company
1960	CUMMINGS MARY L	New York Telephone Company
	CUMMINGS RICHD	New York Telephone Company
1928	CUMMINGS C E R	New York Telephone

92 BREWSTER

Year	Uses	Source
1990	WOOD DAVID MICHAEL	NYNEX Information Resource Company
	MARTINEZ STEVEN	NYNEX Information Resource Company
1979	TORRE C	New York Telephone
	MURRAY G	New York Telephone
1975	PARROTT WILLIAM	New York Telephone Company
	GINSBERG BRUCE	New York Telephone Company
1970	KITCHEN MURIEL MRS	New York Telephone
1965	KITCHEN MURIEL MRS	New York Telephone Company
1960	GALLAGHER V	New York Telephone Company
1928	MEYER A MRS R	New York Telephone

94 BREWSTER

Year	Uses	Source
1990	MANAHAN KAREN	NYNEX Information Resource Company
1979	BRAXTON E	New York Telephone
1975	BRAXTON EMANUEL J	New York Telephone Company
	THOMAS RICHARD	New York Telephone Company
1970	CUMMINGS RICHD	New York Telephone
1965	NOETH HANS	New York Telephone Company
1960	HUY LE BROECK THOS J	New York Telephone Company

BREWSTER ST

70 BREWSTER ST

Year	Uses	Source
2005	U Pierce Kentledge AO o	Hill-Donnelly Information Services
2000	Conni Simon	Cole Information Services
1995	SIMON Conn	NYNEX
1934	Eckard Elsie r	R. L. Polk Co.
	Esterbrook Anna wid Thos h	R. L. Polk Co.

Year	Uses	Source
1934	Gleason Kath wid Walter h	R. L. Polk Co.
	Garrigan Raymond clk r	R. L. Polk Co.
	Garrigan Howard clk r	R. L. Polk Co.

76 BREWSTER ST

Year	Uses	Source
2005	Ba Hie Walter Av	Hill-Donnelly Information Services
2000	Salvador Mejia	Cole Information Services
1934	Kirkgard Nials Fannie horseshoer h	R. L. Polk Co.

80 BREWSTER ST

Year	Uses	Source
2005	h Phillips Deborah AV as	Hill-Donnelly Information Services
	Samuels J	Hill-Donnelly Information Services
1934	Morzgrow Charlotte wid John r	R. L. Polk Co.
	Kostricza John clk r	R. L. Polk Co.
	Kostricza Arth Eva lab h	R. L. Polk Co.
	Kostricza Alex rec elk r	R. L. Polk Co.
	Knutzen Amanda wid Peter h	R. L. Polk Co.
	Kastricza Arth water tender Dept Plants & Structures r	R. L. Polk Co.
	Morzgrow Charlotte wid John r	R. L. Polk Co.

82 BREWSTER ST

Year	Uses	Source
2005	H Marshall L AO	Hill-Donnelly Information Services
2000	A Marshall	Cole Information Services
1995	MARSHALL A	NYNEX
1934	Alexander Thos G A clk r	R. L. Polk Co.
	Martin Chas C h	R. L. Polk Co.

84 BREWSTER ST

Year	Uses	Source
2005	h Hok Anton A	Hill-Donnelly Information Services
2000	Edward O Foster	Cole Information Services
1934	Mayer Geo jr statistician r	R. L. Polk Co.
	Simonson Helen M h	R. L. Polk Co.

FINDINGS

88 BREWSTER ST

Year	Uses	Source
2007	BIOHAZARD	Cole Information Services
2005	H Decicco Cheryl Av	Hill-Donnelly Information Services
2000	Patrick Decicco	Cole Information Services
1995	DECICCO Patrick	NYNEX
1934	Marschall Frank J Edith h	R. L. Polk Co.

90 BREWSTER ST

Year	Uses	Source
2005	h Clark Doreen v	Hill-Donnelly Information Services
	n Vlelra Luls	Hill-Donnelly Information Services
2000	Luis Vieira	Cole Information Services
	Doreen Clark	Cole Information Services
1995	PINHEIRO Phyllis W	NYNEX
1934	Cummings Grace sten r	R. L. Polk Co.
	Cummings Mary sten r	R. L. Polk Co.
	Cummings Mary L wid Jas	R. L. Polk Co.
	Sullivan Wm r	R. L. Polk Co.
	Cummings Louisa wid Cornelius	R. L. Polk Co.

92 BREWSTER ST

Year	Uses	Source
2005	H Wood David Michael AO	Hill-Donnelly Information Services
2000	David M Wood	Cole Information Services
1995	WOOD David Michael	NYNEX
1934	Cain Jas A ins eng Mhn r	R. L. Polk Co.
	Meyer Eva sten r	R. L. Polk Co.
	Meyer Augusta wid Henry h	R. L. Polk Co.

94 BREWSTER ST

Year	Uses	Source
2005	H Smith PH	Hill-Donnelly Information Services
	HManahan Karen	Hill-Donnelly Information Services
2000	Karen Manahan	Cole Information Services
1995	MANAHAN Karen	NYNEX
1934	Koster Mary r	R. L. Polk Co.
	Cowan John jr lab r	R. L. Polk Co.
	Cowan John Eliz pkr h	R. L. Polk Co.
	Cowan Florence slswn r	R. L. Polk Co.

FINDINGS

CLINTON ST

1 CLINTON ST

Year	Uses	Source
2000	98 98 CT 21 SE	Cole Information Services
	HAGSTROM MAP LOC	Cole Information Services
	VAN DUZER ST INTS	Cole Information Services

12 CLINTON ST

Year	Uses	Source
2005	HVassall J	Hill-Donnelly Information Services
	Gannon Paul A	Hill-Donnelly Information Services
	h Willis Dalvd 0v	Hill-Donnelly Information Services
2000	Apartments Monica Jensen	Cole Information Services
	K Parker	Cole Information Services
	Kathryn Parker	Cole Information Services
	David Willis	Cole Information Services
	Frank Carrigan	Cole Information Services
	Kevin Branciforte	Cole Information Services
	A Malachowsky	Cole Information Services
	A Malachowsky	Cole Information Services
1995	MOSLEY Kim	NYNEX
1934	KAPLAN PHILIP Jennie House Wreckers	R. L. Polk Co.
	h	R. L. Polk Co.
	Kalpan Rolbt clk r	R. L. Polk Co.
	Kalpan Sam Chauf r	R. L. Polk Co.
	Mc Andrew Jas Cath G porter h	R. L. Polk Co.

13 CLINTON ST

Year	Uses	Source
1995	BAROMETER AIR CONDITIONING CORP	NYNEX

14 CLINTON ST

Year	Uses	Source
2005	H Carrigan Frank AO	Hill-Donnelly Information Services
1934	Killimeyer Lucinda r	R. L. Polk Co.
	Killimeyer Henry Jr bus driver r	R. L. Polk Co.
	Killimeyer Dorothy r	R. L. Polk Co.
	Killimeyer Henry Lillian E police h	R. L. Polk Co.

16 CLINTON ST

Year	Uses	Source
2005	HBrandirfbrte KG o	Hill-Donnelly Information Services
	h Weiss Edward	Hill-Donnelly Information Services
1934	Martin Percy R Martha V wtchmn h	R. L. Polk Co.

18 CLINTON ST

Year	Uses	Source
2005	6 Malachowsky A AO	Hill-Donnelly Information Services
1995	MALACHOWSKY David	NYNEX

20 CLINTON ST

Year	Uses	Source
1934	Karp Edmund T drftsmn Bur of Engineering r	R. L. Polk Co.

23 CLINTON ST

Year	Uses	Source
1934	Graham Jas S real est ft Lincoln av Mid Bch h	R. L. Polk Co.

26 CLINTON ST

Year	Uses	Source
1934	Hafner John A Ethel h	R. L. Polk Co.
	OConnor Edw J Margt formn BPres h	R. L. Polk Co.

CONGRESS

12 CONGRESS

Year	Uses	Source
1979	TEKSONIC MFG CO	New York Telephone

14 CONGRESS

Year	Uses	Source
1990	CARL S AUTO BODY OF S I INC	NYNEX Information Resource Company
1984	CAIRL S AUTO BODY OF S I INC	New York Telephone
1975	CARL S AUTO BODY & FENDER REPRS	New York Telephone Company
1965	CARL S AUTO BODY & FENDER REPRS	New York Telephone Company
1960	CARL S AUTO BODY & FENDER REPRS	New York Telephone Company
1928	K A P MOTOR CAR CORP	New York Telephone

FINDINGS

16 CONGRESS

Year	Uses	Source
1990	FRAUMENI VINCENT	NYNEX Information Resource Company
1975	GRIEBEL HENRY MRS	New York Telephone Company
1965	GRIEBEL HENRY MRS	New York Telephone Company
1960	GRIEBEL HENRY MRS	New York Telephone Company

20 CONGRESS

Year	Uses	Source
1990	BALLOW LARRY S	NYNEX Information Resource Company
1965	MANLY CHAS P JR	New York Telephone Company
1960	MANLY CHAS P JR	New York Telephone Company
1928	ELLIS JOHN R	New York Telephone

30 CONGRESS

Year	Uses	Source
1990	BROWN C	NYNEX Information Resource Company
1965	PIRONE MARGHERITA	New York Telephone Company
1960	PIRONE MARGHERITA	New York Telephone Company

34 CONGRESS

Year	Uses	Source
1975	DICLEMENTE JESSE	New York Telephone Company

CONGRESS ST

14 CONGRESS ST

Year	Uses	Source
2005	No Current Listing	Hill-Donnelly Information Services
1995	Congress Street Corp	NYNEX

16 CONGRESS ST

Year	Uses	Source
2005	h Langus Mary AO	Hill-Donnelly Information Services
1934	Nicholls Wm clk r	R. L. Polk Co.
	Nicholls Lawrence runner r	R. L. Polk Co.
	Nicholls Hazel r	R. L. Polk Co.
	Nicholls Geo D collr NY & Rich Gas Co r	R. L. Polk Co.
	Nicholls Edna r	R. L. Polk Co.
	Lang John F r	R. L. Polk Co.
	Nicholls Alf Susan h	R. L. Polk Co.

Year	Uses	Source
1934	Nicholls Alf Jr teller r	R. L. Polk Co.

20 CONGRESS ST

Year	Uses	Source
2005	H Ballow Larry S AC	Hill-Donnelly Information Services
2000	Larry S Ballow	Cole Information Services
1995	BALLOW Larry S	NYNEX
1934	Manly Chas P Eliz coast guard h	R. L. Polk Co.

30 CONGRESS ST

Year	Uses	Source
2005	Galindo Gladys AV	Hill-Donnelly Information Services
	H Rodriguez M AL	Hill-Donnelly Information Services
1995	BROWN C	NYNEX

CONGRESS STREET

14 CONGRESS STREET

Year	Uses	Source
1970	CARLS AUTO BODY & FENDER REPRS	New York Telephone

16 CONGRESS STREET

Year	Uses	Source
1970	DELLE DONNE FRANK	New York Telephone
	GRIEBEL HENRY MRS	New York Telephone
1960	HILL S A	New York Telephone Company

18 CONGRESS STREET

Year	Uses	Source
1965	PISARRI JOHN J	New York Telephone Company
	DEFALCO SALVATORE	New York Telephone Company
1960	PISARRI JOHN J	New York Telephone Company
	SHINSKY CAROL	New York Telephone Company

22 CONGRESS STREET

Year	Uses	Source
1970	VIGORITO LOUIS	New York Telephone
1960	VIGORITO MARGARET MRS	New York Telephone Company

FINDINGS

28 CONGRESS STREET

Year	Uses	Source
1965	FERRANTE ALBERT	New York Telephone Company

34 CONGRESS STREET

Year	Uses	Source
1970	DI CLEMENTE J	New York Telephone
	DI CLEMENTE JESSE	New York Telephone
1965	DICLEMENTE JESSE	New York Telephone Company
1960	DI CLEMENTE JESSE	New York Telephone Company
	DI CLEMENTE J	New York Telephone Company

FRONT

355 FRONT

Year	Uses	Source
1990	TACOMA CONSTR CORP	NYNEX Information Resource Company
	VINCOR STEEL CORP	NYNEX Information Resource Company

FRONT ST

277 FRONT ST

Year	Uses	Source
1934	Jones Peter Anna br mgr Concession Development Corp h	R. L. Polk Co.

303 FRONT ST

Year	Uses	Source
2000	Is Itaty crocachas	Cole Information Services
	All Star Biliards	Cole Information Services

308 FRONT ST

Year	Uses	Source
2012	HOUSE OF BILLARDS	Cole Information Services
	AAA AUTO DIESEL REPAIR	Cole Information Services
	M&H PLUMBING & HEATING	Cole Information Services

355 FRONT ST

Year	Uses	Source
2012	WEEKS	Cole Information Services
	U S NAVY	Cole Information Services

Year	Uses	Source
2012	NY CITY ECONOMIC DEVELOPMENT CORP	Cole Information Services
	LIRO ENGINEERING	Cole Information Services
2007	NEW YORK CITY ECONOMIC DEVELOPMENT C	Cole Information Services
2005	Home Port 1 p	Hill-Donnelly Information Services
	Staten Island Fleet Week Inc	Hill-Donnelly Information Services
2000	NY City Ecnic Dev	Cole Information Services
	States Isie Fk	Cole Information Services
	Thermo Hydrac Crp	Cole Information Services
	Thermo Hydrac Crp	Cole Information Services

PROSPECT AVE

467 PROSPECT AVE

Year	Uses	Source
1975	CASCADE DIAPER SVCE BKLYN	New York Telephone Company
1970	DASCADE DIAPER SVCE BKLYN	New York Telephone
1965	CASCADE DIAPER SVCE BKLYN	New York Telephone Company

562 PROSPECT AVE

Year	Uses	Source
1965	CAMPITIELLO JOS MRS	New York Telephone Company

707 PROSPECT AVE

Year	Uses	Source
1995	Gonzalez Funeral Home Inc	NYNEX
1990	GONZALEZ FUNERAL HOME INC	NYNEX Information Resource Company
1984	GONZALEZ FUNERAL HOME INC BX	New York Telephone

PROSPECT PL

555 PROSPECT PL

Year	Uses	Source
1995	Interfaith Medical Center Brooklyn Jewish Hospital Site	NYNEX

PROSPECT ST

511 PROSPECT ST

Year	Uses	Source
2005	No Current Listing	Hill-Donnelly Information Services

FINDINGS

S WILLIAM STREET

17 S WILLIAM STREET

Year	Uses	Source
1965	ALESSI BROS INC OFC FURN	New York Telephone Company
1960	ALESSI BROS INC OFC FURN	New York Telephone Company

SANDS

27 SANDS

Year	Uses	Source
1990	ALL BROTHER S	NYNEX Information Resource Company
1984	ALL BROTHERS	New York Telephone
1979	RINASCENTE IRON WORKS INC	New York Telephone
1965	ENTERPRISE WELDING WKS	New York Telephone Company
	TYE AVIN WELDNG	New York Telephone Company
1960	ENTERPRISE WELDING WKS	New York Telephone Company
	TYE ALVIN WELDNG	New York Telephone Company

40 SANDS

Year	Uses	Source
1984	DANS CYCLE SHOP	New York Telephone
1979	DAN S CYCLE SHOP	New York Telephone
1975	DAN S CYCLE SHOP	New York Telephone Company

56 SANDS

Year	Uses	Source
1984	EARTHLY DELIGHTS	New York Telephone
1979	ERICSON GEORGE JR B	New York Telephone
	EARTHLY DELIGHTS	New York Telephone

58 SANDS

Year	Uses	Source
1975	CHEYENNE CEILING CORP	New York Telephone Company

62 SANDS

Year	Uses	Source
1960	ILLIDGE ADA	New York Telephone Company
	WADE SAM H	New York Telephone Company

64 SANDS

Year	Uses	Source
1990	JEFFERSON THOMAS C	NYNEX Information Resource Company
	JEFFERSON THOS	NYNEX Information Resource Company
1984	JEFFERSON THOMAS C	New York Telephone
	JEFFERSON THOS	New York Telephone
1979	JEFFERSON THOS	New York Telephone
1975	JEFFERSON THOS	New York Telephone Company
1970	QUINN WILLIAM J	New York Telephone
	JEFFERSON THOS	New York Telephone
1965	YAPLE JOHN R	New York Telephone Company
	JEFFERSON THOS	New York Telephone Company
1960	SIMONCINI ANGELO A	New York Telephone Company
	JEFFERSON THOS	New York Telephone Company

65 SANDS

Year	Uses	Source
1975	LOVELACE MYRTLE MRS	New York Telephone Company
1970	LOVELACE MYRTLE MRS	New York Telephone
1965	BAIORI THOS	New York Telephone Company
	SCHULMAN A	New York Telephone Company
1960	SCHULMAN A	New York Telephone Company
	SCHULMAN LEONARD	New York Telephone Company

68 SANDS

Year	Uses	Source
1990	ESHUN JOHN	NYNEX Information Resource Company
	AGGARWAL DEEP	NYNEX Information Resource Company
1965	BELL VICTOR A	New York Telephone Company
1960	DOUGHERTY AMBROSE	New York Telephone Company
	BELL VICTOR A	New York Telephone Company

69 SANDS

Year	Uses	Source
1965	FULCHER E A	New York Telephone Company
1960	FULCHER E A	New York Telephone Company

70 SANDS

Year	Uses	Source
1990	SINDICIC IVAN	NYNEX Information Resource Company
	ARAPI DZELAL	NYNEX Information Resource Company

Year	Uses	Source
1984	SINDICIC IVAN	New York Telephone
	JACKSON V	New York Telephone
1979	SINDICIC IVAN	New York Telephone
	KRSTINIC IVAN	New York Telephone
1975	SINDICIC IVAN	New York Telephone Company
1970	NIKOLIC MAX JR	New York Telephone
	NIKOLIC MAX	New York Telephone
1965	MANISCALCO V	New York Telephone Company
1960	MANISCALCO V	New York Telephone Company

71 SANDS

Year	Uses	Source
1975	REGISTER B	New York Telephone Company
1970	GIVENS CLAUDIA C	New York Telephone
1965	LOVELACE MYRTLE MRS	New York Telephone Company
1960	LOVELACE MYRTLE MRS	New York Telephone Company

72 SANDS

Year	Uses	Source
1960	PEDALINO JOS	New York Telephone Company

73 SANDS

Year	Uses	Source
1990	ATHANS DEBRA	NYNEX Information Resource Company
1984	CAMPBELL ROBERT L	New York Telephone
1970	DALE M	New York Telephone
1965	RENAUD DAVID R	New York Telephone Company
	DOLINGER FRANK	New York Telephone Company
1960	RENAUD DAVID R	New York Telephone Company

76 SANDS

Year	Uses	Source
1965	MACINTYRE DONALD J	New York Telephone Company
	CHAMBERS HARRY C	New York Telephone Company
1960	THOMSON ROBT J	New York Telephone Company
	DELNEGRO NICHOLAS J	New York Telephone Company

80 SANDS

Year	Uses	Source
1984	MEYERS JEFFREY	New York Telephone

Year	Uses	Source
1984	MEYERS G	New York Telephone
1979	MEYERS JEFFREY	New York Telephone
	SWASEY G	New York Telephone
1975	MEYERS JEFFREY	New York Telephone Company
1965	JUABAN JUAN B	New York Telephone Company

82 SANDS

Year	Uses	Source
1990	CARPENTER JOHN C & S E	NYNEX Information Resource Company
1979	MEYER HARRY J	New York Telephone
1975	MEYER HARRY J	New York Telephone Company
1970	VAUGHEY V	New York Telephone
	MEYER HARRY J	New York Telephone
	DALY CAROLINE M	New York Telephone
1965	MEYER HARRY J	New York Telephone Company
	DALY CAROLINE M	New York Telephone Company
1960	DALY CAROLINE M	New York Telephone Company

84 SANDS

Year	Uses	Source
1990	HILL C	NYNEX Information Resource Company
1984	HILL C	New York Telephone
1975	MCCALIP JAMES	New York Telephone Company
1970	SPICER CATHERINE	New York Telephone
1965	SPICER CATHERINE	New York Telephone Company
	DESHAE MARION R RN	New York Telephone Company
	DESHAE JAS F	New York Telephone Company
1960	BROWNE HARRY	New York Telephone Company
	DRESING A I	New York Telephone Company

91 SANDS

Year	Uses	Source
1990	YODICE BRENDA STATEN ISLAND	NYNEX Information Resource Company
	WINANS N J	NYNEX Information Resource Company
1984	DANIELS HAZEL	New York Telephone
1975	POLITIS STEVE	New York Telephone Company
	KALLAIXHI KUJITM	New York Telephone Company
1970	POLITIS STEVE	New York Telephone
	FAIR M A	New York Telephone

Year	Uses	Source
1965	ELLIS JOHN	New York Telephone Company
1960	ELLIS JOHN	New York Telephone Company

SANDS ST

12 SANDS ST

Year	Uses	Source
2000	Family Restor	Cole Information Services

18 SANDS ST

Year	Uses	Source
1934	Stollmeyor Theresa wid John r	R. L. Polk Co.

23 SANDS ST

Year	Uses	Source
2007	X TREME TERMITE & PEST CONTROL	Cole Information Services
	JB PEST CONTROL INC	Cole Information Services
	ELUXURYTIME COM	Cole Information Services
2005	Air Care Corp	Hill-Donnelly Information Services
	Eluxurytime Com 1s 3 B Pest Control Inc s	Hill-Donnelly Information Services

27 SANDS ST

Year	Uses	Source
2012	ALL BROTHERS AUTO BODY	Cole Information Services
2007	ALL BROTHERS AUTO REPAIR	Cole Information Services
2005	All Brothers Auto Body 1 F	Hill-Donnelly Information Services
2000	All Bros Auto Body	Cole Information Services
1995	All Brothers Auto Body	NYNEX

30 SANDS ST

Year	Uses	Source
2007	HYBRID PRODUCTS CORP	Cole Information Services

32 SANDS ST

Year	Uses	Source
2012	HALL ON THE BAY	Cole Information Services

34 SANDS ST

Year	Uses	Source
2005	h Caputo Anthony a	Hill-Donnelly Information Services

FINDINGS

Year	Uses	Source
2005	Tract 36085:15 odd s	Hill-Donnelly Information Services
	Tract 36085:21 even s	Hill-Donnelly Information Services
2000	Anthony Caputo	Cole Information Services
	Wave Street Studies	Cole Information Services

40 SANDS ST

Year	Uses	Source
2000	Brbgill Home	Cole Information Services

41 SANDS ST

Year	Uses	Source
2000	HAGSTROM MAP LOC	Cole Information Services

56 SANDS ST

Year	Uses	Source
2012	TELENTOS CONSTRUCTION CORP	Cole Information Services
2007	GINA LIMOUSINE SERVICES LTD	Cole Information Services
2005	Ginas Limousine Svc LTD	Hill-Donnelly Information Services
	Chris Limousines	Hill-Donnelly Information Services
1995	Omega Service Mintenance	NYNEX

64 SANDS ST

Year	Uses	Source
2005	h Baldassare Mane A	Hill-Donnelly Information Services
	H Jefferson Thomas A	Hill-Donnelly Information Services
2000	Thomas Jefferson	Cole Information Services
1995	JEFFERSON Thos	NYNEX
1934	Every Howard H Susan linoleum lyr h	R. L. Polk Co.

65 SANDS ST

Year	Uses	Source
2005	HSaye J A o	Hill-Donnelly Information Services
2000	J Saye	Cole Information Services
1995	SAYE J	NYNEX

68 SANDS ST

Year	Uses	Source
2005	No Current Listing	Hill-Donnelly Information Services
1995	DUNCAN Elianna	NYNEX

FINDINGS

69 SANDS ST

Year	Uses	Source
2005	h Castllas Elsa	Hill-Donnelly Information Services
	figueroa RF	Hill-Donnelly Information Services

70 SANDS ST

Year	Uses	Source
2005	h Kashkin Serger	Hill-Donnelly Information Services
	HSi Jdiuc I Mr A	Hill-Donnelly Information Services
2000	Mr I Sindinic	Cole Information Services
	Sergai Kashkin	Cole Information Services
	R Kachkin Sindici	Cole Information Services
1995	SINCLAIR Ivan	NYNEX
	ARAPI Dzelal	NYNEX
1934	Shaw Dorothy clnr r	R. L. Polk Co.
	Schmieder Helen cash St George Theatre Co Inc r	R. L. Polk Co.

71 SANDS ST

Year	Uses	Source
2005	Zemnpoaltecatl Vicente	Hill-Donnelly Information Services
2000	Randll Mc Cann	Cole Information Services

72 SANDS ST

Year	Uses	Source
2005	h Emanuel Mary	Hill-Donnelly Information Services
2000	WAVE ST INTS	Cole Information Services

73 SANDS ST

Year	Uses	Source
2005	No Current Listing	Hill-Donnelly Information Services
2000	Anthony Carter	Cole Information Services
	Tanara Brown	Cole Information Services

76 SANDS ST

Year	Uses	Source
2007	CJE HOME IMPROVEMENT CORP	Cole Information Services
2005	Jackseon James C Wise Harold 3 A	Hill-Donnelly Information Services
2000	Shelly Nelson	Cole Information Services

FINDINGS

80 SANDS ST

Year	Uses	Source
2005	No Current Listing	Hill-Donnelly Information Services
2000	S Boykin	Cole Information Services

82 SANDS ST

Year	Uses	Source
2005	HAdutwumi YAA	Hill-Donnelly Information Services
	h Klley Mark A	Hill-Donnelly Information Services
2000	Apartments	Cole Information Services
	Mark Kiley	Cole Information Services
	J Schaming	Cole Information Services
	Michel Schaming	Cole Information Services
1995	KILEY Mark	NYNEX
	SCHAMING John	NYNEX

84 SANDS ST

Year	Uses	Source
2005	MHIC	Hill-Donnelly Information Services
2000	C Hill	Cole Information Services

91 SANDS ST

Year	Uses	Source
2005	No Current Listing	Hill-Donnelly Information Services
1995	WINANS N J	NYNEX

VAN DUZER

244 VAN DUZER

Year	Uses	Source
1975	LEY P A	New York Telephone Company

246 VAN DUZER

Year	Uses	Source
1984	HESSION NICHOLAS	New York Telephone
	HESSION G	New York Telephone
	HESSION LEONARD	New York Telephone
1979	HESSION NICHOLAS	New York Telephone
	HESSION LEONARD	New York Telephone
	HESSION G	New York Telephone
1975	HESSION NICHOLAS	New York Telephone Company

Year	Uses	Source
1975	HESSION LEONARD	New York Telephone Company
	HESSION G	New York Telephone Company
1970	WAUTERS KARIN	New York Telephone

247 VAN DUZER

Year	Uses	Source
1990	MALACHOWSKY DAVID	NYNEX Information Resource Company

253 VAN DUZER

Year	Uses	Source
1975	MARIN MARTA E	New York Telephone Company
1970	OCAMPO MARGARITA	New York Telephone

254 VAN DUZER

Year	Uses	Source
1979	GATLIN VALDA	New York Telephone
1975	BELLEZZA S	New York Telephone Company

257 VAN DUZER

Year	Uses	Source
1990	SAAB PAT	NYNEX Information Resource Company
1984	JOHNSON ADAM	New York Telephone
1975	RAMOS EVA	New York Telephone Company
1928	HELWIG E MRS R	New York Telephone

258 VAN DUZER

Year	Uses	Source
1928	RUEMPLER C MRS R	New York Telephone

263 VAN DUZER

Year	Uses	Source
1990	ELFORD KEVIN ESQ	NYNEX Information Resource Company
1984	ELFORD KEVIN	New York Telephone
1979	QUINN JOHN J	New York Telephone
	QUINN JOHN J JR	New York Telephone
1975	DAY EDWARD	New York Telephone Company
	QUINN JOHN J JR	New York Telephone Company

264 VAN DUZER

Year	Uses	Source
1984	GRAY JOHN E	New York Telephone

Year	Uses	Source
1979	GRAY JOHN E	New York Telephone
1975	GRAY JOHN E	New York Telephone Company
1970	GRAY JOHN E	New York Telephone
1928	PERCY H P R	New York Telephone

268 VAN DUZER

Year	Uses	Source
1928	VAN PELT F P CAPT R	New York Telephone

269 VAN DUZER

Year	Uses	Source
1928	HELLMAN H R	New York Telephone

271 VAN DUZER

Year	Uses	Source
1975	HAMLIN BRUCE	New York Telephone Company

273 VAN DUZER

Year	Uses	Source
1975	HATTER SAMUEL	New York Telephone Company
	BROCK CHARLES G	New York Telephone Company
1970	JOMESON WILLIE L	New York Telephone

274 VAN DUZER

Year	Uses	Source
1970	MALIHAN GAUDENCIO	New York Telephone

277 VAN DUZER

Year	Uses	Source
1990	GORDON KEITH DVM	NYNEX Information Resource Company
	ALL PETS ANIMAL HOSPITAL	NYNEX Information Resource Company
	COHEN ADAM DVM	NYNEX Information Resource Company
1984	PET JUNCTION INC	New York Telephone
1979	KESHAVARZ-A MOHAAMAD MD PC	New York Telephone
1975	DIBENEDETTO GUIDO MD	New York Telephone Company
	TIGLAO C P JR MD	New York Telephone Company
1970	TIGLAO C P MD	New York Telephone

278 VAN DUZER

Year	Uses	Source
1975	HARRELL ROGER	New York Telephone Company

Year	Uses	Source
1970	JOHNSON J	New York Telephone
1928	MCROBERTS J CAPT R	New York Telephone
	SCHRIEB C MRS R	New York Telephone

281 VAN DUZER

Year	Uses	Source
1990	TRANS INFO	NYNEX Information Resource Company
1984	ADUA P T	New York Telephone
1975	CONNELLY PETER	New York Telephone Company
1970	CONNELLY PETER	New York Telephone
1928	HERRMANN E MISS R	New York Telephone

283 VAN DUZER

Year	Uses	Source
1990	POTUSEK JOHN	NYNEX Information Resource Company
	MARKE ZIJA	NYNEX Information Resource Company
1984	WILLIAMS LEWIS	New York Telephone
	POTUSEK JOHN	New York Telephone
1979	TESTA RICHARD	New York Telephone
	NOGUELRA M	New York Telephone
1975	MORAN DANIEL T	New York Telephone Company
	SCULLY JAMES JR	New York Telephone Company
	TESTA RICHARD	New York Telephone Company
1928	PERLES J L INDRA	New York Telephone

286 VAN DUZER

Year	Uses	Source
1990	POON LAP	NYNEX Information Resource Company
1984	POWELL HWA CHANG	New York Telephone
1975	HENSEN JOHN	New York Telephone Company
1970	HENSEN JOHN	New York Telephone
	CONTE JAMES	New York Telephone

292 VAN DUZER

Year	Uses	Source
1990	PANNUCCI C	NYNEX Information Resource Company
	FRANCIS CESAR	NYNEX Information Resource Company
	KALABOVIC MUSTAFA	NYNEX Information Resource Company
	NIKOVIC HAVA	NYNEX Information Resource Company
	MOZART ON FIFTH	NYNEX Information Resource Company

Year	Uses	Source
1990	RICHARDSON ANITA	NYNEX Information Resource Company
1928	DEMOCRATIC HDQTRS	New York Telephone
	SOMERS ADL R	New York Telephone

293 VAN DUZER

Year	Uses	Source
1990	TUNNING CLARENCE	NYNEX Information Resource Company
	GIGGLES	NYNEX Information Resource Company
	DEPAOLIS LOU	NYNEX Information Resource Company
	ALLEN T M	NYNEX Information Resource Company
1984	GIGGLES	New York Telephone
1979	RAISLEY COTTAGE INN	New York Telephone
1928	YE COTTAGE INN	New York Telephone

294 VAN DUZER

Year	Uses	Source
1990	HOPPER PAUL	NYNEX Information Resource Company

297 VAN DUZER

Year	Uses	Source
1990	HAUSSLER B	NYNEX Information Resource Company
1984	CRUZ L	New York Telephone
1975	LAMBRAIA GUIDO	New York Telephone Company

300 VAN DUZER

Year	Uses	Source
1990	JACKSON C R	NYNEX Information Resource Company
1984	PREVOSTI NICHOLAS	New York Telephone
	PANNUCCI V	New York Telephone
	MUMM D	New York Telephone
	GIBBONS JOSEPH	New York Telephone
1979	SPIERER R S	New York Telephone
1975	SPIERER R S	New York Telephone Company
1928	SCHUSTER A UNDERTAKER	New York Telephone

304 VAN DUZER

Year	Uses	Source
1928	MCROBERTS ROBT R	New York Telephone

FINDINGS

305 VAN DUZER

Year	Uses	Source
1975	SOTO ANTHONY	New York Telephone Company
1928	ISRAEL M LADIES TLR	New York Telephone

307 VAN DUZER

Year	Uses	Source
1928	RODEWALD F HDWRE	New York Telephone

310 VAN DUZER

Year	Uses	Source
1990	TROTSKY J	NYNEX Information Resource Company
1984	TROTSKY J	New York Telephone
1975	MUSTO ANTHONY	New York Telephone Company

311 VAN DUZER

Year	Uses	Source
1990	WILLIAMS L	NYNEX Information Resource Company
1984	SANTILLO C ALFRED & GLORIA	New York Telephone
	MOON J	New York Telephone
1975	COLLIDGE Z	New York Telephone Company
1960	GAREFALOS JAS A	New York Telephone Company

315 VAN DUZER

Year	Uses	Source
1979	LAMAZZR FRANK	New York Telephone
1975	LAMAZZA FRANK	New York Telephone Company
1970	SMIEYA RICHARD	New York Telephone

319 VAN DUZER

Year	Uses	Source
1984	POWELL RICHARD	New York Telephone
1975	SILVERMAN C	New York Telephone Company
1928	BOSE H R	New York Telephone

324 VAN DUZER

Year	Uses	Source
1990	BUROW JOHN	NYNEX Information Resource Company
1975	NOWAKOWSKI J	New York Telephone Company
1928	SHUDTZ CHAS N R	New York Telephone

327 VAN DUZER

Year	Uses	Source
1990	GARCIA ARMANDO	NYNEX Information Resource Company
1984	WILLIAMS N	New York Telephone
1970	LAMBERT CLAUDE	New York Telephone

328 VAN DUZER

Year	Uses	Source
1990	KYNE VINCENT P	NYNEX Information Resource Company
1984	TARTAGLIONE P	New York Telephone
	LEVENDOSKY ROBERT	New York Telephone
1928	ROST FRANK R	New York Telephone

329 VAN DUZER

Year	Uses	Source
1984	PICIOCCO H	New York Telephone
1979	PICIOCCO H	New York Telephone
1975	DAVIS WILLIAM	New York Telephone Company
	PICIOCCO H	New York Telephone Company

330 VAN DUZER

Year	Uses	Source
1990	STAVOLA MICHAEL	NYNEX Information Resource Company
1984	SULLO PATSY	New York Telephone
	STAVOLA MICHAEL	New York Telephone
1979	SULLO PATSY	New York Telephone
	STAVOLA MICHAEL	New York Telephone
1975	SULLO PATSY	New York Telephone Company
	STAVOLA MICHAEL	New York Telephone Company
1970	STAVOLA MARY	New York Telephone
1928	PLUMB M MRS RN	New York Telephone

333 VAN DUZER

Year	Uses	Source
1970	BROWN ROBERT	New York Telephone

335 VAN DUZER

Year	Uses	Source
1990	COOMARASINGHAM RAVINDRAN	NYNEX Information Resource Company
1975	CATELLA E	New York Telephone Company
1928	GERLIP F C R	New York Telephone

336 VAN DUZER

Year	Uses	Source
1984	DELGADO C	New York Telephone
1979	NELSON WALTER	New York Telephone
1975	NELSON WALTER	New York Telephone Company
1970	BRIER FREDERICK	New York Telephone

337 VAN DUZER

Year	Uses	Source
1990	HI-TECH DIAGNOSTIC CNTR	NYNEX Information Resource Company
1984	VANDUZER SVCE STA	New York Telephone
1979	VAN DUZER SVCS STA	New York Telephone
1975	VAN DUZER SVCE STA	New York Telephone Company
1970	MANFREDI S SVCE STA	New York Telephone

VAN DUZER ST

244 VAN DUZER ST

Year	Uses	Source
2005	No Current Listing	Hill-Donnelly Information Services
1934	Nedwidok Wm Grace ship clk Mhn h	R. L. Polk Co.

245 VAN DUZER ST

Year	Uses	Source
1934	Foster Lillian W h	R. L. Polk Co.

246 VAN DUZER ST

Year	Uses	Source
2005	h Hession James AO	Hill-Donnelly Information Services
	H Monaco Vincent A	Hill-Donnelly Information Services
2000	A James Hession	Cole Information Services
	Aparments	Cole Information Services
	Vincent Monaco	Cole Information Services
1995	HESSION James	NYNEX
1934	Constantino Angelo lawyer	R. L. Polk Co.
	Costantino Thos Anna M stoker h	R. L. Polk Co.
	Costintino Tommaso marine stoker dept P&S r	R. L. Polk Co.
	h	R. L. Polk Co.
	Sinibaldt John jr Milldred lab h	R. L. Polk Co.
	Costantino Angelo lawyer	R. L. Polk Co.

FINDINGS

247 VAN DUZER ST

Year	Uses	Source
2005	H Seeley Nathaniel & Elzbleta	Hill-Donnelly Information Services
2000	Nathaiel Seeley	Cole Information Services
1934	Nash Burdette T Gertrude h	R. L. Polk Co.

253 VAN DUZER ST

Year	Uses	Source
2005	h Davis Richard A	Hill-Donnelly Information Services
	H Bras Jomar	Hill-Donnelly Information Services
2000	254 NP	Cole Information Services
1934	Nelson Arth Marguerite mgr Orricos Garage h	R. L. Polk Co.
	Ruempler Carroe wid Geo h	R. L. Polk Co.

254 VAN DUZER ST

Year	Uses	Source
1934	Hoffman John T Helen coast guard h	R. L. Polk Co.
	Schilling Louis Mary L coa St Guard h	R. L. Polk Co.
	Mucci Gustaf Anna carp	R. L. Polk Co.

255 VAN DUZER ST

Year	Uses	Source
2005	No Current Listing	Hill-Donnelly Information Services
2000	Mary J Raggi	Cole Information Services
1934	Ponnozzi Frank Jennie formn h	R. L. Polk Co.
	Ballard Frank formn B & ORCO h	R. L. Polk Co.
	Cashman Jos marine staker dept P & S h	R. L. Polk Co.

257 VAN DUZER ST

Year	Uses	Source
2005	h Smith P v	Hill-Donnelly Information Services
2000	P Smith	Cole Information Services
1934	Helwig Eliz Mrs r	R. L. Polk Co.
	Newhort Wm J lab h	R. L. Polk Co.
	MEWHORT THOMAS J Stapleton Sign co	R. L. Polk Co.

258 VAN DUZER ST

Year	Uses	Source
1934	Ruempler Geo r	R. L. Polk Co.
	Breiwisch Augustine Mrs confr	R. L. Polk Co.

FINDINGS

Year	Uses	Source
1934	Marvel Elmer L irene mach r	R. L. Polk Co.

263 VAN DUZER ST

Year	Uses	Source
2007	WASHINGTON DESIGN CONTRACTORS	Cole Information Services
2005	Souto Hassan v	Hill-Donnelly Information Services
	h Valentin Iris oi	Hill-Donnelly Information Services
	HWilliams H E VO	Hill-Donnelly Information Services
2000	264 271 273 NP	Cole Information Services
1934	Helsen Frank Rosa h	R. L. Polk Co.
	Mc Ardle Owen A Marion bkpr Richmond Ice Co Inc r	R. L. Polk Co.

264 VAN DUZER ST

Year	Uses	Source
2007	JOHN E GRAY ARTIST	Cole Information Services
2005	H Gray JE A&	Hill-Donnelly Information Services
1934	Hooley Mamie hsekpr r	R. L. Polk Co.
	Percy Harry P mstr mariner h	R. L. Polk Co.

268 VAN DUZER ST

Year	Uses	Source
1934	Van Pelt Francis P Clara h	R. L. Polk Co.

269 VAN DUZER ST

Year	Uses	Source
1934	Jones Robt M wtchmn r	R. L. Polk Co.
	Le Fort Edw N Mary T eng h	R. L. Polk Co.
	Sullivan Vincent W Mary sten Chf Medical Examiners Office h	R. L. Polk Co.

270 VAN DUZER ST

Year	Uses	Source
1995	P & O Containers Ltd	NYNEX

271 VAN DUZER ST

Year	Uses	Source
1934	Tatem Jos D Minnie J h	R. L. Polk Co.

FINDINGS

273 VAN DUZER ST

Year	Uses	Source
1934	Burgher Lauretta wid Chas H h	R. L. Polk Co.
	Barnaby Idilla clk h	R. L. Polk Co.
	Barnaby Livia r	R. L. Polk Co.
	Burgher Chas H clk r	R. L. Polk Co.
	Martino John H deckhand dept P&S r	R. L. Polk Co.
	Martino Hattie r	R. L. Polk Co.

274 VAN DUZER ST

Year	Uses	Source
1934	Roome Lydia wid Irving h	R. L. Polk Co.

277 VAN DUZER ST

Year	Uses	Source
2007	ALL PETS ANIMAL HOSPITAL	Cole Information Services
2005	Gordon Keith DVM 10 o	Hill-Donnelly Information Services
	Werner Michelle I DVM	Hill-Donnelly Information Services
	Gordon Keith v	Hill-Donnelly Information Services
	All Pets Animal Hospital	Hill-Donnelly Information Services
2000	All Anml Hosp	Cole Information Services
	Gordon Keith DVM	Cole Information Services
	Wener Michels DVM	Cole Information Services
1995	Gordon Keith DVM	NYNEX
	All Pets Animal Hospital	NYNEX
	Cohen Adam DVM	NYNEX
1934	Timpone Peter J Mary phys	R. L. Polk Co.
	Burke Helen dom r	R. L. Polk Co.

278 VAN DUZER ST

Year	Uses	Source
2005	Warren J P 0v	Hill-Donnelly Information Services
	Agro Gerald	Hill-Donnelly Information Services
2000	John Shea	Cole Information Services
	Roger Harrel	Cole Information Services
1995	HARRELL Roger	NYNEX
	ANDJESKI G	NYNEX
1934	Jackson Louise hsekpr r	R. L. Polk Co.
	Mc Donald Jas F Margt clk dept of taxes & assessmts r	R. L. Polk Co.

FINDINGS

279 VAN DUZER ST

Year	Uses	Source
2005	h Cornett Alberto v oi	Hill-Donnelly Information Services
1995	MCNEIL Harry	NYNEX

281 VAN DUZER ST

Year	Uses	Source
2007	VICTORIAN ROMANCE INC	Cole Information Services
2005	Flores Ericka v	Hill-Donnelly Information Services
2000	Angelina Gonzalez	Cole Information Services
1995	Trans Info Ltd	NYNEX
	Internal Security Service	NYNEX
1934	Currier Ernest Eva coast guard h	R. L. Polk Co.
	Hanbury Howard r	R. L. Polk Co.
	Independent Barber Shop TN Robt Scalzzi barbers	R. L. Polk Co.
	Buttner Chas May chauf h	R. L. Polk Co.
	Buttner Thos h	R. L. Polk Co.

282 VAN DUZER ST

Year	Uses	Source
2005	H Mangln TL AO	Hill-Donnelly Information Services
1934	Irvine Geo sls mgr Detroits Garage r	R. L. Polk Co.
	Kaplonski Leonard shoe slsmn r	R. L. Polk Co.
	Kaplonski Stanley Sophie carp	R. L. Polk Co.

283 VAN DUZER ST

Year	Uses	Source
2005	Williams Kenneth	Hill-Donnelly Information Services
	h Williams John 0v	Hill-Donnelly Information Services
	h King Debra	Hill-Donnelly Information Services
	h Garrido Ariene v	Hill-Donnelly Information Services
2000	Kennith Williams	Cole Information Services
	John Williams	Cole Information Services
	John Patusek	Cole Information Services
	Debora King	Cole Information Services
	Aparments	Cole Information Services
1995	POTUSEK John	NYNEX
1934	Sampo Jas uphol	R. L. Polk Co.
	Shaw Cath usherette r	R. L. Polk Co.
	Shaw Bridget E wid Henry J r	R. L. Polk Co.

Year	Uses	Source
1934	Schmeider Arch Helen mach h	R. L. Polk Co.

286 VAN DUZER ST

Year	Uses	Source
2005	No Current Listing	Hill-Donnelly Information Services
2000	WILLAM ST INTS	Cole Information Services
	BALTIC ST INTS	Cole Information Services
1934	Schultz Fredk W pntr and decorator	R. L. Polk Co.
	Schultz Bessie r	R. L. Polk Co.

292 VAN DUZER ST

Year	Uses	Source
2005	Lopez Samuel	Hill-Donnelly Information Services
	h Kowalchyk Diane A	Hill-Donnelly Information Services
	h Csse Boubacar v oi	Hill-Donnelly Information Services
	Ayudtud Venus	Hill-Donnelly Information Services
	h Almede Florida AV	Hill-Donnelly Information Services
2000	Grace Mores	Cole Information Services
	K P Martinez	Cole Information Services
	Maria E Huatte	Cole Information Services
	Noel Gartia	Cole Information Services
	Jose H Cuadros	Cole Information Services
	Rev Lemued Ayutud	Cole Information Services
	John Ayudud	Cole Information Services
	J Ayudud	Cole Information Services
1995	LIN Shu Hui	NYNEX
	KELLY Daniel	NYNEX
	HATTORI Kasumi	NYNEX
	NIKOVIC Hava	NYNEX
1934	Democratic Grill restr	R. L. Polk Co.
	De Nyse Arth R Lucy A steward Democratic Grill h	R. L. Polk Co.

293 VAN DUZER ST

Year	Uses	Source
2007	BEER GOGLE	Cole Information Services
2005	Ianno Matthew v	Hill-Donnelly Information Services
	Beer Goggles Bar & Grill	Hill-Donnelly Information Services
	HDepaolis L J 0 s	Hill-Donnelly Information Services
	Smith Donnie	Hill-Donnelly Information Services

FINDINGS

Year	Uses	Source
2000	T M Allen	Cole Information Services
	19th Hole Tavern	Cole Information Services
	Melvina Yamgo	Cole Information Services
1995	TALTOAN C	NYNEX
	ALLEN T M	NYNEX
	Giggles	NYNEX
1934	Schuknecht Frances Mrs sec treas Ye College Inn Inc h	R. L. Polk Co.
	Olynick Raymond hlpr r	R. L. Polk Co.
	Lucht Walter E H drftsmn Dept Educ h	R. L. Polk Co.
	Lucht Walter E H drftsmn Dept Educ h	R. L. Polk Co.
	Finlay Jos checker r	R. L. Polk Co.
	COTTAGE INN RESTAURANT See Ye Cottage Inn Restaurant Inc	R. L. Polk Co.
	YE COTTAGE INN RESTAURANT INC Frank Schuknecht Pres	R. L. Polk Co.
	Strohmater Marie waitress Ye College Inn Inc r	R. L. Polk Co.
	SCHUKNECHT FRANK Frances Pres Ye Cottage inn Restaurant Ine	R. L. Polk Co.

297 VAN DUZER ST

Year	Uses	Source
2005	h Haussler B Av	Hill-Donnelly Information Services
2000	B Haussler	Cole Information Services
1995	HAUSSLER B	NYNEX

300 VAN DUZER ST

Year	Uses	Source
2005	No Current Listing	Hill-Donnelly Information Services
2000	Sally S Blinder	Cole Information Services
1995	SMITH S	NYNEX
	HALPERN Raintree	NYNEX
	JACKSON C R	NYNEX
	ATKINSON C	NYNEX

304 VAN DUZER ST

Year	Uses	Source
2005	n Canu A A	Hill-Donnelly Information Services
2000	A Casnu	Cole Information Services

FINDINGS

305 VAN DUZER ST

Year	Uses	Source
2005	H Marius Philippe VA	Hill-Donnelly Information Services
1934	Israel Meyer Sadie ladies tailor	R. L. Polk Co.

310 VAN DUZER ST

Year	Uses	Source
2005	HTrotsky J 0 A	Hill-Donnelly Information Services
2000	J Trotsky	Cole Information Services
1995	TROTSKY J	NYNEX
1934	Koenig Walter D Maud groundmn Staten Island Edison Corp r	R. L. Polk Co.
	Koenig Anna slswn h	R. L. Polk Co.

311 VAN DUZER ST

Year	Uses	Source
2005	H Williams L AO	Hill-Donnelly Information Services
2000	L Williams	Cole Information Services
1995	WILLIAMS L	NYNEX
1934	Lamont Vera r	R. L. Polk Co.
	Nolan Adelaide h	R. L. Polk Co.

314 VAN DUZER ST

Year	Uses	Source
2005	No Current Listing	Hill-Donnelly Information Services

315 VAN DUZER ST

Year	Uses	Source
2005	Metz R V	Hill-Donnelly Information Services
	Lopez Francisco	Hill-Donnelly Information Services
1934	Bourno Wm F Emma phys	R. L. Polk Co.
	Bourno Harry D Journalist r	R. L. Polk Co.

316 VAN DUZER ST

Year	Uses	Source
2005	No Current Listing	Hill-Donnelly Information Services

318 VAN DUZER ST

Year	Uses	Source
2005	H Alagiyadura Nilukshi VO	Hill-Donnelly Information Services
	Mudiyanselage Upul v	Hill-Donnelly Information Services

FINDINGS

319 VAN DUZER ST

Year	Uses	Source
2012	CAREFREE FAMILY DAYCARE	Cole Information Services
2005	No Current Listing	Hill-Donnelly Information Services
2000	Don Cook	Cole Information Services
	Lee Walden Jr	Cole Information Services
1995	WALDEN Lee D Jr	NYNEX
	RIEH L M	NYNEX

320 VAN DUZER ST

Year	Uses	Source
2005	Padukkage R S O	Hill-Donnelly Information Services

322 VAN DUZER ST

Year	Uses	Source
2005	Lugo Patrida	Hill-Donnelly Information Services
	Lugo Patricia	Hill-Donnelly Information Services

324 VAN DUZER ST

Year	Uses	Source
2005	H Burow Anna A	Hill-Donnelly Information Services
2000	Anna Burow	Cole Information Services
1995	BUROW John	NYNEX
1934	Shudtz Chas N Theresa h	R. L. Polk Co.
	Shudtz Fredk C acct r	R. L. Polk Co.

327 VAN DUZER ST

Year	Uses	Source
2005	No Current Listing	Hill-Donnelly Information Services

328 VAN DUZER ST

Year	Uses	Source
2005	Carly Gail AV	Hill-Donnelly Information Services
2000	Daniel Rebecca	Cole Information Services
	Eric Lipps	Cole Information Services
	Gail Carty	Cole Information Services
1995	CARLY Gail	NYNEX
1934	Schick Henry Mathilda drs designer h	R. L. Polk Co.
	Rost Helen sten r	R. L. Polk Co.

FINDINGS

329 VAN DUZER ST

Year	Uses	Source
2005	h Karpowicz M A	Hill-Donnelly Information Services
	Baranski Zbigniew v	Hill-Donnelly Information Services
2000	M Karpowicz	Cole Information Services
1995	KRUPA Andzej	NYNEX

330 VAN DUZER ST

Year	Uses	Source
2005	Stavola M AV	Hill-Donnelly Information Services
2000	Michael Stavola	Cole Information Services
1995	STAVOLA Michael	NYNEX
1934	Mc Gee Fanny wid John r	R. L. Polk Co.
	Plumb Martin P Madeline ship clk h	R. L. Polk Co.
	Birkle Grace h	R. L. Polk Co.
	Bertine Isaac Gertrude r	R. L. Polk Co.

331 VAN DUZER ST

Year	Uses	Source
1934	Reichman Max Sarab shoe repr	R. L. Polk Co.

333 VAN DUZER ST

Year	Uses	Source
2005	Dzlmal Pelinkovic v	Hill-Donnelly Information Services
2000	Gazimend Shala	Cole Information Services
1995	ANJUM Mohammad	NYNEX
1934	Benfield Edw Mary A h	R. L. Polk Co.
	Cons Margt J h	R. L. Polk Co.
	Worrell Louise wid Judson r	R. L. Polk Co.

334 VAN DUZER ST

Year	Uses	Source
1934	Biel Henry F r	R. L. Polk Co.
	Biel Anna C h	R. L. Polk Co.

335 VAN DUZER ST

Year	Uses	Source
2005	H Sinnadurai Selvarajah AO	Hill-Donnelly Information Services
	HSelvarajah SR RO	Hill-Donnelly Information Services
	HCoomaraslngham S K	Hill-Donnelly Information Services
2000	S Sinnadurai	Cole Information Services

Year	Uses	Source
1995	SINNADURAI Selvarajah	NYNEX
1934	Gerlip Fredk C Agnes pastry cook h	R. L. Polk Co.

336 VAN DUZER ST

Year	Uses	Source
2005	Rosendo Raul v	Hill-Donnelly Information Services
2000	PROSPECT ST INTS	Cole Information Services
	Robert Flemming	Cole Information Services
1934	Reichman Albert r	R. L. Polk Co.
	Nicholls Albert Eliz collr NY & Rich Gas Co h	R. L. Polk Co.

337 VAN DUZER ST

Year	Uses	Source
2012	DEJOYS GARAGE	Cole Information Services
	HITECH DIAGNOSTIC CNTR	Cole Information Services
2005	Ibrocevic Samir y	Hill-Donnelly Information Services
2000	Ibrocevic Samir	Cole Information Services
1995	Hi Tech Diagnostic Cntr	NYNEX

WAVE

22 WAVE

Year	Uses	Source
1995	Forum The	NYNEX
	Wave Stret Club	NYNEX
	Wave The	NYNEX
1990	WAVE STREET CORP	NYNEX Information Resource Company
1979	WATERFRONT COMM OF NY HARBOR	New York Telephone

25 WAVE

Year	Uses	Source
1934	Parish Produce Inc NY Louis & Parish pres treas Sol Kolman v pres Mathilda Wellington sec	R. L. Polk Co.

26 WAVE

Year	Uses	Source
1990	REPAIR WELDING SVCE	NYNEX Information Resource Company
1984	OLIVER PETER	New York Telephone
	REPAIR WELDING SVCE	New York Telephone

FINDINGS

Year	Uses	Source
1934	Carpenter Homa J Marcine L coast guard r	R. L. Polk Co.
	Cosmen Cornela clk r	R. L. Polk Co.
	Coberth Morris D Mary A coast guard h	R. L. Polk Co.
	Cosmen Gustav Anna: Stapleton Woodworking Co h	R. L. Polk Co.
	Lovetti Maria wid Danie r	R. L. Polk Co.
	r	R. L. Polk Co.
	NICHOLS Danl H Duco Auto Refinishing Co r	R. L. Polk Co.
	Ogilvie Eloise dom r	R. L. Polk Co.
	Stevenson Andrew Anna gro clk h	R. L. Polk Co.
	Thorne John J Jr eng r	R. L. Polk Co.

27 WAVE

Year	Uses	Source
1934	Cardiff Richd J Eliz A porter h	R. L. Polk Co.

28 WAVE

Year	Uses	Source
1934	Thorne John J Eliz h	R. L. Polk Co.
	Rivera Emillo Providence coast guard h	R. L. Polk Co.
	Immeke Chas A hlpr r	R. L. Polk Co.
	Immeke Fredk C Cecella A h	R. L. Polk Co.

29 WAVE

Year	Uses	Source
1934	Stark Wm h	R. L. Polk Co.
	Britton Wm clk r	R. L. Polk Co.

31 WAVE

Year	Uses	Source
1990	RINASCENTE IRON WORKS INC	NYNEX Information Resource Company
	WAVE STREET ART GALLERY	NYNEX Information Resource Company
	ISLAND AUTO SUNROOFS & TOPS	NYNEX Information Resource Company
	AAA ISLAND AUTO SUNROOFS & TOPS	NYNEX Information Resource Company
1984	RINASCENTE IRON WORKS INC	New York Telephone
1979	BAY ST COLLISION WORKS INC	New York Telephone
1934	Maki Chas metal wks Duco Auto Refinishing Co	R. L. Polk Co.
	Bricard Ernest uphol Duco Auto Refinishing Co	R. L. Polk Co.

FINDINGS

71 WAVE

Year	Uses	Source
1934	Maurer John hlpr Jos Zammerman r	R. L. Polk Co.

73 WAVE

Year	Uses	Source
1990	COLON RIKI	NYNEX Information Resource Company
	O DEA KEVIN	NYNEX Information Resource Company
1984	HAZEL GERARD B	New York Telephone
	SACKETT GLENN	New York Telephone
1934	Bayle Angel Anna coast guard h	R. L. Polk Co.

79 WAVE

Year	Uses	Source
1995	CAMPBELL Robert L	NYNEX
1990	CAMPBELL ROBERT L	NYNEX Information Resource Company
1984	CAMPBELL ROBERT L PE	New York Telephone
1979	JENKINS CAROLINE V	New York Telephone
1934	Jenkins Harry L r	R. L. Polk Co.
	Hamliton Chas v pres Montana Social Club Inc r	R. L. Polk Co.
	Jenkins Geo B Caroline V h	R. L. Polk Co.

83 WAVE

Year	Uses	Source
1995	AFONJA Francisca	NYNEX
1990	CAINES EDW	NYNEX Information Resource Company
1984	CAINES EDW	New York Telephone
	PEREZ R	New York Telephone
1979	CAINES EDW	New York Telephone
1934	Block Franz Louise compositor h	R. L. Polk Co.
	Goelze Geo May blrmkr h	R. L. Polk Co.

87 WAVE

Year	Uses	Source
1990	PICKERING C	NYNEX Information Resource Company
1984	PICKERING C	New York Telephone
1979	PICKERING C	New York Telephone

88 WAVE

Year	Uses	Source
1934	Block Wm r slamn h	R. L. Polk Co.

95 WAVE

Year	Uses	Source
1995	SHINDEL R C	NYNEX
1990	SHINDEL R C	NYNEX Information Resource Company
1984	JACOBSEN HERBERT	New York Telephone
1979	JACOBSEN HERBERT	New York Telephone
1934	h	R. L. Polk Co.
	Winter Geo Emma hay grain and feed	R. L. Polk Co.

WAVE %

79 WAVE %

Year	Uses	Source
1960	JENKINS CAROLINE V WAVE	New York Telephone Company

WAVE ST

22 WAVE ST

Year	Uses	Source
2012	STYLE CONCRETE	Cole Information Services

26 WAVE ST

Year	Uses	Source
2012	A & R ELECTRICAL CONTRACTING INC	Cole Information Services

31 WAVE ST

Year	Uses	Source
2007	STYLE CONCRETE	Cole Information Services
2005	Style Concrete Is	Hill-Donnelly Information Services
2000	Grant Auto Body	Cole Information Services

33 WAVE ST

Year	Uses	Source
2012	WAVE STREET AUTO BODY	Cole Information Services
	S AUTO BODY AJOFIS	Cole Information Services
2007	A JOFIS AUTO BODY INC	Cole Information Services
2005	A Jofis Auto Body Inc 1 oo	Hill-Donnelly Information Services

FINDINGS

Year	Uses	Source
2005	Tract 36085:21 odd s	Hill-Donnelly Information Services
2000	A Jfs At Bdy Inc	Cole Information Services

71 WAVE ST

Year	Uses	Source
2000	Four Star Vending	Cole Information Services
	Four Star Vending	Cole Information Services

73 WAVE ST

Year	Uses	Source
2005	Mercorius Susan Vasquez Manuel V	Hill-Donnelly Information Services
	h Lee&Y vt oo	Hill-Donnelly Information Services
	Brocha Alturo v 7	Hill-Donnelly Information Services
2000	Dwight Knox	Cole Information Services
	Edward Steinhilber	Cole Information Services

79 WAVE ST

Year	Uses	Source
2005	H Campbell Alice At	Hill-Donnelly Information Services
2000	Robert L Campbell	Cole Information Services

83 WAVE ST

Year	Uses	Source
2005	H Afonja Francidsca c	Hill-Donnelly Information Services
	Nwegbo E	Hill-Donnelly Information Services
2000	Yvtte Trevino	Cole Information Services
	David Negron	Cole Information Services
	Apartments Francisca Afonja	Cole Information Services

87 WAVE ST

Year	Uses	Source
2005	H Ransom R	Hill-Donnelly Information Services
2000	95 NP	Cole Information Services

95 WAVE ST

Year	Uses	Source
2005	h Lundquist James & Marissa	Hill-Donnelly Information Services

FINDINGS

WILLIAM ST

10 WILLIAM ST

Year	Uses	Source
1934	Cordes Henry Clara carp h	R. L. Polk Co.
	Paone Jos Leora lab h	R. L. Polk Co.
	Palmer Jos Bertha h	R. L. Polk Co.
	Garner Elwood Margt h	R. L. Polk Co.

13 WILLIAM ST

Year	Uses	Source
1934	Fitzpatrick Noah J Anna M lab h	R. L. Polk Co.
	Murphy Lawrence hlpr r	R. L. Polk Co.
	Fitzpatrick Anna M clnr Pres Boro Rich r	R. L. Polk Co.

15 WILLIAM ST

Year	Uses	Source
2012	JERRY DELUCA COMPLETE AUTO REPAIR	Cole Information Services
2007	DELUCA AUTO REPAIR	Cole Information Services
2005	Jerry De Luca Complete Auto	Hill-Donnelly Information Services
1995	WADSWORTH AUTOMATIC TRANSMISSIONS	NYNEX

18 WILLIAM ST

Year	Uses	Source
1934	Schopp Flora mach opr r	R. L. Polk Co.

19 WILLIAM ST

Year	Uses	Source
1934	Plocich Michl Anna h	R. L. Polk Co.
	Mc Gargle Hugh PO clk r	R. L. Polk Co.

20 WILLIAM ST

Year	Uses	Source
1934	Cohen Rose bkpr Liberty Plumbers Supply Co Inc	R. L. Polk Co.
	Levine Hyman Gussie v pres Liberty Plumbers Supply Co Inc	R. L. Polk Co.

24 WILLIAM ST

Year	Uses	Source
2007	TAUBS FLOOR COVERING	Cole Information Services

FINDINGS

Year	Uses	Source
2005	Taubs Floor Covering 2 R	Hill-Donnelly Information Services
1995	Taubs Floor Covering	NYNEX

25 WILLIAM ST

Year	Uses	Source
1934	Blackham Anthony r	R. L. Polk Co.
	Blackham Anna clk r	R. L. Polk Co.
	Kinelski Mary r	R. L. Polk Co.

60 WILLIAM ST

Year	Uses	Source
1934	Hamliton Evelyn J r	R. L. Polk Co.

61 WILLIAM ST

Year	Uses	Source
2005	Chanod Patrick	Hill-Donnelly Information Services

63 WILLIAM ST

Year	Uses	Source
2005	Mc Cormick Rosemary a	Hill-Donnelly Information Services
1934	Fitzpatrick Frank J acct r	R. L. Polk Co.
	Fitzpatrick Ida wid Wm h	R. L. Polk Co.

68 WILLIAM ST

Year	Uses	Source
2005	HUyo KE AO	Hill-Donnelly Information Services

70 WILLIAM ST

Year	Uses	Source
2005	Bellamy Bettie	Hill-Donnelly Information Services
	H Bellamy W W v	Hill-Donnelly Information Services
1995	BELLAMY W W	NYNEX
	CASAZZA Joseph C	NYNEX

75 WILLIAM ST

Year	Uses	Source
1934	Collins Bros Garage John l & Gerald C Collin	R. L. Polk Co.

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WILLIAM STREET

1 WILLIAM STREET

Year	*Uses*	*Source*
1970	LEHMAN BROS INVSTMT BNKRS	New York Telephone
1965	LEHMAN BROS INVSTMT BNKRS	New York Telephone Company

27 WILLIAM STREET

Year	*Uses*	*Source*
1970	CONNORS JOHN P ATTY	New York Telephone
1965	DE CICCO ANTHONY J ATTY	New York Telephone Company
	GARBARINI CHAS J ATTY	New York Telephone Company
	WYNNE JOHN HENRY LWYR	New York Telephone Company
1960	CONNORS JOHN P	New York Telephone Company

76 WILLIAM STREET

Year	*Uses*	*Source*
1965	CONTINENTAL-NATIONAL INSURANCE GROUP	New York Telephone Company
	CONTINENTL CASUALTY CO	New York Telephone Company
1960	CONTINENTL CASUALTY CO	New York Telephone Company

84 WILLIAM STREET

Year	*Uses*	*Source*
1960	WEST FAIR INVESTGATNS	New York Telephone Company

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
475 Bay Street	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928

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
1 CLINTON ST	2012, 2007, 2005, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
1 WILLIAM STREET	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1960, 1934, 1928
10 WILLIAM ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
12 CLINTON ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
12 CONGRESS	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1975, 1970, 1965, 1960, 1934, 1928
12 SANDS ST	2012, 2007, 2005, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
13 CLINTON ST	2012, 2007, 2005, 2000, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
13 WILLIAM ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
14 CLINTON ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
14 CONGRESS	2012, 2007, 2005, 2000, 1995, 1979, 1970, 1934
14 CONGRESS ST	2012, 2007, 2000, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
14 CONGRESS STREET	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1965, 1960, 1934, 1928
15 WILLIAM ST	2012, 2007, 2000, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
15 WILLIAM ST	2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
16 CLINTON ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
16 CONGRESS	2012, 2007, 2005, 2000, 1995, 1984, 1979, 1970, 1934, 1928
16 CONGRESS ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
16 CONGRESS STREET	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1965, 1934, 1928
17 S WILLIAM STREET	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1934, 1928
18 CLINTON ST	2012, 2007, 2000, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
18 CONGRESS STREET	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1934, 1928
18 SANDS ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928

FINDINGS

Address Researched	Address Not Identified in Research Source
18 WILLIAM ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
19 WILLIAM ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
20 CLINTON ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
20 CONGRESS	2012, 2007, 2005, 2000, 1995, 1984, 1979, 1975, 1970, 1934
20 CONGRESS ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
20 WILLIAM ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
22 CONGRESS STREET	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1965, 1934, 1928
22 WAVE	2012, 2007, 2005, 2000, 1984, 1975, 1970, 1965, 1960, 1934, 1928
22 WAVE ST	2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
23 CLINTON ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
23 SANDS ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
23 SANDS ST	2012, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
24 WILLIAM ST	2012, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
24 WILLIAM ST	2012, 2007, 2000, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
244 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1970, 1965, 1960, 1934, 1928
244 VAN DUZER ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
245 VAN DUZER ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
246 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1990, 1965, 1960, 1934, 1928
246 VAN DUZER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
247 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
247 VAN DUZER ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
25 WAVE	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
25 WILLIAM ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
253 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1965, 1960, 1934, 1928
253 VAN DUZER ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
254 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1970, 1965, 1960, 1934, 1928
254 VAN DUZER ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
255 VAN DUZER ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
257 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1979, 1970, 1965, 1960, 1934
257 VAN DUZER ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
258 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934
258 VAN DUZER ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928

FINDINGS

Address Researched	Address Not Identified in Research Source
26 CLINTON ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
26 WAVE	2012, 2007, 2005, 2000, 1995, 1979, 1975, 1970, 1965, 1960, 1928
26 WAVE ST	2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
263 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1970, 1965, 1960, 1934, 1928
263 VAN DUZER ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
263 VAN DUZER ST	2012, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
264 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1990, 1965, 1960, 1934
264 VAN DUZER ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
264 VAN DUZER ST	2012, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
268 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934
268 VAN DUZER ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
269 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934
269 VAN DUZER ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
27 SANDS	2012, 2007, 2005, 2000, 1995, 1975, 1970, 1934, 1928
27 SANDS ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
27 SANDS ST	2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
27 WAVE	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
27 WILLIAM STREET	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1934, 1928
270 VAN DUZER ST	2012, 2007, 2005, 2000, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
271 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1970, 1965, 1960, 1934, 1928
271 VAN DUZER ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
273 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1965, 1960, 1934, 1928
273 VAN DUZER ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
274 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1965, 1960, 1934, 1928
274 VAN DUZER ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
277 FRONT ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
277 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1965, 1960, 1934, 1928
277 VAN DUZER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
277 VAN DUZER ST	2012, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
278 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1965, 1960, 1934
278 VAN DUZER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
279 VAN DUZER ST	2012, 2007, 2000, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928

FINDINGS

Address Researched	Address Not Identified in Research Source
28 CONGRESS STREET	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1960, 1934, 1928
28 WAVE	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
281 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1979, 1965, 1960, 1934
281 VAN DUZER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
281 VAN DUZER ST	2012, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
282 VAN DUZER ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
283 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1970, 1965, 1960, 1934
283 VAN DUZER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
286 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1979, 1965, 1960, 1934, 1928
286 VAN DUZER ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
29 WAVE	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
292 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1984, 1979, 1975, 1970, 1965, 1960, 1934
292 VAN DUZER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
293 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1975, 1970, 1965, 1960, 1934
293 VAN DUZER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
293 VAN DUZER ST	2012, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
294 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
297 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1979, 1970, 1965, 1960, 1934, 1928
297 VAN DUZER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
30 CONGRESS	2012, 2007, 2005, 2000, 1995, 1984, 1979, 1975, 1970, 1934, 1928
30 CONGRESS ST	2012, 2007, 2000, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
30 SANDS ST	2012, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
300 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1970, 1965, 1960, 1934
300 VAN DUZER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
303 FRONT ST	2012, 2007, 2005, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
304 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934
304 VAN DUZER ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
305 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1970, 1965, 1960, 1934
305 VAN DUZER ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
307 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934
308 FRONT ST	2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
31 WAVE	2012, 2007, 2005, 2000, 1995, 1975, 1970, 1965, 1960, 1928

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Address Researched	Address Not Identified in Research Source
31 WAVE ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
31 WAVE ST	2012, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
310 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1979, 1970, 1965, 1960, 1934, 1928
310 VAN DUZER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
311 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1979, 1970, 1965, 1934, 1928
311 VAN DUZER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
314 VAN DUZER ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
315 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1965, 1960, 1934, 1928
315 VAN DUZER ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
316 VAN DUZER ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
318 VAN DUZER ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
319 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1990, 1979, 1970, 1965, 1960, 1934
319 VAN DUZER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
319 VAN DUZER ST	2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
32 SANDS ST	2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
320 VAN DUZER ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
322 VAN DUZER ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
324 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1984, 1979, 1970, 1965, 1960, 1934
324 VAN DUZER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
327 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1979, 1975, 1965, 1960, 1934, 1928
327 VAN DUZER ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
328 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1979, 1975, 1970, 1965, 1960, 1934
328 VAN DUZER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
329 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1990, 1970, 1965, 1960, 1934, 1928
329 VAN DUZER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
33 WAVE ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
33 WAVE ST	2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
330 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1965, 1960, 1934
330 VAN DUZER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
331 VAN DUZER ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
333 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1965, 1960, 1934, 1928
333 VAN DUZER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928

FINDINGS

Address Researched	Address Not Identified in Research Source
334 VAN DUZER ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
335 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1984, 1979, 1970, 1965, 1960, 1934
335 VAN DUZER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
336 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1990, 1965, 1960, 1934, 1928
336 VAN DUZER ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
337 VAN DUZER	2012, 2007, 2005, 2000, 1995, 1965, 1960, 1934, 1928
337 VAN DUZER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
337 VAN DUZER ST	2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
34 CONGRESS	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1970, 1965, 1960, 1934, 1928
34 CONGRESS STREET	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1934, 1928
34 SANDS ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
355 FRONT	2012, 2007, 2005, 2000, 1995, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
355 FRONT ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
355 FRONT ST	2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
40 SANDS	2012, 2007, 2005, 2000, 1995, 1990, 1970, 1965, 1960, 1934, 1928
40 SANDS ST	2012, 2007, 2005, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
41 SANDS ST	2012, 2007, 2005, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
420 BAY	2012, 2007, 2005, 2000, 1965, 1960, 1934, 1928
420 BAY ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
420 BAY ST	2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
422 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
425 BAY	2012, 2007, 2005, 2000, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
425 BAY ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
425 BAY ST	2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
426 BAY	2012, 2007, 2005, 2000, 1928
426 BAY ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
426 BAY ST	2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
430 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975
432 BAY	2012, 2007, 2005, 2000, 1995, 1960, 1928
436 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1928
440 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975
440 BAY ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928

FINDINGS

Address Researched	Address Not Identified in Research Source
442 BAY	2012, 2007, 2005, 2000
442 BAY ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
442 BAY ST	2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
446 BAY	2012, 2007, 2005, 2000, 1990, 1984, 1979, 1975, 1970, 1965, 1960
450 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
451 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934
453 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
455 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1928
457 BAY	2012, 2007, 2005, 2000, 1979, 1975, 1970, 1928
457 BAY ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
457 BAY ST	2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
459 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970
460 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
465 BAY	2012, 2007, 2005, 2000, 1934, 1928
465 BAY ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
465 BAY ST	2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
466 BAY	2012, 2007, 2005, 2000, 1995, 1984, 1979, 1928
466 BAY ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
466 BAY ST	2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
467 PROSPECT AVE	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1960, 1934, 1928
471 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934
474 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
478 BAY	2012, 2007, 2005, 2000, 1965, 1934
480 BAY	2012, 2007, 2005, 2000, 1990, 1984, 1979, 1975, 1970, 1965
480 BAY ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
480 BAY ST	2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
489 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960
490 BAY	2012, 2007, 2005, 2000, 1995, 1965
490 BAY ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
490 BAY ST	2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
491 BAY	2012, 2007, 2005, 2000, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
491 BAY ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928

FINDINGS

Address Researched	Address Not Identified in Research Source
491 BAY ST	2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
492 BAY	2012, 2007, 2005, 2000, 1995, 1984, 1928
492 BAY ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
494 BAY ST	2012, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
495 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965
498 BAY	2012, 2007, 2005, 2000, 1995, 1928
498 BAY ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
498 BAY ST	2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
500 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1928
500 BAY ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
501 BAY	2012, 2007, 2005, 2000, 1995, 1990
501 BAY ST	2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
502 BAY	2012, 2007, 2005, 2000, 1995, 1984, 1979, 1975, 1970, 1965, 1960
502 BAY ST	2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
503 BAY	2012, 2007, 2005, 2000, 1995, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
504 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
506 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934
506 BAY ST	2012, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
508 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934
510 BAY	2012, 2007, 2005, 2000, 1995
510 BAY ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
510 BAY ST	2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
511 BAY	2012, 2007, 2005, 2000, 1979, 1975, 1970, 1965, 1960, 1934, 1928
511 BAY ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
511 BAY ST	2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
511 PROSPECT ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
512 BAY ST	2012, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
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517 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1928
519 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1960, 1934, 1928

FINDINGS

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521 BAY	2012, 2007, 2005, 2000, 1995, 1979, 1975, 1965, 1960
521 BAY ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
523 BAY	2012, 2007, 2005, 2000
523 BAY ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
524 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
525 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
526 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1970, 1965
526 BAY ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
528 BAY	2012, 2007, 2005, 2000
528 BAY ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
530 BAY	2012, 2007, 2005, 2000, 1990
530 BAY ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
530 BAY ST	2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
532 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960
533 BAY	2012, 2007, 2005, 2000, 1984
533 BAY ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
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534 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960
535 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1975
535 BAY ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
537 1/2 BAY	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934
537 BAY	2012, 2007, 2005, 2000, 1995, 1984, 1970
537 BAY ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
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539 BAY ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
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555 PROSPECT PL	2012, 2007, 2005, 2000, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
56 SANDS	2012, 2007, 2005, 2000, 1995, 1990, 1975, 1970, 1965, 1960, 1934, 1928

FINDINGS

Address Researched	Address Not Identified in Research Source
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58 SANDS	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1970, 1965, 1960, 1934, 1928
60 WILLIAM ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
61 WILLIAM ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
62 SANDS	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1934, 1928
63 WILLIAM ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
64 SANDS	2012, 2007, 2005, 2000, 1995, 1934, 1928
64 SANDS ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
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68 SANDS	2012, 2007, 2005, 2000, 1995, 1984, 1979, 1975, 1970, 1934, 1928
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68 WILLIAM ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
69 SANDS	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1934, 1928
69 SANDS ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
70 BREWSTER	2012, 2007, 2005, 2000, 1995, 1934, 1928
70 BREWSTER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
70 SANDS	2012, 2007, 2005, 2000, 1995, 1934, 1928
70 SANDS ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
70 WILLIAM ST	2012, 2007, 2000, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
707 PROSPECT AVE	2012, 2007, 2005, 2000, 1979, 1975, 1970, 1965, 1960, 1934, 1928
71 SANDS	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1934, 1928
71 SANDS ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
71 WAVE	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
71 WAVE ST	2012, 2007, 2005, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
72 SANDS	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1934, 1928
72 SANDS ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
73 SANDS	2012, 2007, 2005, 2000, 1995, 1979, 1975, 1934, 1928
73 SANDS ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
73 WAVE	2012, 2007, 2005, 2000, 1995, 1979, 1975, 1970, 1965, 1960, 1928

FINDINGS

Address Researched	Address Not Identified in Research Source
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75 WILLIAM ST	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
76 BREWSTER	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1965, 1960, 1934, 1928
76 BREWSTER ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
76 SANDS	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1934, 1928
76 SANDS ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
76 SANDS ST	2012, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
76 WILLIAM STREET	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1934, 1928
79 WAVE	2012, 2007, 2005, 2000, 1975, 1970, 1965, 1960, 1928
79 WAVE %	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1934, 1928
79 WAVE ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
80 BREWSTER	2012, 2007, 2005, 2000, 1995, 1990, 1934, 1928
80 BREWSTER ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
80 SANDS	2012, 2007, 2005, 2000, 1995, 1990, 1970, 1960, 1934, 1928
80 SANDS ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
82 BREWSTER	2012, 2007, 2005, 2000, 1995, 1979, 1960, 1934, 1928
82 BREWSTER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
82 SANDS	2012, 2007, 2005, 2000, 1995, 1984, 1934, 1928
82 SANDS ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
83 WAVE	2012, 2007, 2005, 2000, 1975, 1970, 1965, 1960, 1928
83 WAVE ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
84 BREWSTER	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1934
84 BREWSTER ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
84 SANDS	2012, 2007, 2005, 2000, 1995, 1979, 1934, 1928
84 SANDS ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
84 WILLIAM STREET	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1934, 1928
87 WAVE	2012, 2007, 2005, 2000, 1995, 1975, 1970, 1965, 1960, 1934, 1928
87 WAVE ST	2012, 2007, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
88 BREWSTER	2012, 2007, 2005, 2000, 1995, 1984, 1934, 1928
88 BREWSTER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
88 BREWSTER ST	2012, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
88 WAVE	2012, 2007, 2005, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928

FINDINGS

Address Researched	Address Not Identified in Research Source
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90 BREWSTER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
91 SANDS	2012, 2007, 2005, 2000, 1995, 1979, 1934, 1928
91 SANDS ST	2012, 2007, 2000, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928
92 BREWSTER	2012, 2007, 2005, 2000, 1995, 1984, 1934
92 BREWSTER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
94 BREWSTER	2012, 2007, 2005, 2000, 1995, 1984, 1934, 1928
94 BREWSTER ST	2012, 2007, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1928
95 WAVE	2012, 2007, 2005, 2000, 1975, 1970, 1965, 1960, 1928
95 WAVE ST	2012, 2007, 2000, 1995, 1990, 1984, 1979, 1975, 1970, 1965, 1960, 1934, 1928

BFC Parking Lot
475 Bay Street
Staten Island, NY 10301

Inquiry Number: 3568702.4
April 05, 2013

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Milford, CT 06461
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Historical Topographic Map



N	TARGET QUAD NAME: STATEN ISLAND MAP YEAR: 1891 SERIES: 15 SCALE: 1:62500	SITE NAME: BFC Parking Lot ADDRESS: 475 Bay Street Staten Island, NY 10301 LAT/LONG: 40.6305 / -74.0766	CLIENT: URS Corporation CONTACT: Bob Wolff INQUIRY#: 3568702.4 RESEARCH DATE: 04/05/2013

Historical Topographic Map



N	TARGET QUAD NAME: STATEN ISLAND MAP YEAR: 1900 SERIES: 15 SCALE: 1:62500	SITE NAME: BFC Parking Lot ADDRESS: 475 Bay Street Staten Island, NY 10301 LAT/LONG: 40.6305 / -74.0766	CLIENT: URS Corporation CONTACT: Bob Wolff INQUIRY#: 3568702.4 RESEARCH DATE: 04/05/2013

Historical Topographic Map



N	TARGET QUAD NAME: PASSAIC MAP YEAR: 1900 SERIES: 30 SCALE: 1:125000	SITE NAME: BFC Parking Lot ADDRESS: 475 Bay Street Staten Island, NY 10301 LAT/LONG: 40.6305 / -74.0766	CLIENT: URS Corporation CONTACT: Bob Wolff INQUIRY#: 3568702.4 RESEARCH DATE: 04/05/2013

Historical Topographic Map



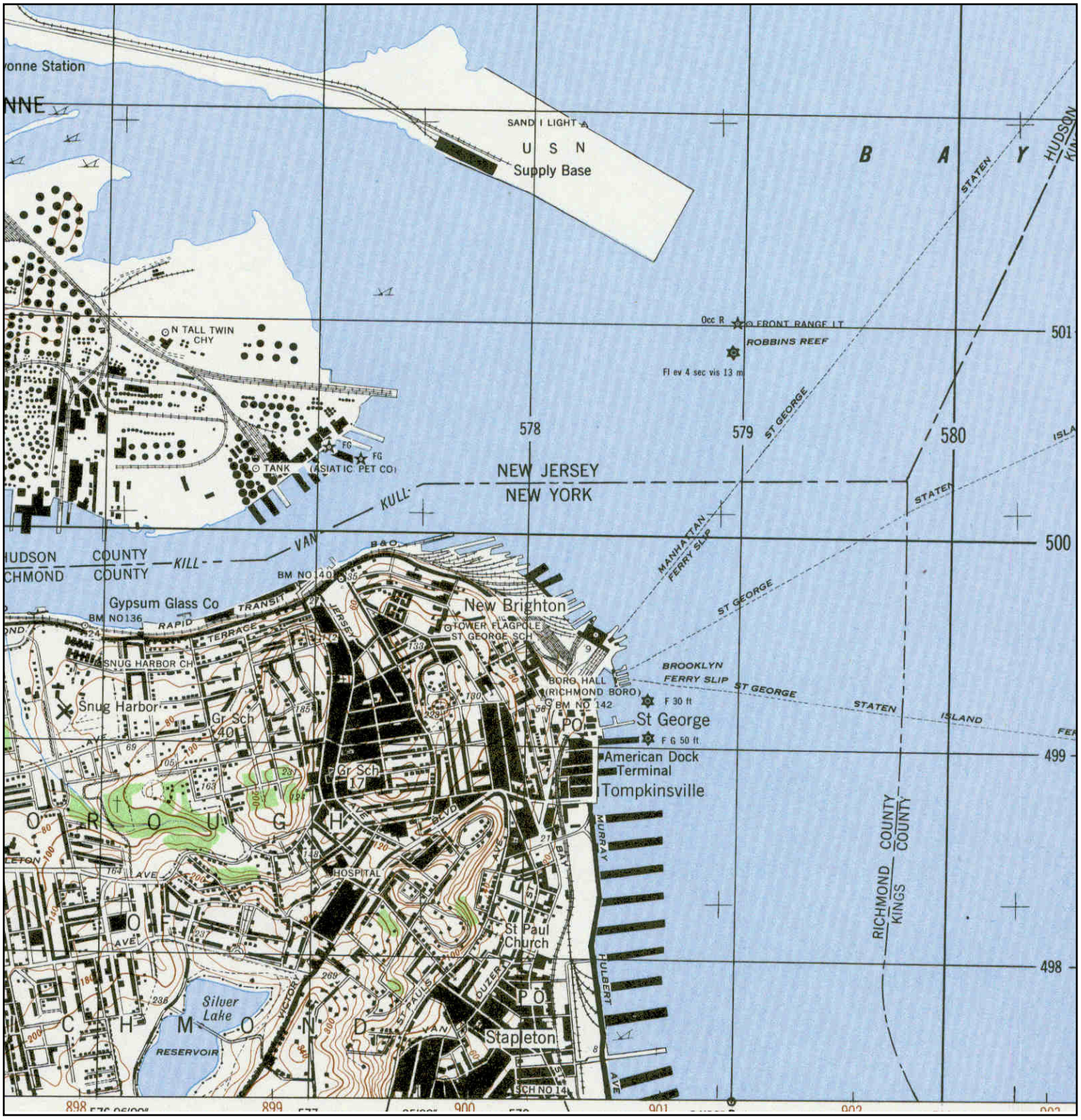
N	TARGET QUAD NAME: PASSAIC MAP YEAR: 1905 SERIES: 30 SCALE: 1:125000	SITE NAME: BFC Parking Lot ADDRESS: 475 Bay Street Staten Island, NY 10301 LAT/LONG: 40.6305 / -74.0766	CLIENT: URS Corporation CONTACT: Bob Wolff INQUIRY#: 3568702.4 RESEARCH DATE: 04/05/2013

Historical Topographic Map



N	TARGET QUAD NAME: STATEN ISLAND MAP YEAR: 1925 REVISED FROM :1900 SERIES: 15 SCALE: 1:62500	SITE NAME: BFC Parking Lot ADDRESS: 475 Bay Street Staten Island, NY 10301 LAT/LONG: 40.6305 / -74.0766	CLIENT: URS Corporation CONTACT: Bob Wolff INQUIRY#: 3568702.4 RESEARCH DATE: 04/05/2013

Historical Topographic Map



N	TARGET QUAD NAME: JERSEY CITY MAP YEAR: 1947 SERIES: 7.5 SCALE: 1:25000	SITE NAME: BFC Parking Lot ADDRESS: 475 Bay Street Staten Island, NY 10301 LAT/LONG: 40.6305 / -74.0766	CLIENT: URS Corporation CONTACT: Bob Wolff INQUIRY#: 3568702.4 RESEARCH DATE: 04/05/2013

Historical Topographic Map



N	TARGET QUAD NAME: JERSEY CITY MAP YEAR: 1955 SERIES: 7.5 SCALE: 1:24000	SITE NAME: BFC Parking Lot ADDRESS: 475 Bay Street Staten Island, NY 10301 LAT/LONG: 40.6305 / -74.0766	CLIENT: URS Corporation CONTACT: Bob Wolff INQUIRY#: 3568702.4 RESEARCH DATE: 04/05/2013

Historical Topographic Map



N	TARGET QUAD NAME: JERSEY CITY MAP YEAR: 1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: BFC Parking Lot ADDRESS: 475 Bay Street Staten Island, NY 10301 LAT/LONG: 40.6305 / -74.0766	CLIENT: URS Corporation CONTACT: Bob Wolff INQUIRY#: 3568702.4 RESEARCH DATE: 04/05/2013

Historical Topographic Map



N	TARGET QUAD NAME: JERSEY CITY MAP YEAR: 1981 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: BFC Parking Lot ADDRESS: 475 Bay Street Staten Island, NY 10301 LAT/LONG: 40.6305 / -74.0766	CLIENT: URS Corporation CONTACT: Bob Wolff INQUIRY#: 3568702.4 RESEARCH DATE: 04/05/2013

Historical Topographic Map



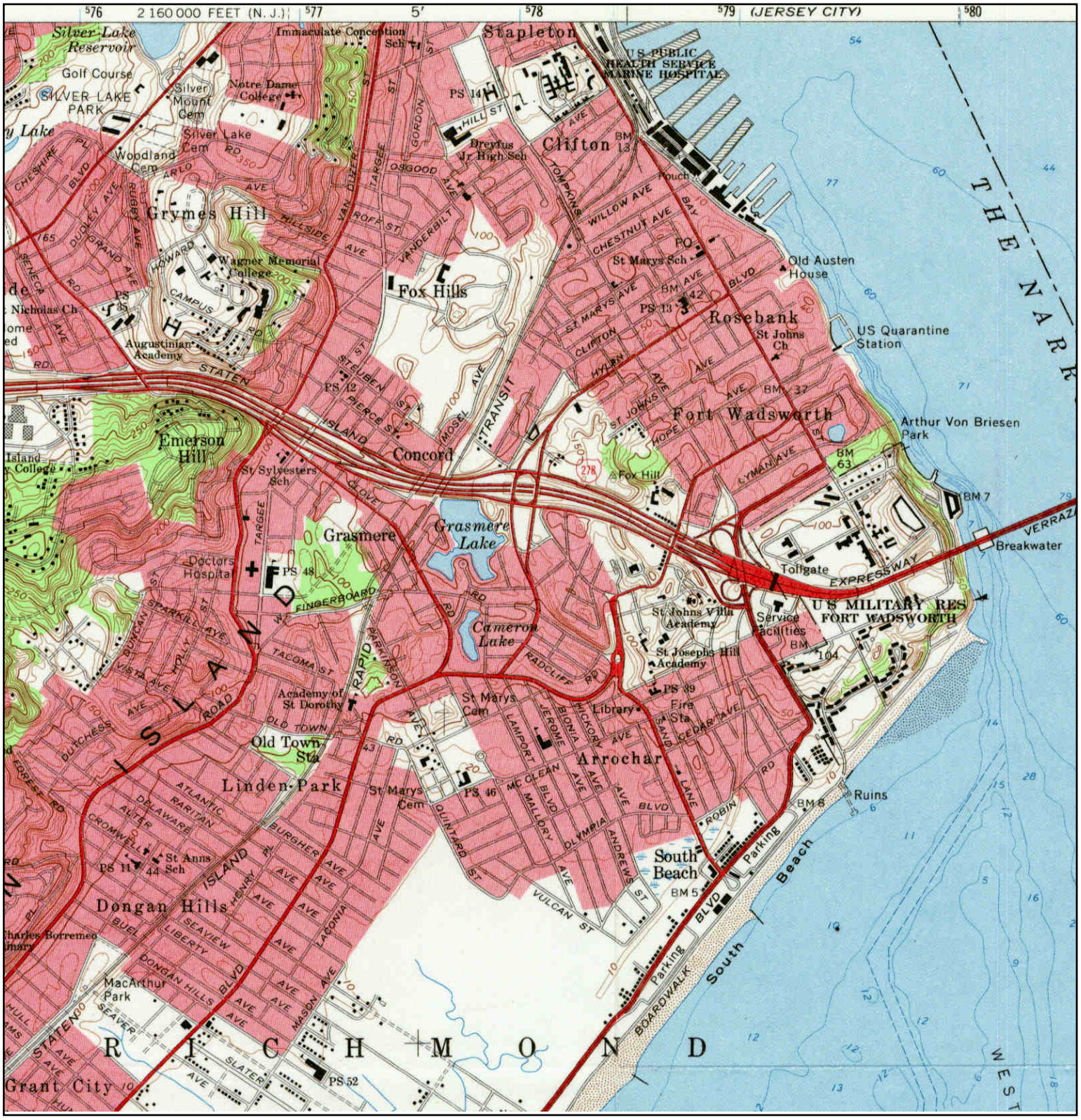
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Historical Topographic Map



N	ADJOINING QUAD		
	NAME: THE NARROWS	SITE NAME: BFC Parking Lot	CLIENT: URS Corporation
	MAP YEAR: 1955	ADDRESS: 475 Bay Street	CONTACT: Bob Wolff
		Staten Island, NY 10301	INQUIRY#: 3568702.4
	SERIES: 7.5	LAT/LONG: 40.6305 / -74.0766	RESEARCH DATE: 04/05/2013
	SCALE: 1:24000		

Historical Topographic Map



N	ADJOINING QUAD		
	NAME: THE NARROWS	SITE NAME: BFC Parking Lot	CLIENT: URS Corporation
	MAP YEAR: 1966	ADDRESS: 475 Bay Street	CONTACT: Bob Wolff
		Staten Island, NY 10301	INQUIRY#: 3568702.4
	SERIES: 7.5	LAT/LONG: 40.6305 / -74.0766	RESEARCH DATE: 04/05/2013
	SCALE: 1:24000		

Historical Topographic Map



N	ADJOINING QUAD		
	NAME: THE NARROWS	SITE NAME: BFC Parking Lot	CLIENT: URS Corporation
	MAP YEAR: 1981	ADDRESS: 475 Bay Street	CONTACT: Bob Wolff
	PHOTOREVISED FROM :1966	Staten Island, NY 10301	INQUIRY#: 3568702.4
	SERIES: 7.5	LAT/LONG: 40.6305 / -74.0766	RESEARCH DATE: 04/05/2013
	SCALE: 1:24000		

Historical Topographic Map



N	ADJOINING QUAD				
	NAME:	THE NARROWS	SITE NAME:	BFC Parking Lot	CLIENT: URS Corporation
	MAP YEAR:	1998	ADDRESS:	475 Bay Street	CONTACT: Bob Wolff
				Staten Island, NY 10301	INQUIRY#: 3568702.4
	SERIES:	7.5	LAT/LONG:	40.6305 / -74.0766	RESEARCH DATE: 04/05/2013
	SCALE:	1:24000			

1995 Certified Sanborn Map



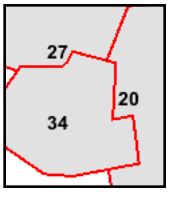
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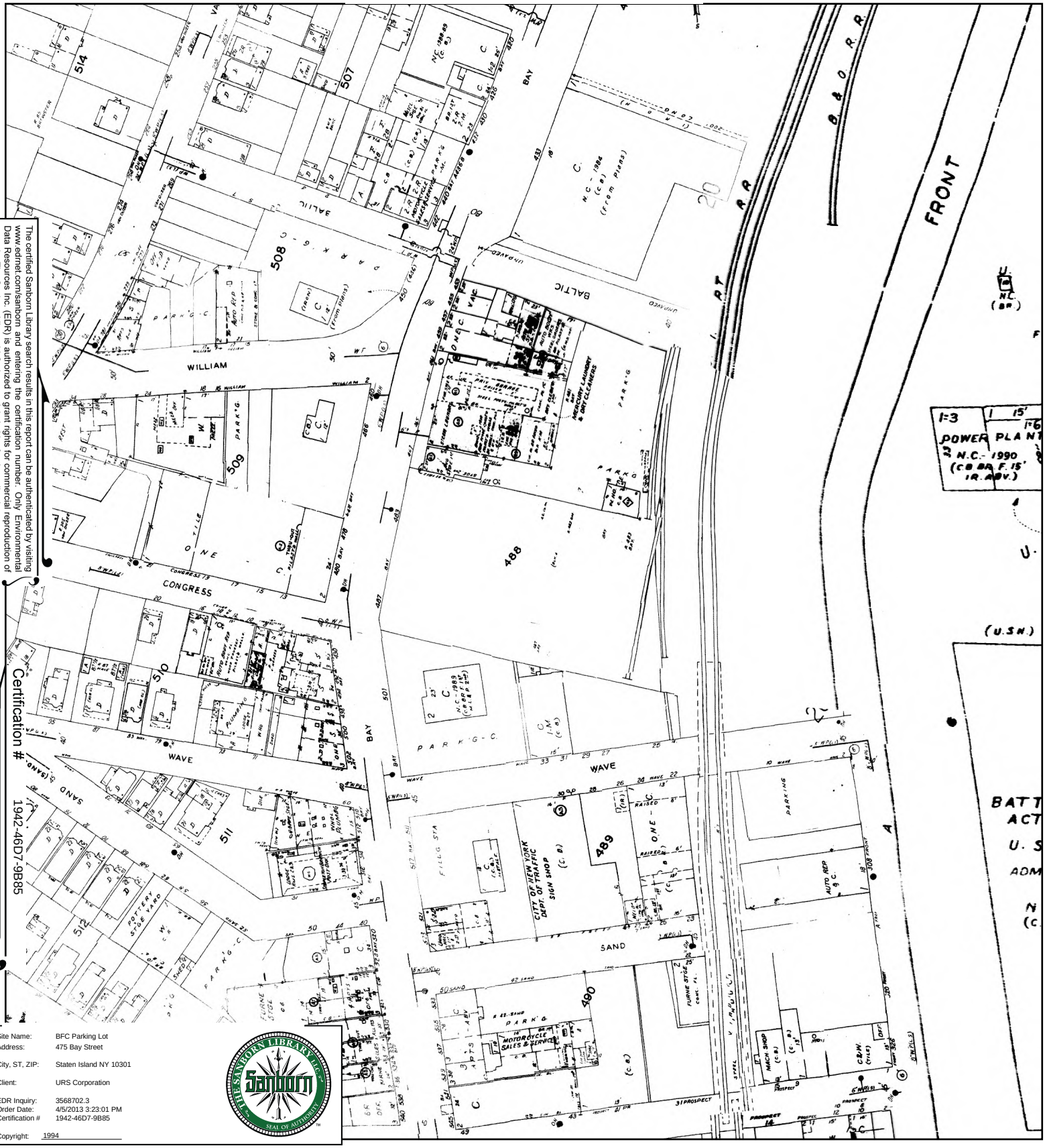


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Volume 1, Sheet 27
Volume 1, Sheet 34

0 Feet 150 300 600

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1994 Certified Sanborn Map



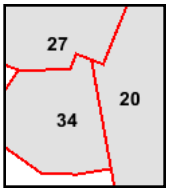
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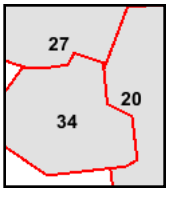
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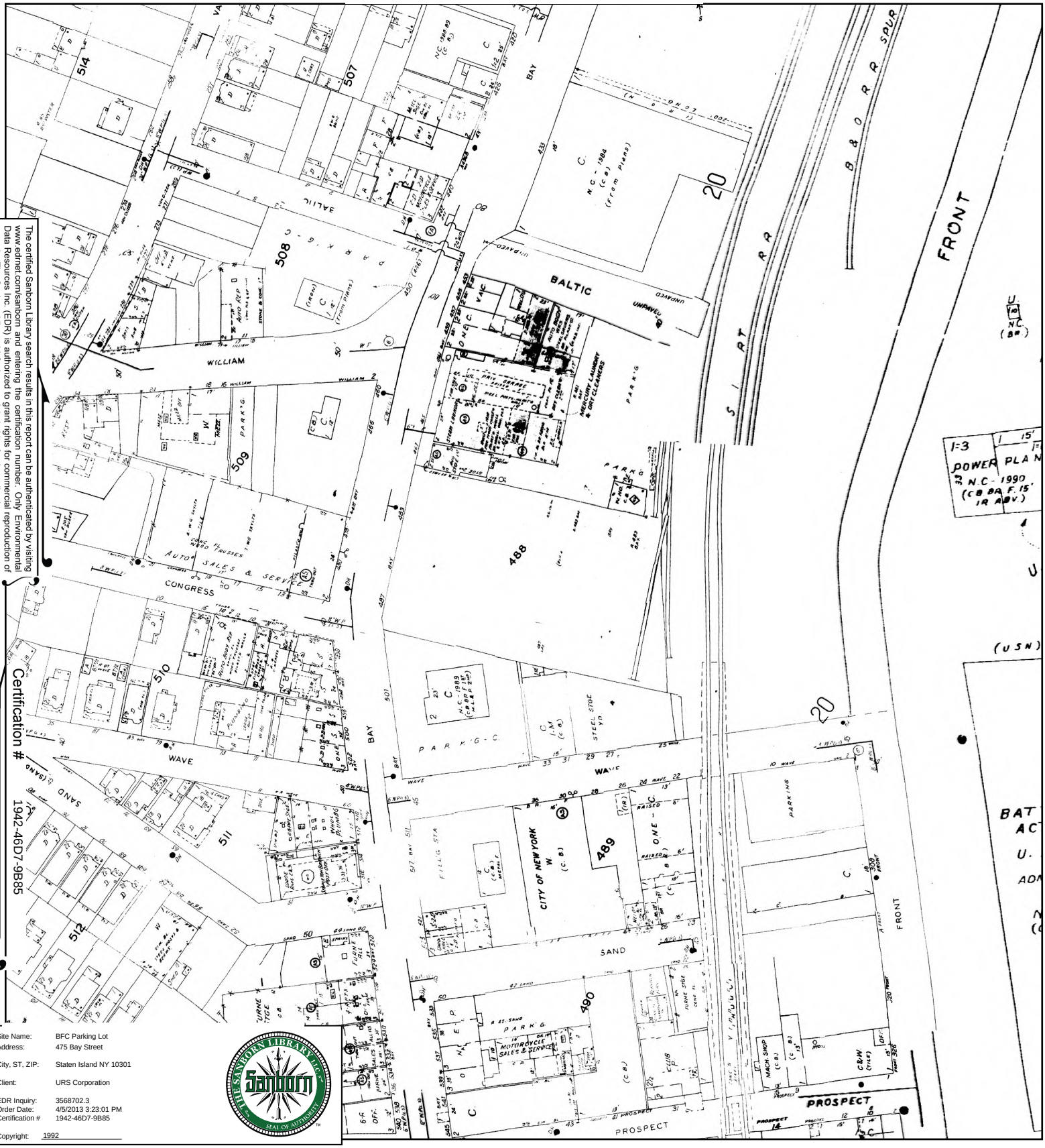


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Volume 1, Sheet 34

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1992 Certified Sanborn Map



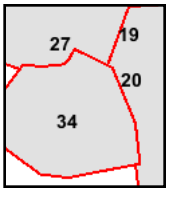
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Site Name:	BFC Parking Lot
Address:	475 Bay Street
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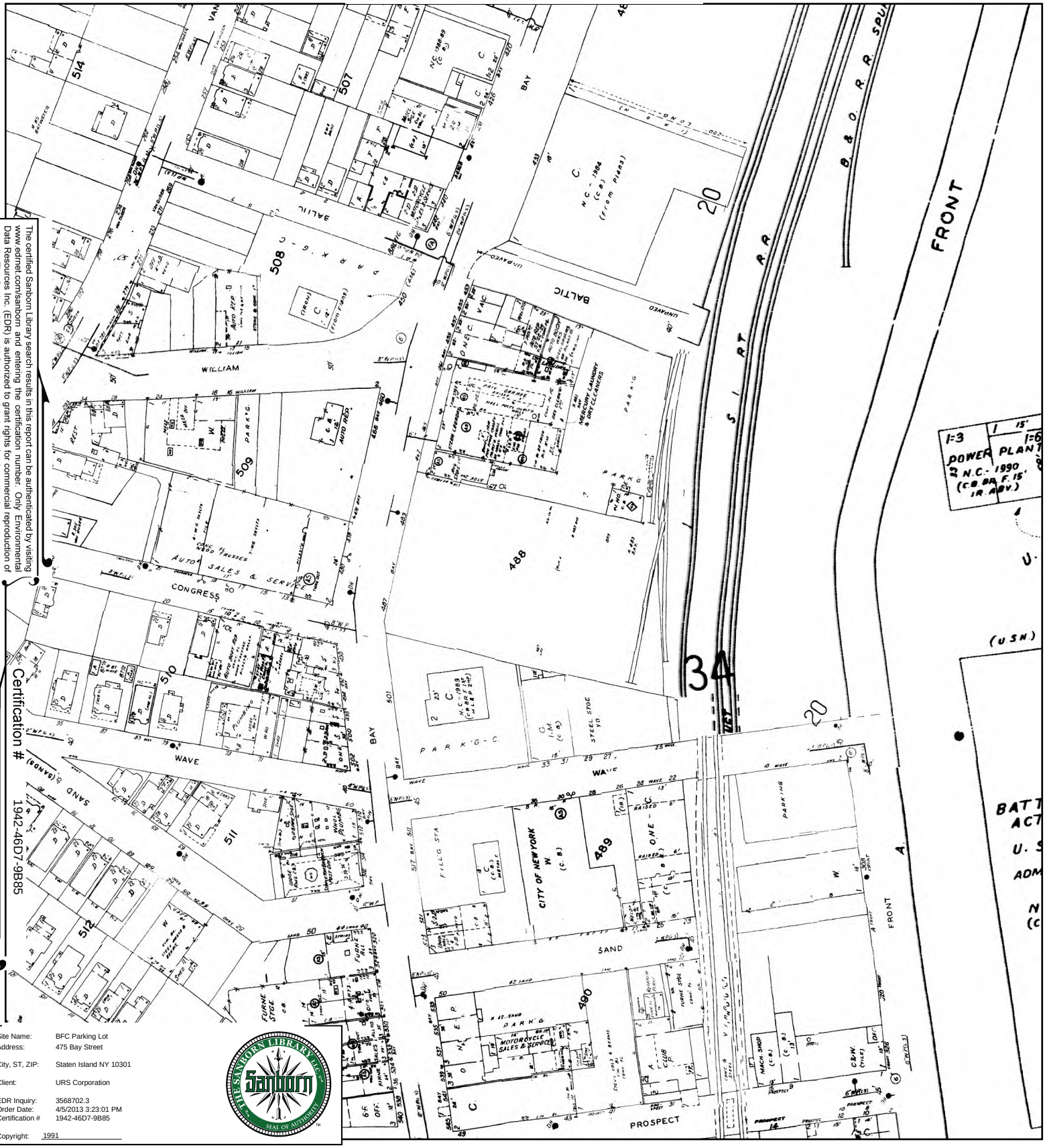


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Volume 1, Sheet 27
Volume 1, Sheet 34

0 Feet 150 300 600

N

1991 Certified Sanborn Map



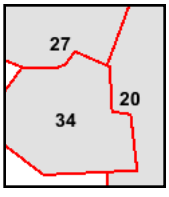
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Site Name:	BFC Parking Lot
Address:	475 Bay Street
City, ST, ZIP:	Staten Island NY 10301
Client:	URS Corporation
EDR Inquiry:	3568702.3
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Certification #	1942-46D7-9B85
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Volume 1, Sheet 27
Volume 1, Sheet 34

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1990 Certified Sanborn Map



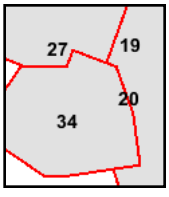
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Site Name: BFC Parking Lot
Address: 475 Bay Street
City, ST, ZIP: Staten Island NY 10301
Client: URS Corporation
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Volume 1, Sheet 20
Volume 1, Sheet 27
Volume 1, Sheet 34

0 Feet 150 300 600

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1989 Certified Sanborn Map



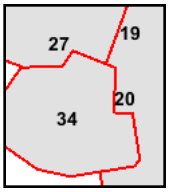
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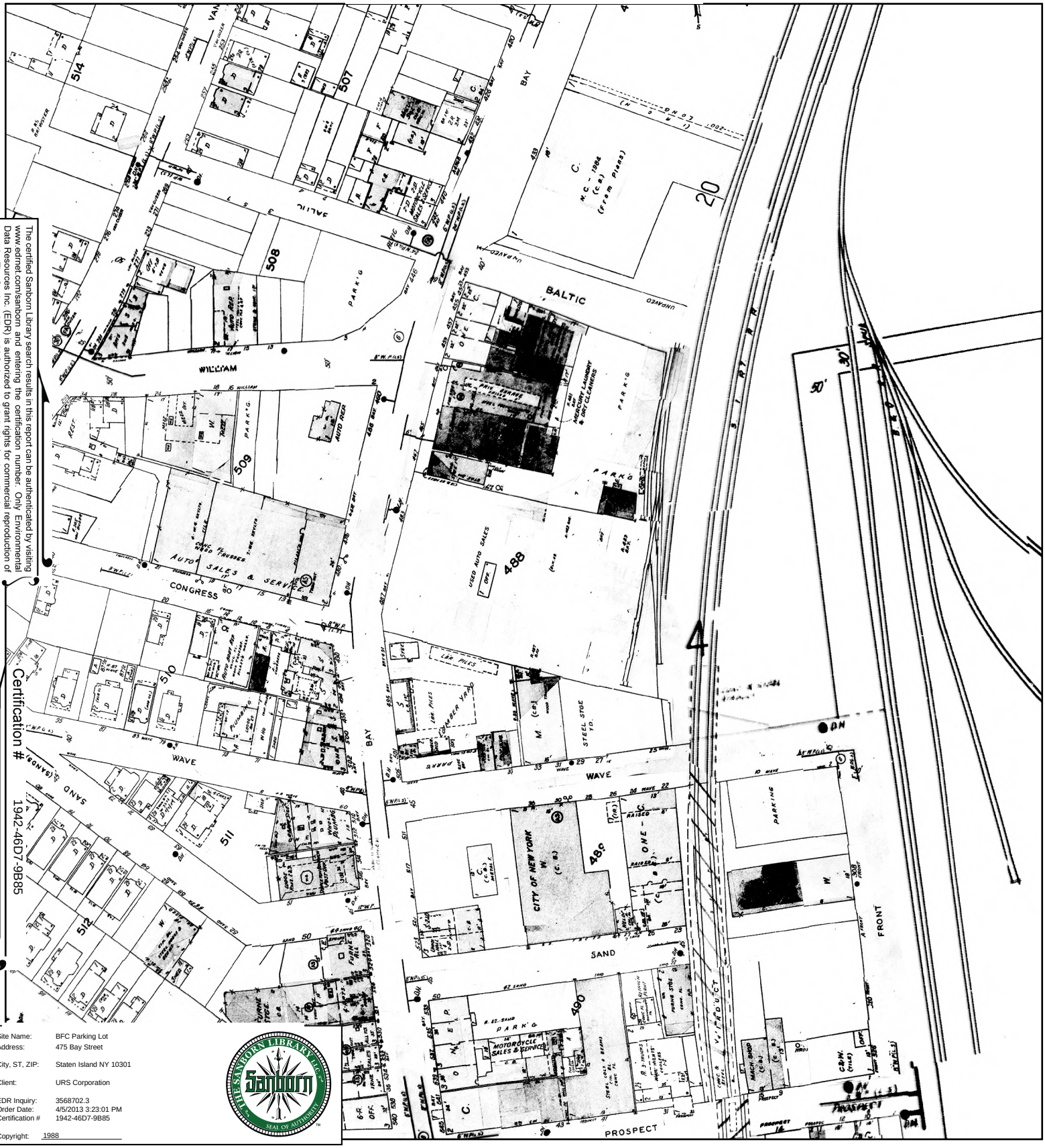


Volume 1, Sheet 27
Volume 1, Sheet 34
Volume 1, Sheet 19
Volume 1, Sheet 20

0 Feet 150 300 600

N

1988 Certified Sanborn Map



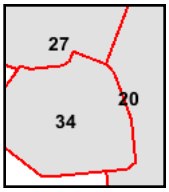
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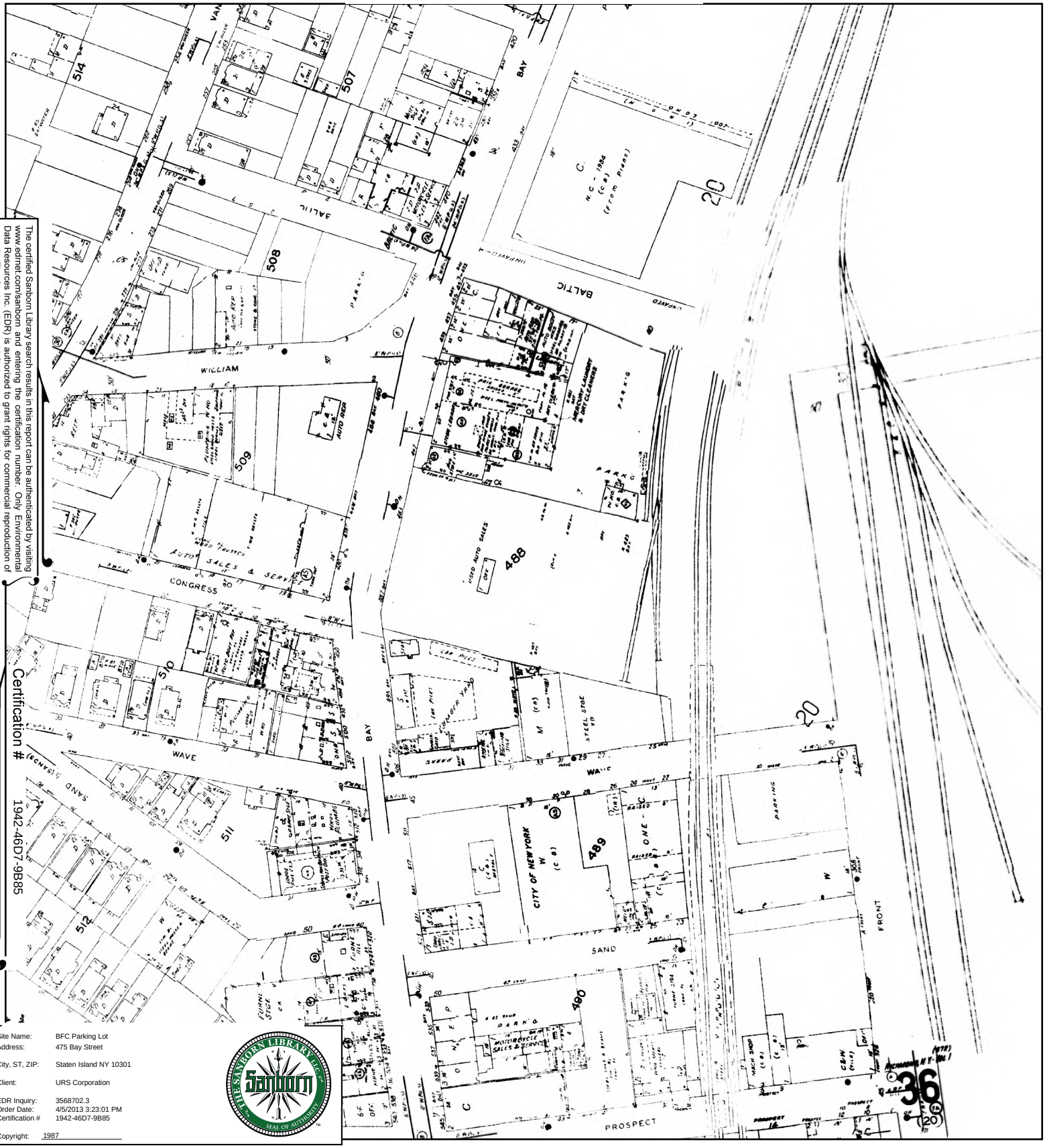


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Volume 1, Sheet 34

0 Feet 150 300 600

N

1987 Certified Sanborn Map



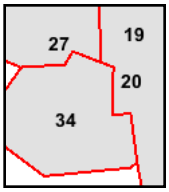
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Certification # 1942-46D7-9B85
Copyright: 1987

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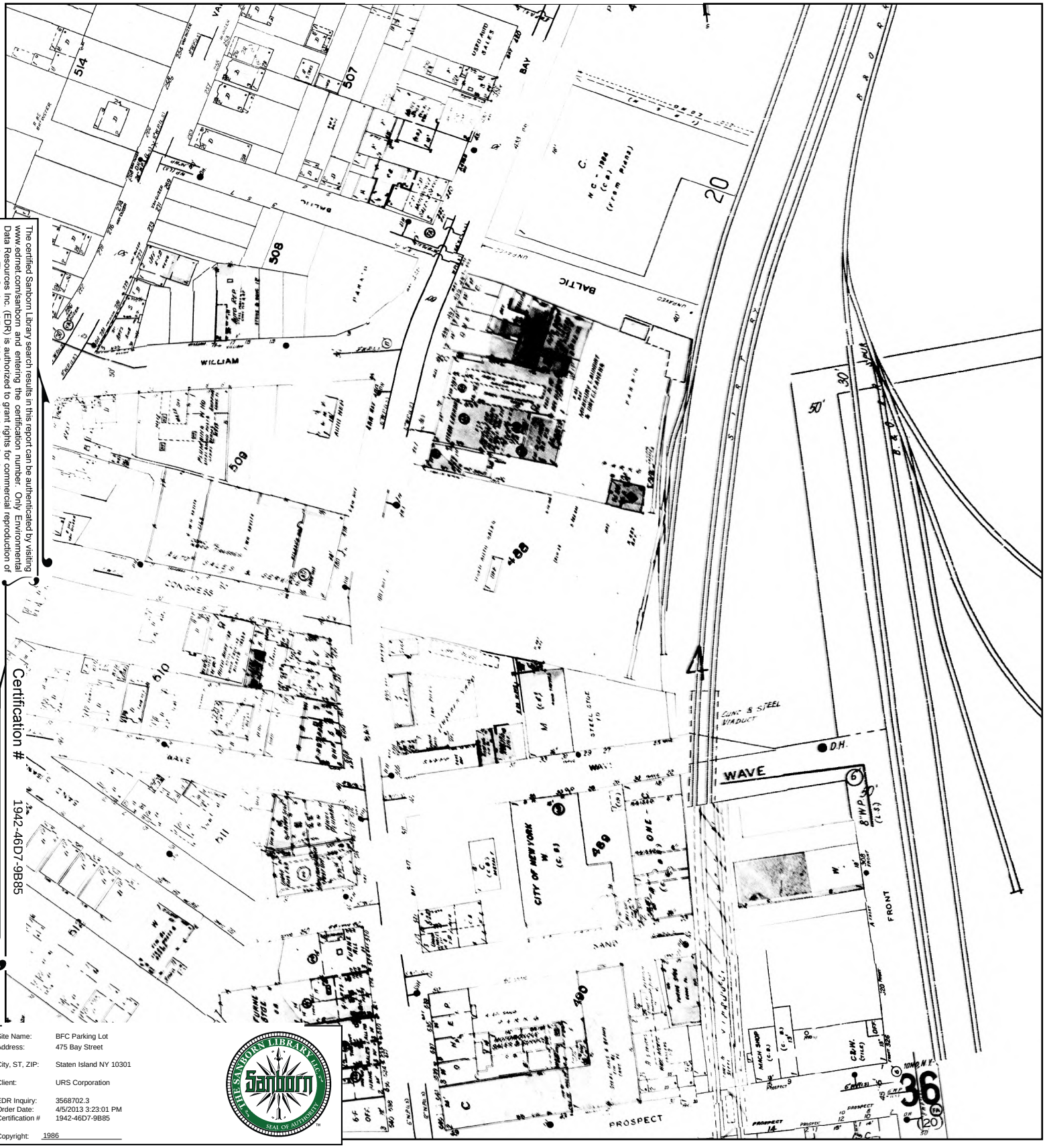


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Volume 1, Sheet 19
Volume 1, Sheet 20
Volume 1, Sheet 34

0 Feet 150 300 600

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1986 Certified Sanborn Map



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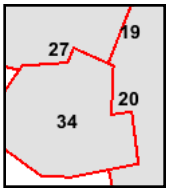
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Site Name:	BFC Parking Lot
Address:	475 Bay Street
City, ST, ZIP:	Staten Island NY 10301
Client:	URS Corporation
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Certification #	1942-46D7-9B85
Copyright:	1986

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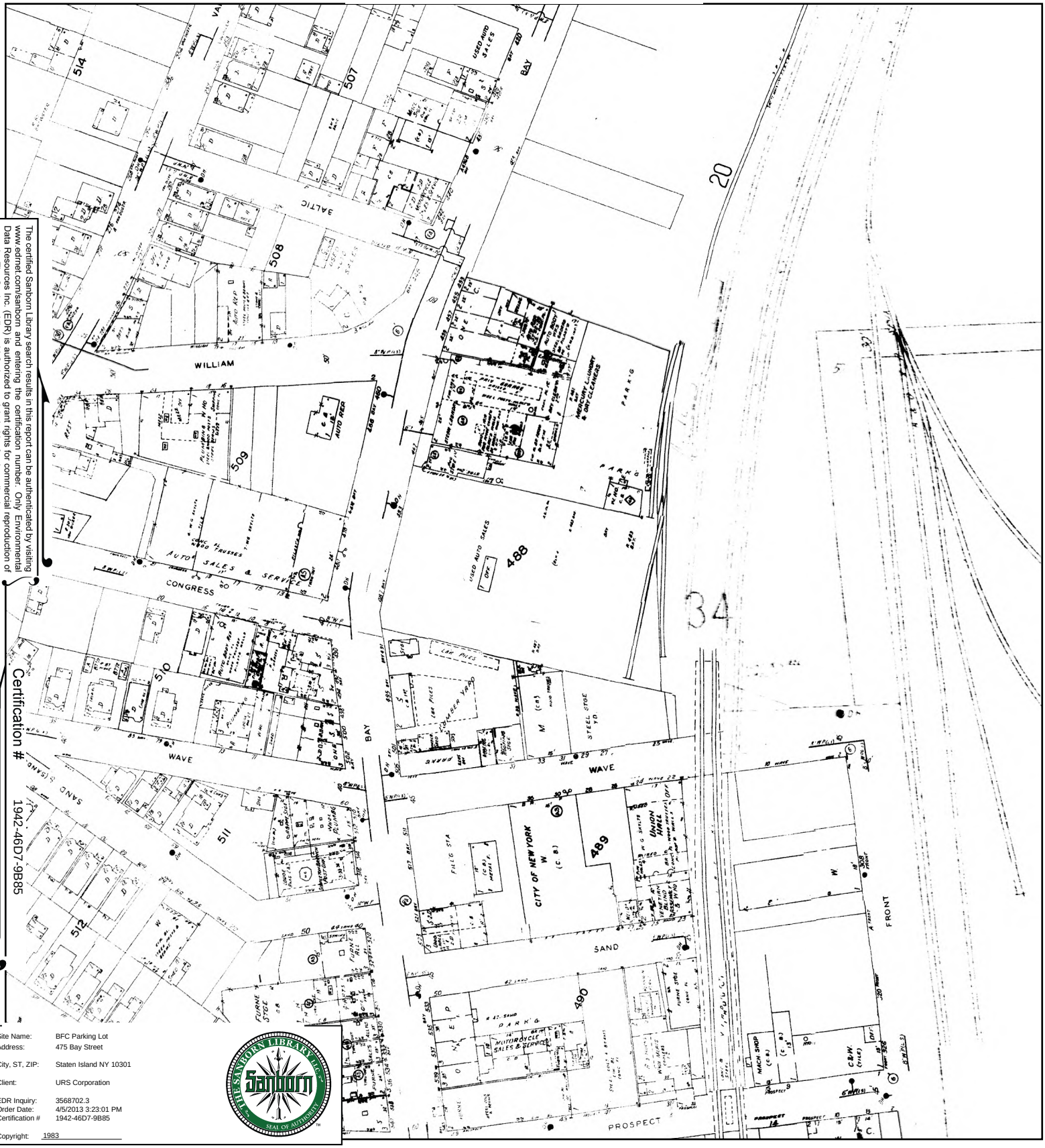


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Volume 1, Sheet 20
Volume 1, Sheet 27
Volume 1, Sheet 34

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1983 Certified Sanborn Map



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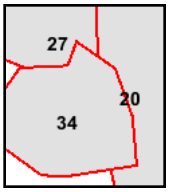
Site Name:	BFC Parking Lot
Address:	475 Bay Street
City, ST, ZIP:	Staten Island NY 10301
Client:	URS Corporation
EDR Inquiry:	3568702.3
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Certification #	1942-46D7-9B85
Copyright:	1983

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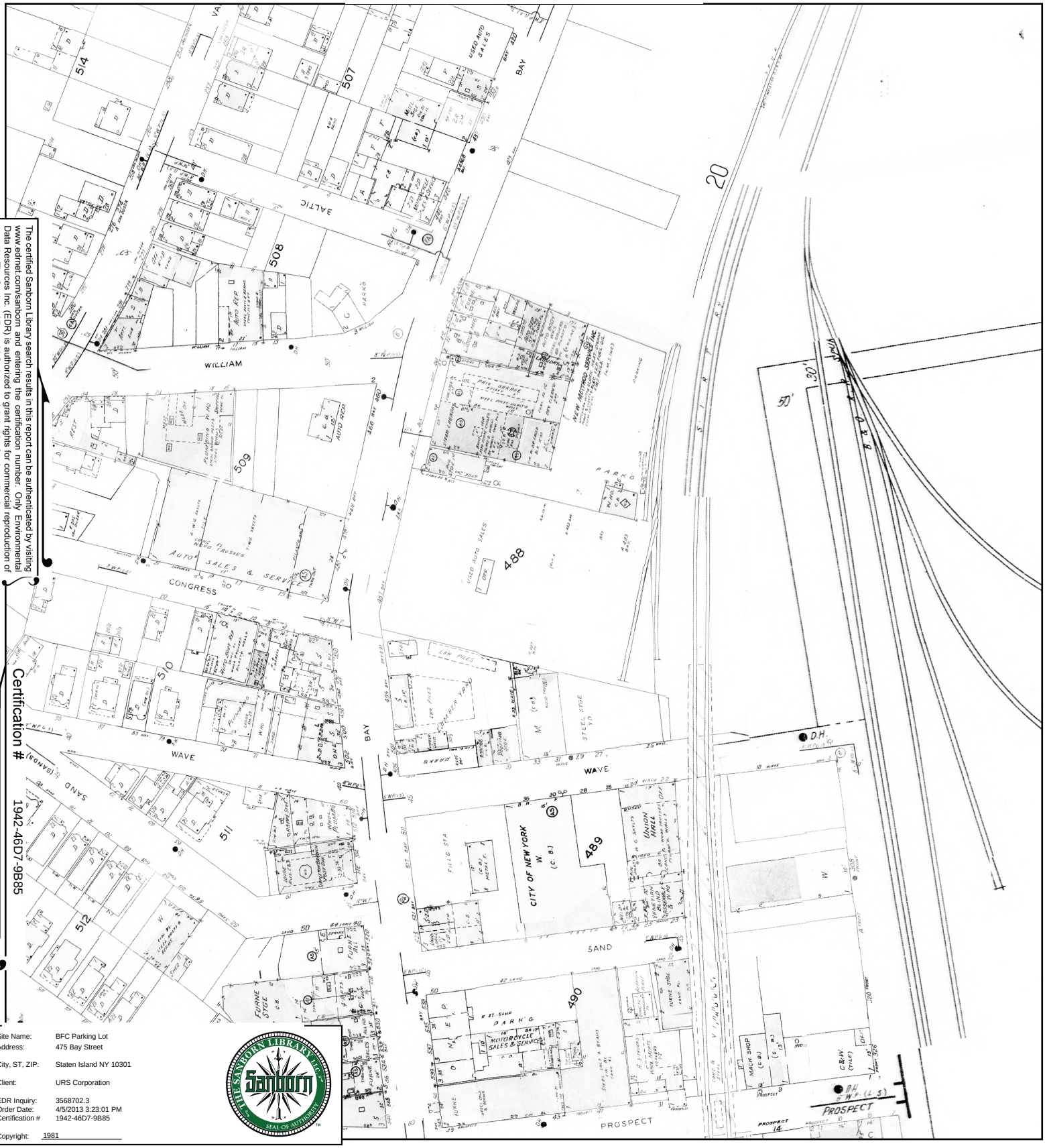




Volume 1, Sheet 20
Volume 1, Sheet 27
Volume 1, Sheet 34

N

1981 Certified Sanborn Map



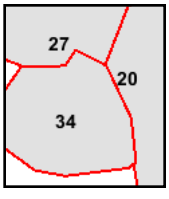
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Certification #	1942-46D7-9B85
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Volume 1, Sheet 27
Volume 1, Sheet 34

0 Feet 150 300 600

1977 Certified Sanborn Map



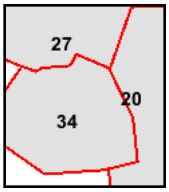
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Certification #	1942-46D7-9B85
Copyright:	1977

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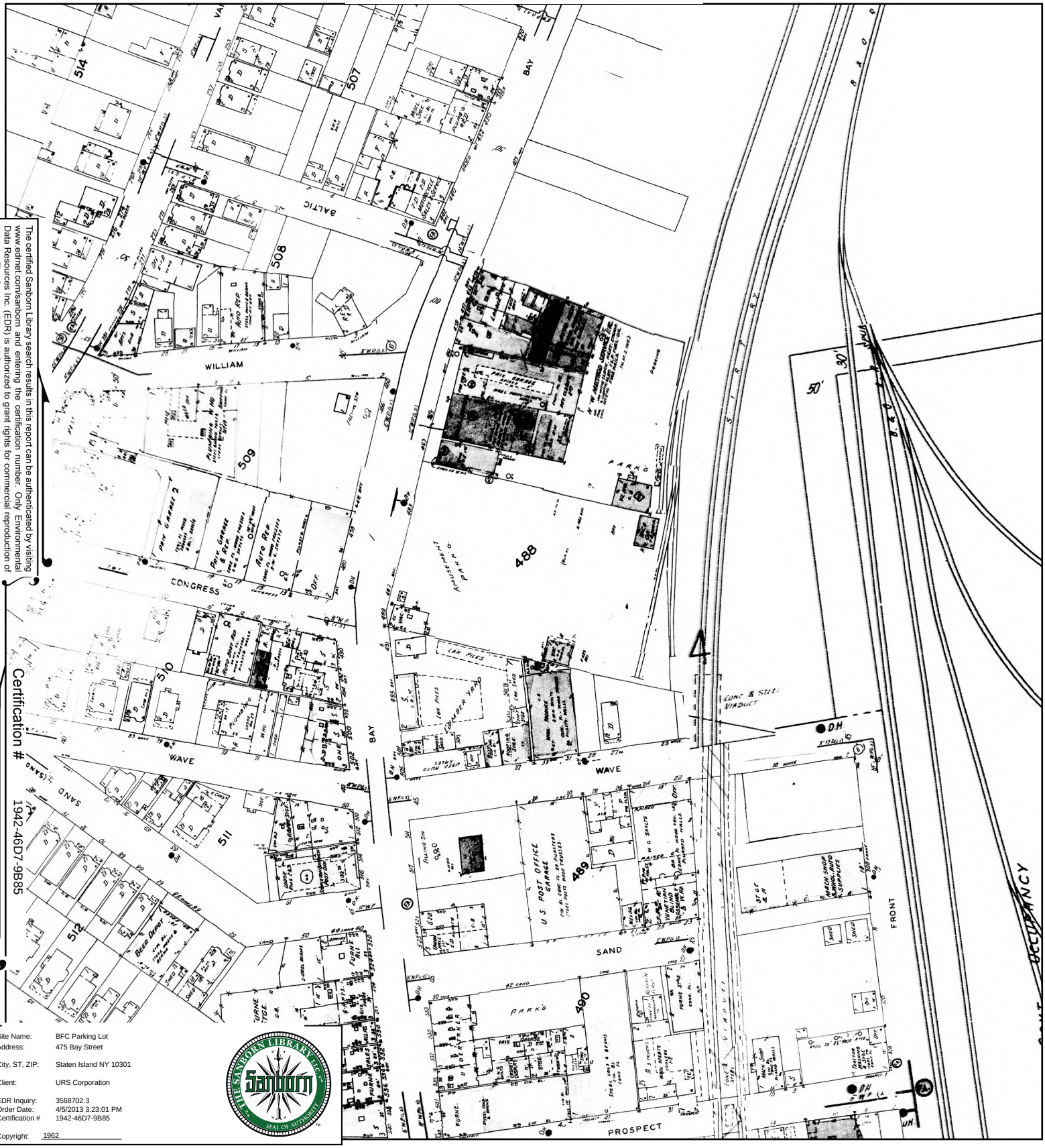


Volume 1, Sheet 34
Volume 1, Sheet 20
Volume 1, Sheet 27

0 Feet 150 300 600

N

1962 Certified Sanborn Map



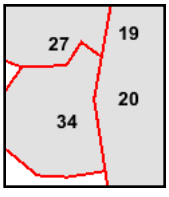
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Site Name:	BFC Parking Lot
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Certification #	1942-46D7-9B85
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Volume 1, Sheet 20
Volume 1, Sheet 27
Volume 1, Sheet 34

0 Feet 150 300 600

1950 Certified Sanborn Map



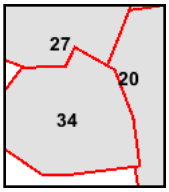
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Site Name: BFC Parking Lot
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City, ST, ZIP: Staten Island NY 10301
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Volume 1, Sheet 27
Volume 1, Sheet 34

0 Feet 150 300 600

N

1937 Certified Sanborn Map



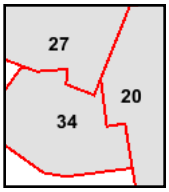
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Address:	475 Bay Street
City, ST, ZIP:	Staten Island NY 10301
Client:	URS Corporation
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Certification #	1942-46D7-9B85
Copyright:	1937

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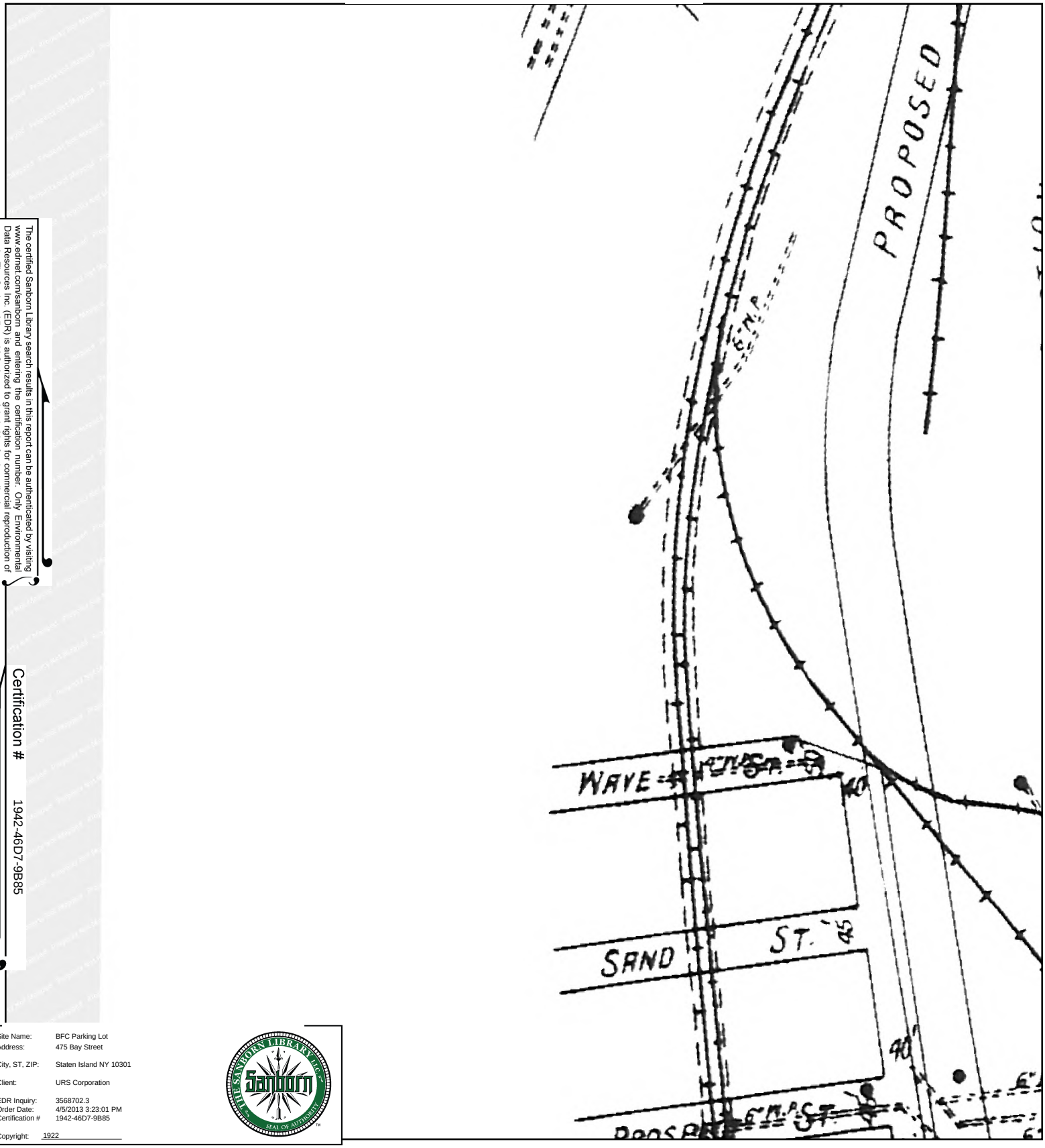


Volume 1, Sheet 20
Volume 1, Sheet 27
Volume 1, Sheet 34

0 Feet 150 300 600

N

1922 Certified Sanborn Map



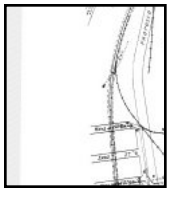
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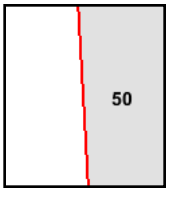
Certification # 1942-46D7-9B85

Site Name: BFC Parking Lot
Address: 475 Bay Street
City, ST, ZIP: Staten Island NY 10301
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Volume Pier Maps, Sheet 50

1917 Certified Sanborn Map



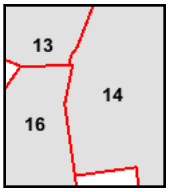
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Client:	URS Corporation
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Order Date:	4/5/2013 3:23:01 PM
Certification #	1942-46D7-9B85
Copyright:	1917

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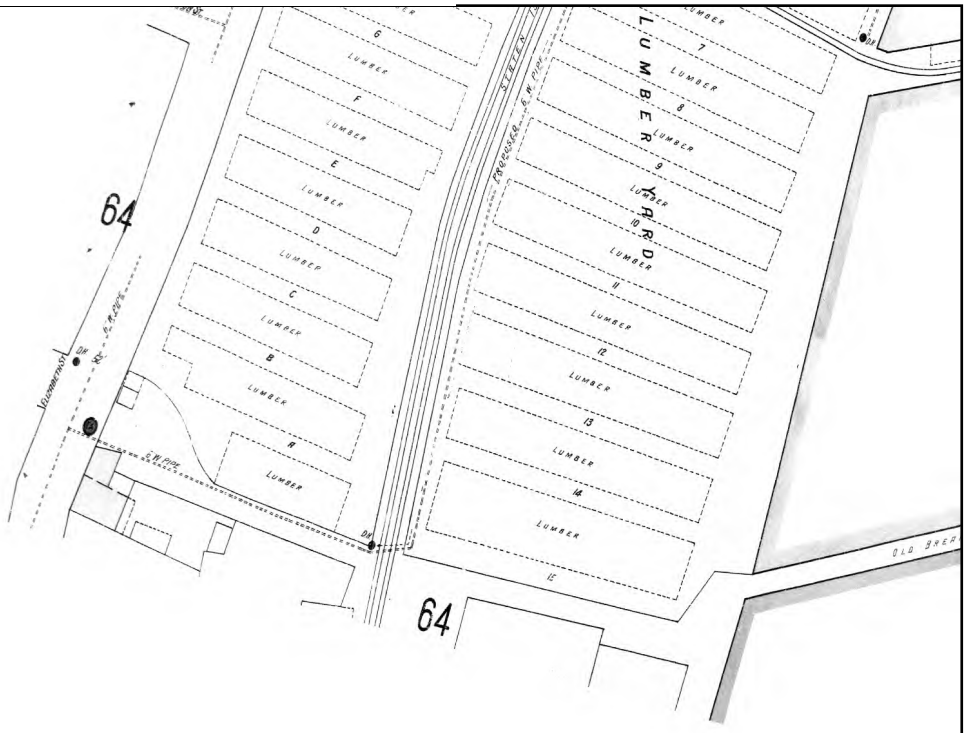


Volume 1, Sheet 13
Volume 1, Sheet 14
Volume 1, Sheet 16

0 Feet 150 300 600

N

1910 Certified Sanborn Map



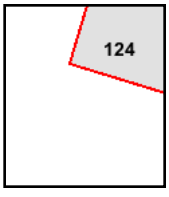
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City, ST, ZIP: Staten Island NY 10301
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Certification # 1942-46D7-9B85
Copyright: 1910

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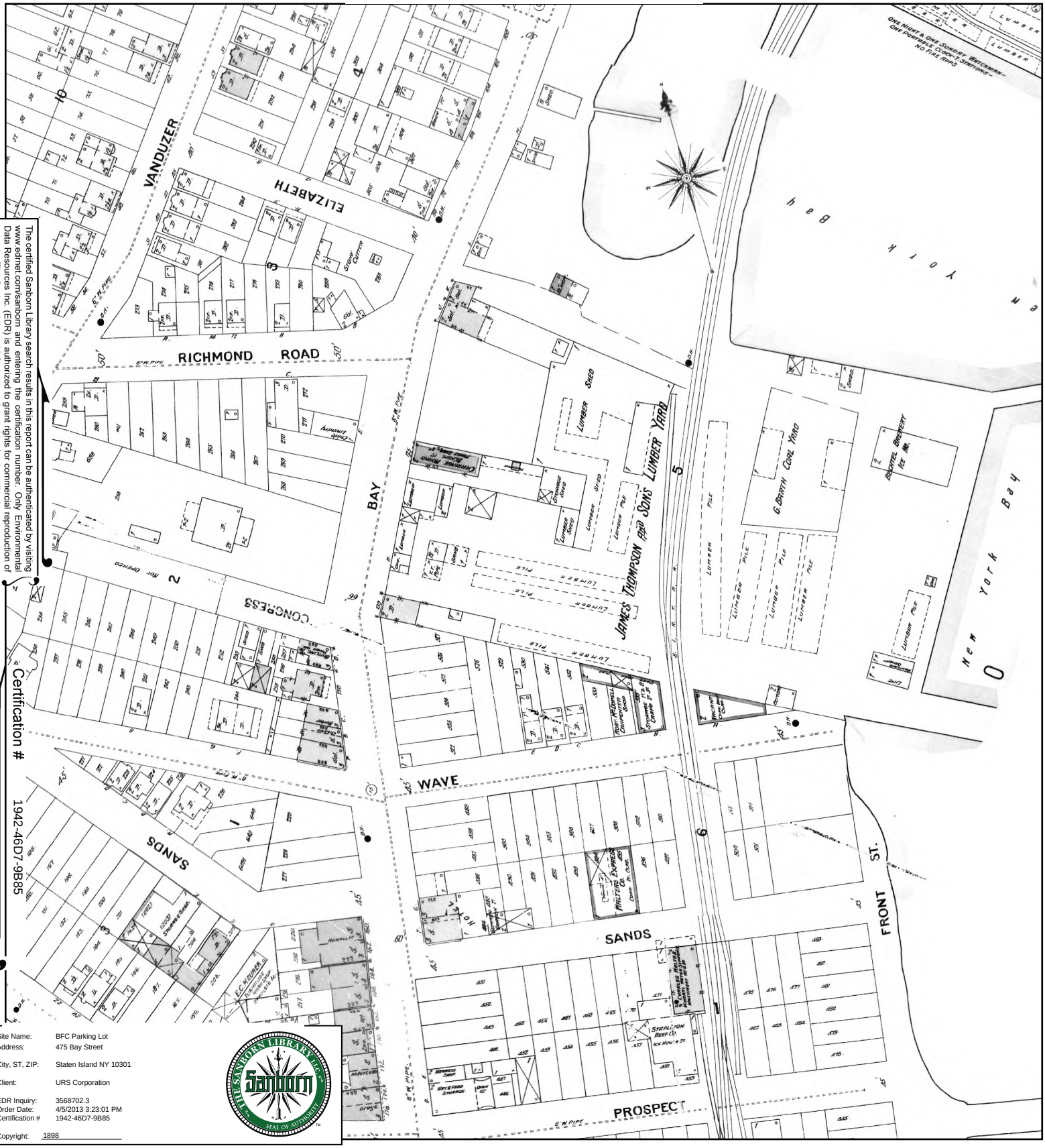


Volume 1, Sheet 124

0 Feet 150 300 600

N

1898 Certified Sanborn Map



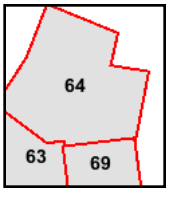
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City, ST, ZIP:	Staten Island NY 10301
Client:	URS Corporation
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Certification #	1942-46D7-9B85
Copyright:	1898

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Volume 1, Sheet 69
Volume 1, Sheet 63
Volume 1, Sheet 64

0 Feet 150 300 600

N

1885 Certified Sanborn Map



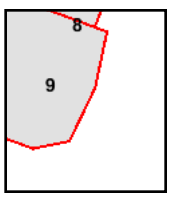
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Address: 475 Bay Street
City, ST, ZIP: Staten Island NY 10301
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Order Date: 4/5/2013 3:23:01 PM
Certification # 1942-46D7-9B85
Copyright: 1885

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Volume 1, Sheet 8
Volume 1, Sheet 9

0 Feet 150 300 600

N

BFC Parking Lot
475 Bay Street
Staten Island, NY 10301

Inquiry Number: 3568702.3
April 05, 2013

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

4/05/13

Site Name:
BFC Parking Lot
475 Bay Street
Staten Island, NY 10301

Client Name:
URS Corporation
5 Penn Plaza
New York, NY 10001

EDR Inquiry # 3568702.3

Contact: Bob Wolff

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Certified Sanborn Results:

Site Name: BFC Parking Lot
Address: 475 Bay Street
City, State, Zip: Staten Island, NY 10301
Cross Street:
P.O. # NA
Project: BFC 475 Bay Street
Certification # 1942-46D7-9B85

Maps Provided:

2007	2001	1991	1983	1922
2006	1996	1990	1981	1917
2005	1995	1989	1977	1910
2004	1994	1988	1962	1898
2003	1993	1987	1950	1885
2002	1992	1986	1937	

Sanborn® Library search results
Certification # 1942-46D7-9B85

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
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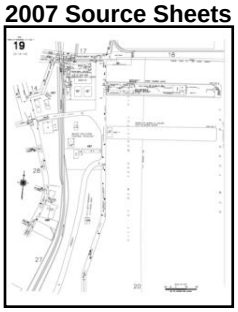
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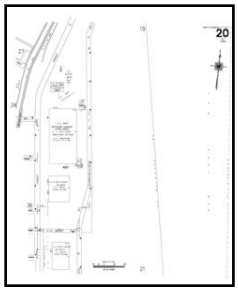
Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2007 Source Sheets



Volume 1, Sheet 19



Volume 1, Sheet 20

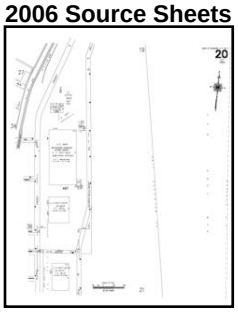


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Volume 1, Sheet 34

2006 Source Sheets



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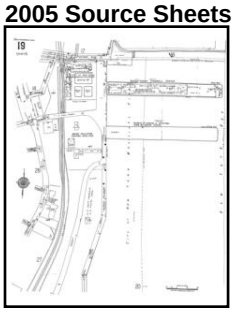


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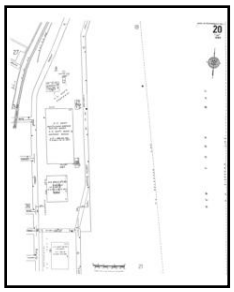


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2005 Source Sheets



Volume 1, Sheet 19



Volume 1, Sheet 20

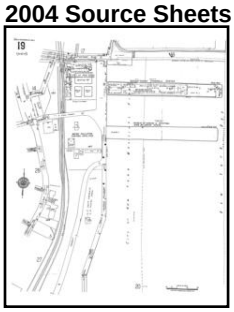


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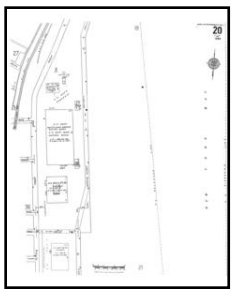


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2004 Source Sheets



Volume 1, Sheet 19



Volume 1, Sheet 20

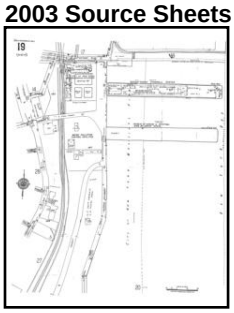


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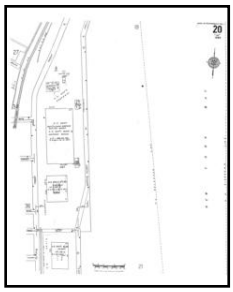


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2003 Source Sheets



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Volume 1, Sheet 20



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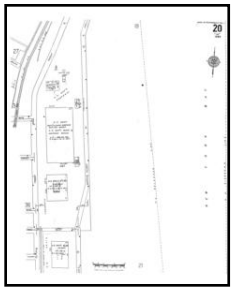


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Volume 1, Sheet 34

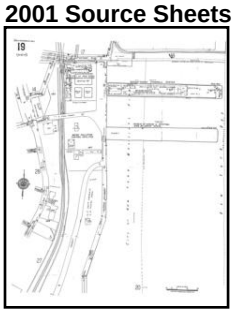


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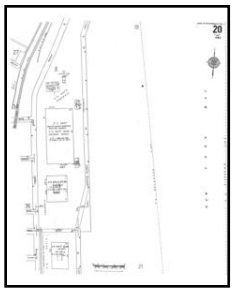


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2001 Source Sheets



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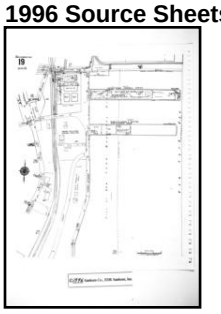


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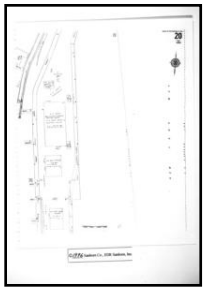


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1996 Source Sheets



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Volume 1, Sheet 20



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1995 Source Sheets



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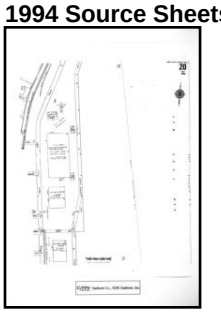


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1994 Source Sheets



Volume 1, Sheet 20



Volume 1, Sheet 27



Volume 1, Sheet 34

1993 Source Sheets



Volume 1, Sheet 20



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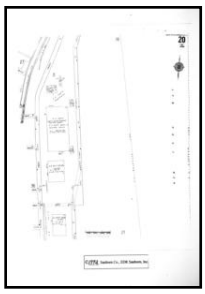


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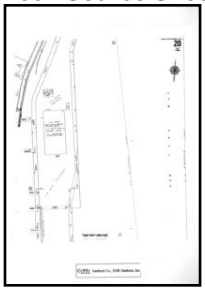


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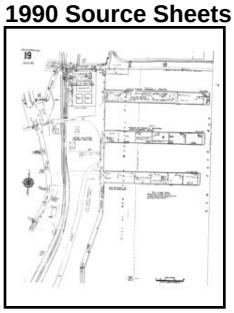


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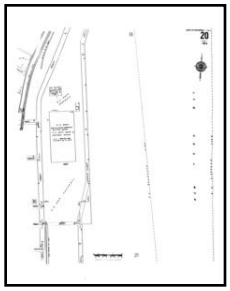


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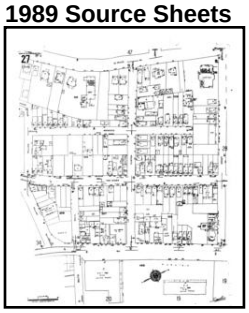


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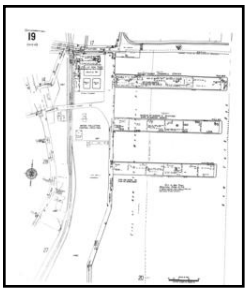
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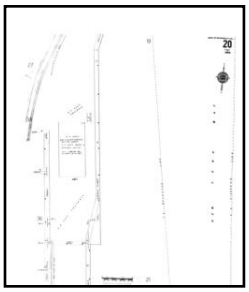
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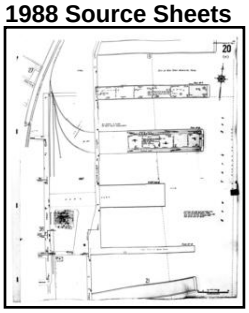


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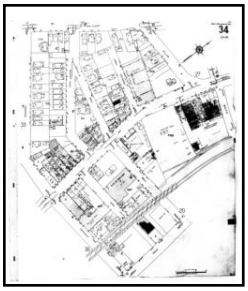
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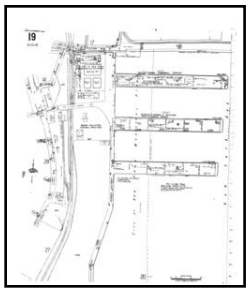


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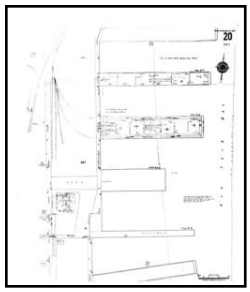
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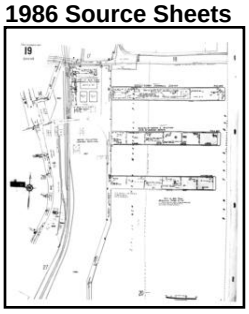


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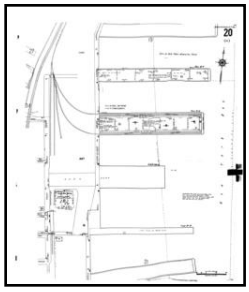


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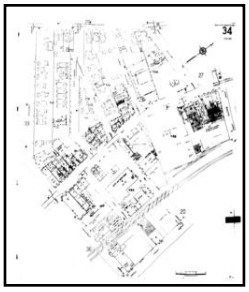
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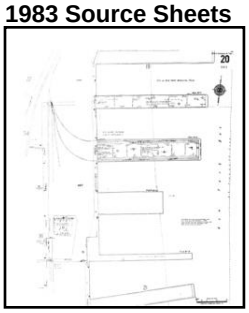


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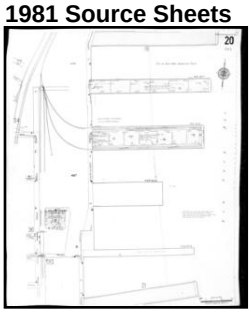


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1981 Source Sheets



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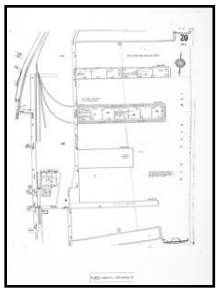


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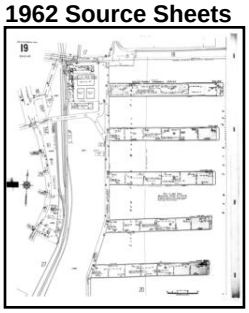


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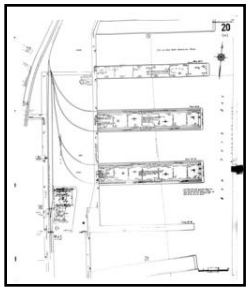


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1962 Source Sheets



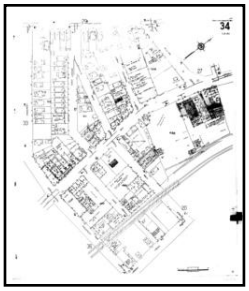
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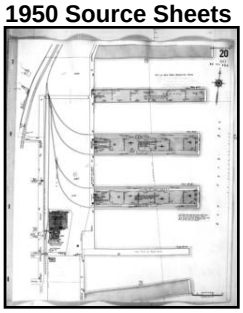


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1950 Source Sheets



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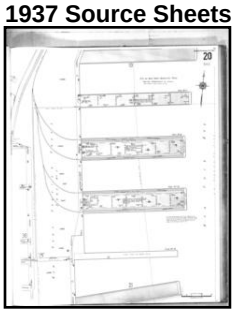


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1937 Source Sheets



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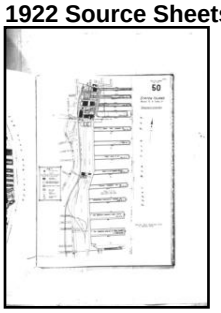


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1922 Source Sheets

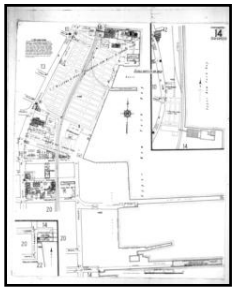


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1917 Source Sheets



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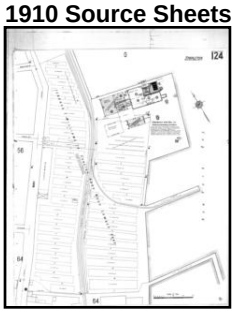


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Volume 1, Sheet 16

1910 Source Sheets



Volume 1, Sheet 124

1898 Source Sheets



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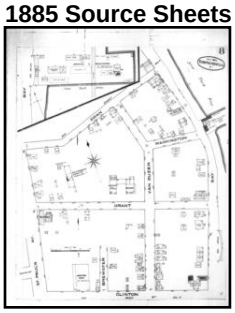


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1885 Source Sheets

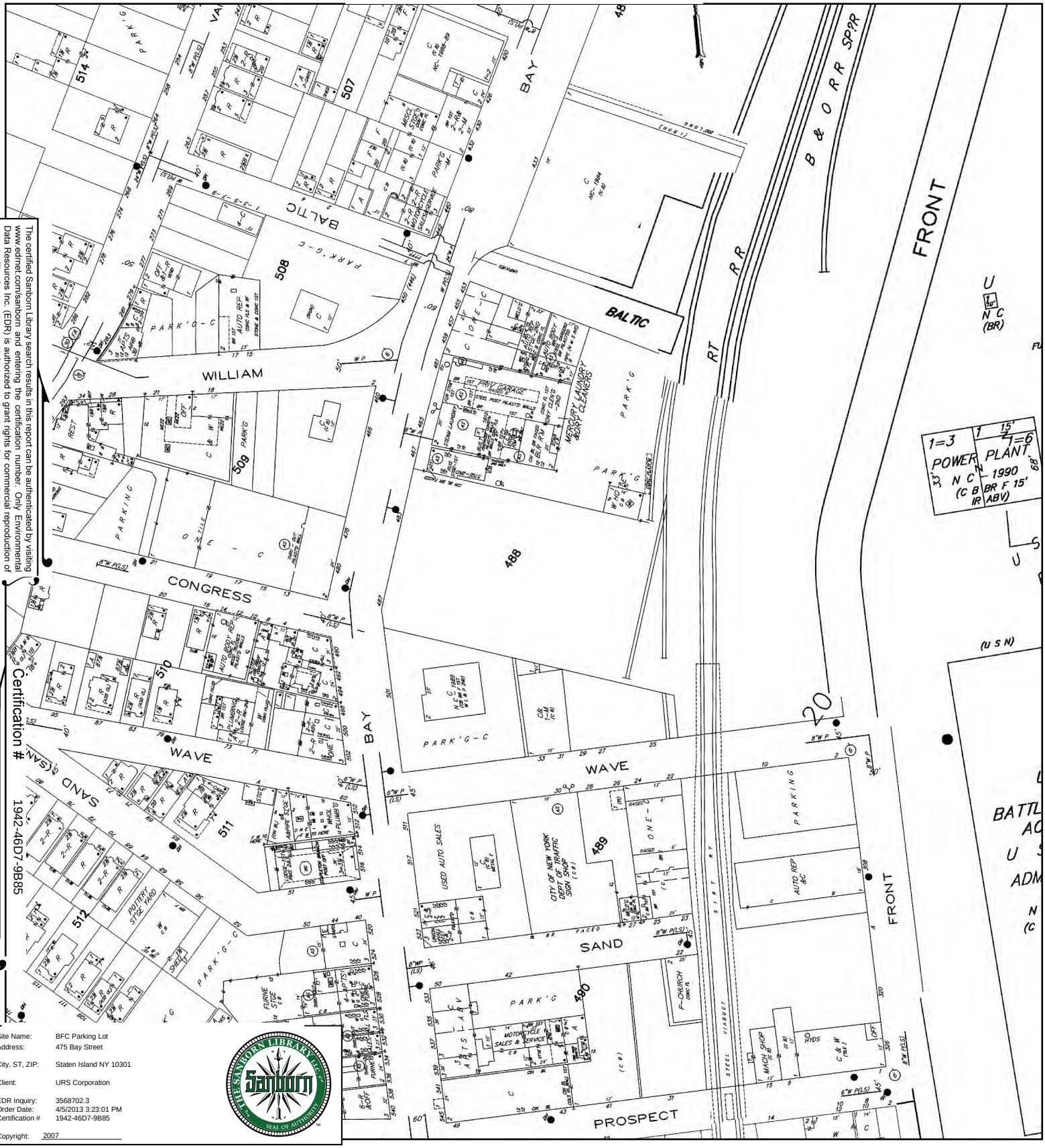


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2007 Certified Sanborn Map



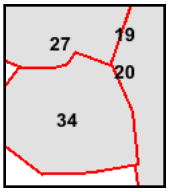
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Certification # 1942-46D7-9B85

Site Name:	BFC Parking Lot
Address:	475 Bay Street
City, ST, ZIP:	Staten Island NY 10301
Client:	URS Corporation
EDR Inquiry:	3568702.3
Order Date:	4/5/2013 3:23:01 PM
Certification #	1942-46D7-9B85
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Volume 1, Sheet 27
Volume 1, Sheet 34

0 Feet 150 300 600

N

2006 Certified Sanborn Map



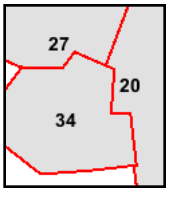
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Certification # 1942-46D7-9B85

Site Name: BFC Parking Lot
Address: 475 Bay Street
City, ST, ZIP: Staten Island NY 10301
Client: URS Corporation
EDR Inquiry: 3568702.3
Order Date: 4/5/2013 3:23:01 PM
Certification # 1942-46D7-9B85
Copyright: 2006

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Outlined areas indicate map sheets within the collection.





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Volume 1, Sheet 27
Volume 1, Sheet 34

0 Feet 150 300 600

N

2005 Certified Sanborn Map



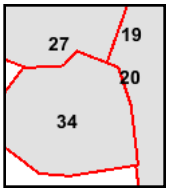
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Certification #: 1942-46D7-9B85

Site Name:	BFC Parking Lot
Address:	475 Bay Street
City, ST, ZIP:	Staten Island NY 10301
Client:	URS Corporation
EDR Inquiry:	3568702.3
Order Date:	4/5/2013 3:23:01 PM
Certification #	1942-46D7-9B85
Copyright:	2005

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Outlined areas indicate map sheets within the collection.



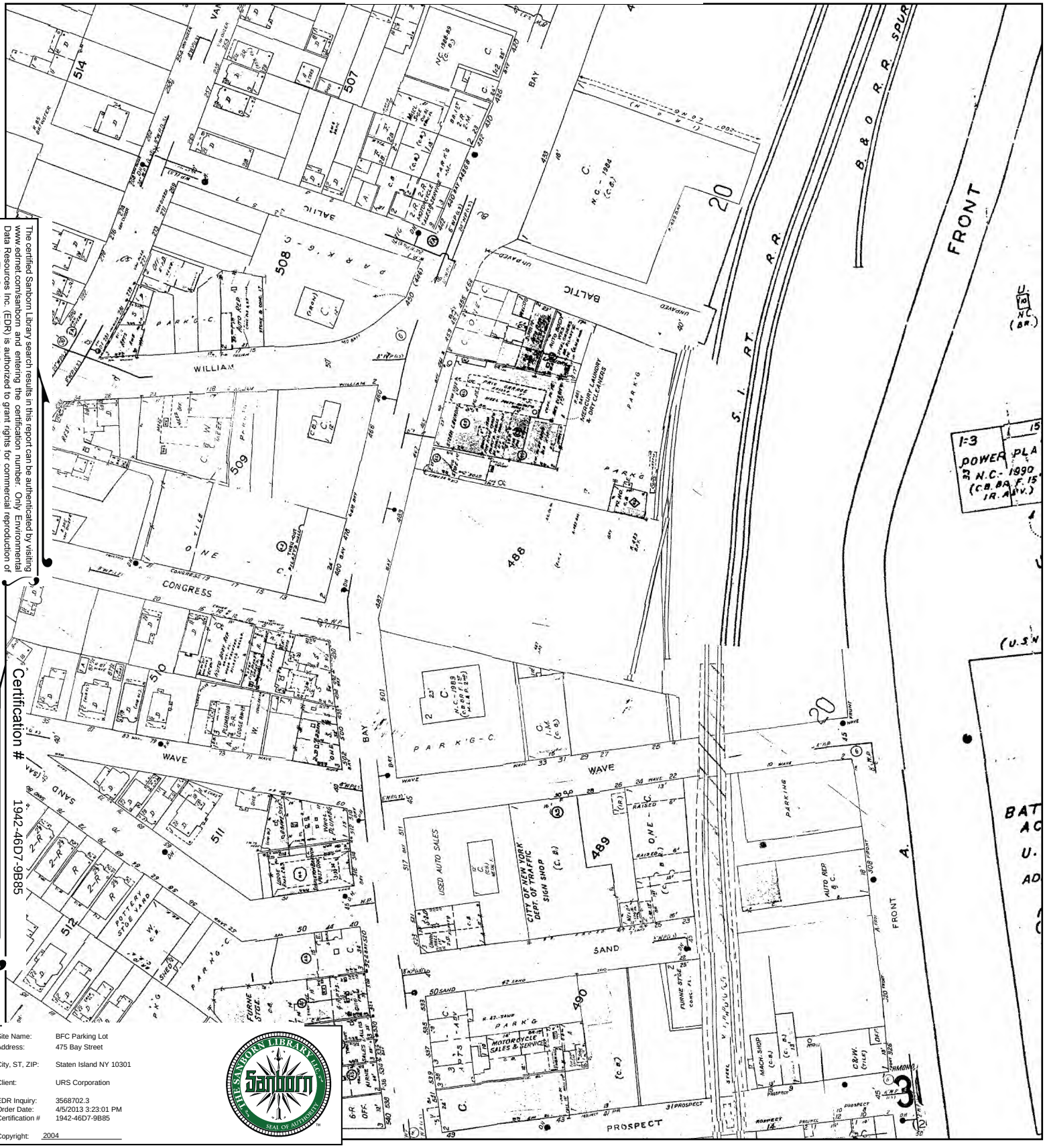


Volume 1, Sheet 19
Volume 1, Sheet 20
Volume 1, Sheet 27
Volume 1, Sheet 34

0 Feet 150 300 600

N

2004 Certified Sanborn Map



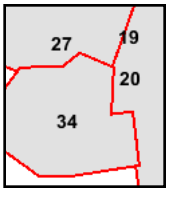
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Certification # 1942-46D7-9B85

Site Name: BFC Parking Lot
Address: 475 Bay Street
City, ST, ZIP: Staten Island NY 10301
Client: URS Corporation
EDR Inquiry: 3568702.3
Order Date: 4/5/2013 3:23:01 PM
Certification # 1942-46D7-9B85
Copyright: 2004

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Volume 1, Sheet 19
Volume 1, Sheet 20
Volume 1, Sheet 27
Volume 1, Sheet 34

0 Feet 150 300 600

N

2003 Certified Sanborn Map



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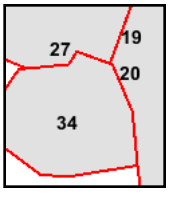
Certification # 1942-46D7-9B85

Site Name:	BFC Parking Lot
Address:	475 Bay Street
City, ST, ZIP:	Staten Island NY 10301
Client:	URS Corporation
EDR Inquiry:	3568702.3
Order Date:	4/5/2013 3:23:01 PM
Certification #	1942-46D7-9B85
Copyright:	2003

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Volume 1, Sheet 27
Volume 1, Sheet 34

0 Feet 150 300 600

N

2002 Certified Sanborn Map



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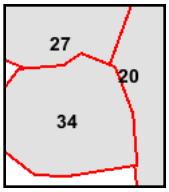
Certification # 1942-46D7-9B85

Site Name:	BFC Parking Lot
Address:	475 Bay Street
City, ST, ZIP:	Staten Island NY 10301
Client:	URS Corporation
EDR Inquiry:	3568702.3
Order Date:	4/5/2013 3:23:01 PM
Certification #	1942-46D7-9B85
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Volume 1, Sheet 34
Volume 1, Sheet 20
Volume 1, Sheet 27

0 Feet 150 300 600

N

2001 Certified Sanborn Map



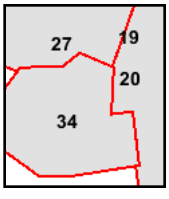
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Certification # 1942-46D7-9B85

Site Name:	BFC Parking Lot
Address:	475 Bay Street
City, ST, ZIP:	Staten Island NY 10301
Client:	URS Corporation
EDR Inquiry:	3568702.3
Order Date:	4/5/2013 3:23:01 PM
Certification #	1942-46D7-9B85
Copyright:	2001

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Outlined areas indicate map sheets within the collection.



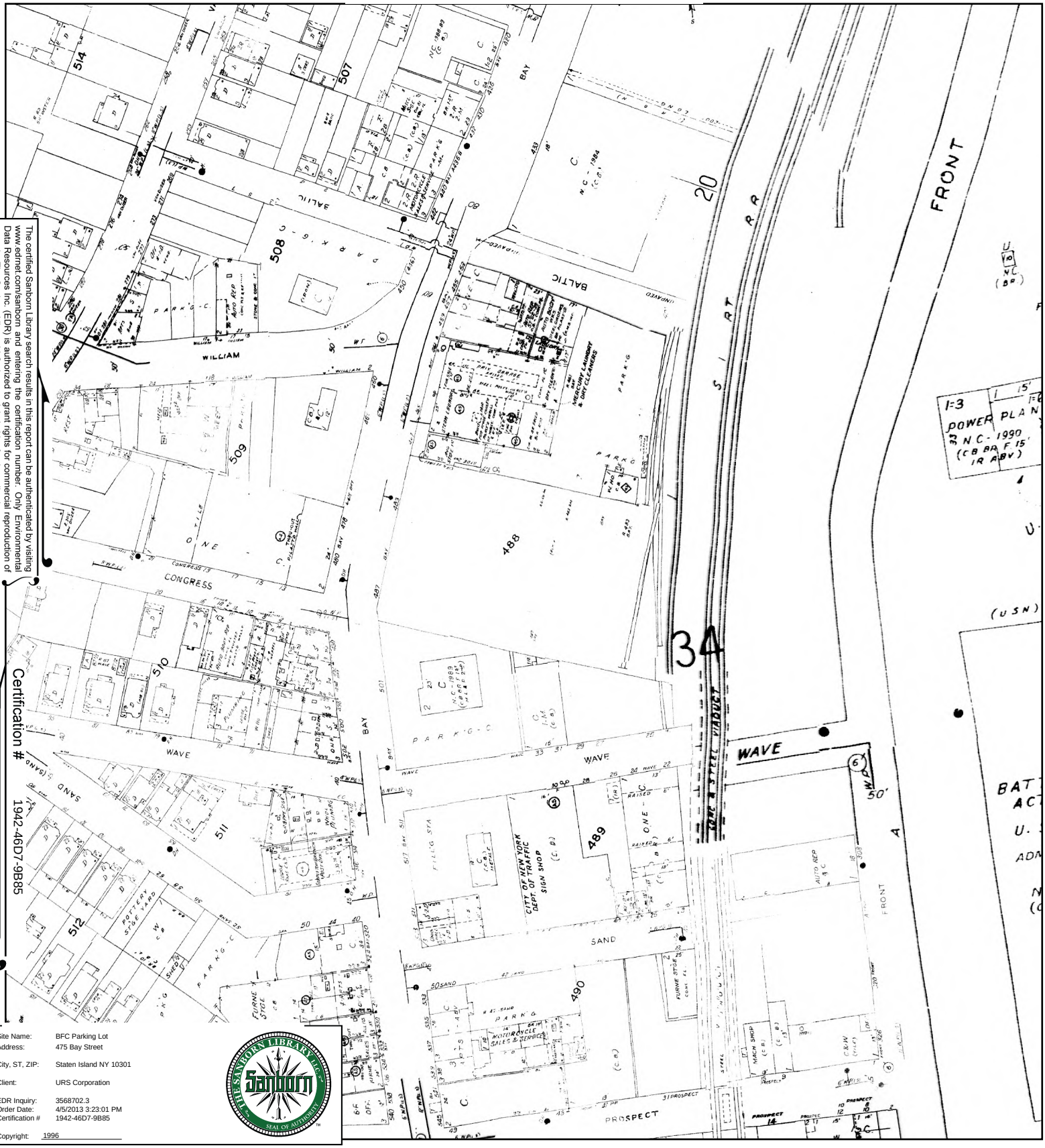


Volume 1, Sheet 19
Volume 1, Sheet 20
Volume 1, Sheet 27
Volume 1, Sheet 34

0 Feet 150 300 600

N

1996 Certified Sanborn Map



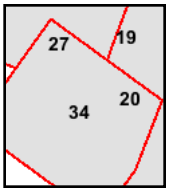
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Certification # 1942-46D7-9B85

Site Name:	BFC Parking Lot
Address:	475 Bay Street
City, ST, ZIP:	Staten Island NY 10301
Client:	URS Corporation
EDR Inquiry:	3568702.3
Order Date:	4/5/2013 3:23:01 PM
Certification #	1942-46D7-9B85
Copyright:	1996

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Volume 1, Sheet 19
Volume 1, Sheet 20
Volume 1, Sheet 27
Volume 1, Sheet 34

0 Feet 150 300 600

N


INQUIRY #: 3568702.5
YEAR: 2008
= 500'
N


INQUIRY #: 3568702.5
YEAR: 2009
= 500'
N


INQUIRY #: 3568702.5
YEAR: 1975
= 500'
N


INQUIRY #: 3568702.5
YEAR: 1984
= 500'
N


INQUIRY #: 3568702.5
YEAR: 1995,1991 (DOQQ)
= 500'
N


INQUIRY #: 3568702.5
YEAR: 2006
= 500'
N

BFC Parking Lot
475 Bay Street
Staten Island, NY 10301

Inquiry Number: 3568702.5
April 05, 2013

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EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

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Date EDR Searched Historical Sources:

Aerial Photography April 05, 2013

Target Property:

475 Bay Street

Staten Island, NY 10301

Year	***Scale***	***Details***	***Source***
1924	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: July 01, 1924	EDR
1943	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: December 23, 1943	EDR
1954	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: February 27, 1954	EDR
1966	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: February 23, 1966	EDR
1975	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: April 01, 1975	EDR
1984	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Date: April 27, 1984	EDR
1995,1991	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Composite DOQQ - acquisition dates: March 29, 1995,March 09, 1991	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Year: 2006	EDR
2008	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Year: 2008	EDR
2009	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Year: 2009	EDR
2010	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Year: 2010	EDR
2011	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;/Flight Year: 2011	EDR



INQUIRY #: 3568702.5

YEAR: 1924

= 500'

N

EDR Environmental Data Resources Inc


INQUIRY #: 3568702.5
YEAR: 1943
= 500'
N



INQUIRY #: 3568702.5

YEAR: 1954

= 500'

N

EDR Environmental Data Resources Inc


INQUIRY #: 3568702.5
YEAR: 1966
= 500'
N
EDR Environmental Data Resources Inc


INQUIRY #: 3568702.5
YEAR: 2010
= 500'
N


INQUIRY #: 3568702.5
YEAR: 2011
= 500'
N

APPENDIX G

BFC Parking Lot
475 Bay Street
Staten Island, NY 10301

Inquiry Number: 3568702.2s
April 05, 2013

EDR Summary Radius Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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Physical Setting Source Map	A-7
Physical Setting Source Map Findings	A-8
Physical Setting Source Records Searched	A-18

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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 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

475 BAY STREET
STATEN ISLAND, NY 10301

COORDINATES

Latitude (North):	40.6305000 - 40° 37' 49.80''
Longitude (West):	74.0766000 - 74° 4' 35.76''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	578094.0
UTM Y (Meters):	4497939.0
Elevation:	16 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	TP
Source:	USGS 7.5 min quad index

Target Property:	S
Source:	USGS 7.5 min quad index

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	2010, 2011
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
475 BAY STREET
STATEN ISLAND, NY 10301

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft.) DIRECTION
A1	HARBOR ISLE CHEVROLE	478 BAY ST	RCRA NonGen / NLR, FINDS, MANIFEST	Higher	8, SSW
A2		465 BAY ST	EDR US Hist Cleaners	Higher	37, North
A3	NEW METHOD SERVICE C	465 BAY STRE	RCRA NonGen / NLR, FINDS	Higher	37, North
A4	NEW METHOD SCR CO	465 BAY STREET	UST, HIST UST, MANIFEST	Higher	37, North
A5		490 BAY ST	EDR US Hist Auto Stat	Higher	68, SSW
B6	A JOFI'S AUTO BODY I	33 WAVE STREET	SWF/LF	Lower	71, SSE
B7		31 WAVE ST	EDR US Hist Auto Stat	Lower	105, SSE
B8		33 WAVE ST	EDR US Hist Auto Stat	Lower	114, SSE
B9	NYCDOT	34 WAVE ST	RCRA NonGen / NLR, FINDS	Lower	140, SSE
B10	WAVE STREET YARD DOT	34 WAVE STREET	NY Spills, NY Hist Spills	Lower	140, SSE
B11	34 WAVE STREET	34 WAVE STREET	NY Hist Spills	Lower	140, SSE
A12	BAY ST & WILLIAMS ST	BAY ST & WILLIAMS ST	NY Spills, NY Hist Spills	Higher	148, WNW
A13		15 WILLIAM ST	EDR US Hist Auto Stat	Higher	169, NW
14	29 BALTIC STREET	29 BALTIC ST	LTANKS, HIST LTANKS	Higher	187, NNW
A15		511 BAY ST	EDR US Hist Auto Stat	Higher	189, South
A16	HOMEPORT SERVICE STA	511 BAY ST	LTANKS, HIST LTANKS, MANIFEST, NY Spills, NY Hist...	Higher	189, South
A17	SERVICE STATION	511-517 BAY ST	RCRA NonGen / NLR, FINDS	Higher	189, South
A18	BAY ST & WAVE ST/S.I	BAY STREET / WAVE ST	NY Hist Spills	Higher	189, South
A19	HOME PORT SER ST INC	511 BAY STREET	UST, HIST UST	Higher	189, South
A20		510 BAY ST	EDR US Hist Auto Stat	Higher	193, South
21	MARINE COMPANY 9	305 FRONT STREET	AST, HIST AST	Lower	212, East
C22	NEW STAPLETON WATERF	FRONT & WAVE ST	RCRA-LQG	Lower	218, ESE
A23		73 WAVE ST	NY Spills, NY Hist Spills	Higher	232, SW
A24		70 WAVE ST	EDR US Hist Auto Stat	Higher	232, SSW
C25	NAVSTA N Y FORT WADS	FORT WADSWORTH	RCRA NonGen / NLR, PADS, MANIFEST	Lower	261, ESE
C26	STATEN ISLAND HOME P	355 FRONT ST	NY Hist Spills	Lower	266, ESE
C27	NAVAL STATION SAPLET	355 FRONT STREET	CERC-NFRAP, RCRA NonGen / NLR, FINDS, MANIFEST	Lower	266, ESE
C28	STAPLETON FACILITY	355 FRONT STREET	UST	Lower	266, ESE
C29	STAPLETON FACILITY	355 FRONT STREET	HIST UST, AST, HIST AST	Lower	266, ESE
C30	355 FRONT ST/US NAVY	355 FRONT ST	NY Hist Spills	Lower	266, ESE
C31	355 FRONT STREET	355 FRONT STREET	LTANKS, HIST LTANKS, NY Spills, NY Hist Spills	Lower	266, ESE
C32	LOT 25,TAXBLOCK 489	308 FRONT STREET	E DESIGNATION	Lower	298, SE
C33		308 FRONT ST	EDR US Hist Auto Stat	Lower	298, SE
B34		27 SANDS ST	EDR US Hist Auto Stat	Lower	305, SSE
D35	THOMAS J. MANZO; INC	320 FRONT ST	SWF/LF	Lower	398, SE
D36	LOT 45,TAXBLOCK 490	15 PROSPECT STREET	E DESIGNATION	Lower	445, SSE
D37	LOT 29,TAXBLOCK 491	14 PROSPECT STREET	E DESIGNATION	Lower	454, SSE
D38	LOT 32,TAXBLOCK 491	10 PROSPECT STREET	E DESIGNATION	Lower	460, SE
D39	ACME REPAIR INC	328 FRONT ST	RCRA NonGen / NLR, FINDS	Lower	471, SE

MAPPED SITES SUMMARY

Target Property Address:
475 BAY STREET
STATEN ISLAND, NY 10301

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft.) DIRECTION
E40	STREET SPILL	BAY STREET/CLINTON S	NY Spills	Higher	490, NNE
E41		BAY ST/CLINTON	NY Spills, NY Hist Spills	Higher	490, NNE
F42	STAPLETON COURT	40 PROSPECT STREET	MANIFEST	Lower	508, South
F43	MTA NYCT - STAPLETON	BAY & PROSPECT STS	RCRA-SQG	Higher	544, South
F44	STAPLETON COURT	551 BAY ST	RCRA-LQG	Higher	548, South
45		61 WILLIAM	NY Spills, NY Hist Spills	Higher	584, WNW
G46	VAN DUZER ST & PROSP	VAN DUZER ST & PROSP	NY Spills, NY Hist Spills	Higher	597, WSW
G47	MOLA MOLIC	337 VAN DUZER STREET	AST	Higher	599, WSW
G48		337 VAN DUZER ST	EDR US Hist Auto Stat	Higher	599, WSW
G49	MOLA MOLIC	337 VAN DUZER STREET	UST	Higher	599, WSW
G50	MOLA MOLIC	337 VAN DUZER STREET	HIST UST	Higher	599, WSW
H51	LOT 37,TAXBLOCK 490	328 PROSPECT STREET	E DESIGNATION	Higher	604, SSW
E52	H&S AUTO SERVICE INC	406 BAY STREET	AST	Higher	618, NNE
E53		406 BAY ST	EDR US Hist Auto Stat	Higher	618, NNE
E54		404 BAY ST	EDR US Hist Auto Stat	Higher	630, NNE
H55	589 PROSPECT AVE.	589 PROSPECT AVE.	NY Spills, NY Hist Spills	Higher	643, SW
H56	304 PROSPECT AVE/GOO	304 PROSPECT AVENUE	LTANKS, HIST LTANKS	Higher	652, SSW
I57	LOT 37,TAXBLOCK 491	346 FRONT STREET	E DESIGNATION	Lower	655, SE
F58	PROSPECT 88 REALTY,	560 BAY STREET	AST	Higher	660, South
F59	EILIN REALTY CORP	560 BAY ST	HIST UST	Higher	660, South
I60		350 FRONT ST	EDR US Hist Auto Stat	Lower	697, SE
E61	DEMA'S AUTO CENTER I	396 BAY STREET	UST	Lower	702, NNE
E62	DEMAS AUTO COLLISION	396 BAY ST	RCRA NonGen / NLR, FINDS, MANIFEST	Lower	702, NNE
E63		396 BAY ST	EDR US Hist Auto Stat	Lower	702, NNE
J64	RITE AID #10535	385 BAY ST	RCRA-CESQG	Lower	780, NNE
J65	RITE AID #10535	385 BAY ST	MANIFEST	Lower	780, NNE
J66		385 BAY ST	EDR US Hist Cleaners	Lower	780, NNE
K67		10 CROSS ST	EDR US Hist Auto Stat	Lower	780, SSE
K68	BELL ATLANTIC NY	UNION PL & BAY ST	RCRA NonGen / NLR	Lower	800, South
J69		380 BAY ST	EDR US Hist Auto Stat	Lower	847, NNE
J70	T&S AUTO INC.	380A BAY STREET	AST	Lower	847, NNE
I71	355 FRONT ST/USN NAV	355 FRONT ST/BOAT LD	LTANKS, HIST LTANKS	Lower	850, SE
I72	355 FRONT ST/NAVAL S	355 FRONT ST/NAVAL S	LTANKS, HIST LTANKS	Lower	850, SE
L73		80 BEACH ST	EDR US Hist Auto Stat	Higher	853, SW
L74		57 BEACH ST	EDR US Hist Auto Stat	Higher	867, SSW
L75		96 BEACH ST	EDR US Hist Cleaners	Higher	871, SW
J76		8 GRANT ST	EDR US Hist Auto Stat	Lower	948, NNE
K77		592 BAY ST	EDR US Hist Cleaners	Lower	951, South
J78		12 GRANT ST	EDR US Hist Auto Stat	Lower	952, NNE

MAPPED SITES SUMMARY

Target Property Address:
475 BAY STREET
STATEN ISLAND, NY 10301

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft.) DIRECTION
M79	S I BANK & TRUST	15 BEACH STREET	AST, HIST AST	Lower	971, South
M80	103 WATER STREET	103 WATER ST	AST	Lower	1058, South
81		148 BEACH ST	EDR US Hist Auto Stat	Higher	1127, WSW
N82	PARCEL P15 - FRONT S		DEL SHWS	Lower	1159, SSE
N83	PARCEL P15 - FRONT S	44 CANAL STREET	SHWS	Lower	1164, SSE
N84		44 CANAL ST	EDR US Hist Auto Stat	Lower	1164, SSE
85	TRINITY LUTHERAN CHU	309 SAINT PAULS AVE	UST, HIST UST	Higher	1229, West
86	GREEN ELECTRONICS SE	92 CANAL ST	RCRA NonGen / NLR	Lower	1238, South
87	STATEN ISLAND REGION	90 GRANT ST (51 PAUL	AST, HIST AST	Higher	1295, NNW
88	RICHMOND DISTRIBUTIO	SAINT JULIAN PL & VA	RCRA-CESQG, FINDS, MANIFEST, MANIFEST	Higher	1311, North
89	STATEN ISLAND TRANSI	293 BAY ST	LTANKS, HIST LTANKS, NY Spills	Higher	1566, NNE
90	ROKICKI RESIDENCE	3 COURT ST	LTANKS, HIST LTANKS	Higher	1702, SW
91	37 MARION AVE	37 MARION AVE	LTANKS, HIST LTANKS	Higher	1708, West
92	CONTAMINATED SOIL	260 BAY ST	HIST LTANKS	Higher	1872, North
93	55 BROWNELL STREET	55 BROWNELL STREET	LTANKS, HIST LTANKS, NY Spills, NY Hist Spills	Higher	1917, South
94	CROMWELL CENTER	PIER 6 - BAY ST/HANN	LTANKS, HIST LTANKS	Lower	2131, NNE
95	2 TOMPKINS AVE/S.I	2 TOMPKINS AVENUE	LTANKS, HIST LTANKS	Higher	2206, SSW
96		80 HARRISON ST	LTANKS, HIST LTANKS, NY Spills	Higher	2318, South
O97	7 PEARL STREET	7 PEARL STREET	LTANKS, HIST LTANKS	Higher	2356, WSW
P98	ROSSVILLE JAIL SITE	60 HUDSON STREET	HSWDS	Higher	2506, SW
O99	92 PEARL STREET	92 PEARL STREET	LTANKS, HIST LTANKS	Higher	2527, WSW
P100	88 GORDON AVENUE	88 GORDON AVENUE	LTANKS, HIST LTANKS	Higher	2565, SW
101	180 VICTORY BLVD	180 VICTORY BLVD	LTANKS, HIST LTANKS, NY Spills	Higher	2587, NNW
102	GULF GASOLINE	149 VICTORY BLVD	HIST LTANKS, NY Spills	Higher	2626, NNW
103	OUR LADY OF GOOD COU	42 AUSTIN PLACE	LTANKS, UST, HIST UST	Higher	2627, West
Q104	BROOKLYN BOROUGH GAS	25 AND 40 WILLOW AVE	EDR MGP	Higher	4149, SSE
Q105	K - CLIFTON MGP - ST	25 & 40 WILLOW AVE	SHWS	Lower	4320, SSE
106	NEW YORK AND RICHMON	WILLOW AND BAY AVE	EDR MGP	Higher	4441, SSE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

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.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site List

CERC-NFRAP: A review of the CERC-NFRAP list, as provided by EDR, and dated 02/05/2013 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NAVAL STATION SAPLET	***355 FRONT STREET***	***ESE 0 - 1/8 (0.050 mi.)***	***C27***	***13***

Federal RCRA generators list

RCRA-LQG: A review of the RCRA-LQG list, as provided by EDR, and dated 02/12/2013 has revealed that there are 2 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
STAPLETON COURT	551 BAY ST	S 0 - 1/8 (0.104 mi.)	F44	17

Lower Elevation	Address	Direction / Distance	Map ID	Page
NEW STAPLETON WATERF	FRONT & WAVE ST	ESE 0 - 1/8 (0.041 mi.)	C22	12

RCRA-SQG: A review of the RCRA-SQG list, as provided by EDR, and dated 02/12/2013 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MTA NYCT - STAPLETON	BAY & PROSPECT STS	S 0 - 1/8 (0.103 mi.)	F43	17

RCRA-CESQG: A review of the RCRA-CESQG list, as provided by EDR, and dated 02/12/2013 has revealed that there are 2 RCRA-CESQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RICHMOND DISTRIBUTIO	***SAINT JULIAN PL & VA***	***N 1/8 - 1/4 (0.248 mi.)***	***88***	***26***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
RITE AID #10535	385 BAY ST	NNE 1/8 - 1/4 (0.148 mi.)	J64	21

State- and tribal - equivalent CERCLIS

SHWS: A review of the SHWS list, as provided by EDR, and dated 02/19/2013 has revealed that there are 2 SHWS sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PARCEL P15 - FRONT S	44 CANAL STREET	SSE 1/8 - 1/4 (0.220 mi.)	N83	25
K - CLIFTON MGP - ST	25 & 40 WILLOW AVE	SSE 1/2 - 1 (0.818 mi.)	Q105	30

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: A review of the SWF/LF list, as provided by EDR, and dated 01/07/2013 has revealed that there are 2 SWF/LF sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
A JOFI'S AUTO BODY I	33 WAVE STREET	SSE 0 - 1/8 (0.013 mi.)	B6	9
THOMAS J. MANZO; INC	320 FRONT ST	SE 0 - 1/8 (0.075 mi.)	D35	15

State and tribal leaking storage tank lists

LTANKS: A review of the LTANKS list, as provided by EDR, and dated 02/19/2013 has revealed that there are 18 LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
29 BALTIC STREET Date Closed: 11/19/1992	***29 BALTIC ST***	***NNW 0 - 1/8 (0.035 mi.)***	***14***	***10***
HOMEPORT SERVICE STA Date Closed: 3/15/2006	***511 BAY ST***	***S 0 - 1/8 (0.036 mi.)***	***A16***	***11***
304 PROSPECT AVE/GOO Date Closed: 3/5/2003	***304 PROSPECT AVENUE***	***SSW 0 - 1/8 (0.123 mi.)***	***H56***	***19***
STATEN ISLAND TRANSI Date Closed: 6/27/2008	***293 BAY ST***	***NNE 1/4 - 1/2 (0.297 mi.)***	***89***	***26***
ROKICKI RESIDENCE Date Closed: 2/4/1998	***3 COURT ST***	***SW 1/4 - 1/2 (0.322 mi.)***	***90***	***26***

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
37 MARION AVE Date Closed: 2/19/2003	***37 MARION AVE***	***W 1/4 - 1/2 (0.323 mi.)***	***91***	***27***
55 BROWNELL STREET Date Closed: 9/5/1995	***55 BROWNELL STREET***	***S 1/4 - 1/2 (0.363 mi.)***	***93***	***27***
2 TOMPKINS AVE/S.I Date Closed: 5/5/2005	***2 TOMPKINS AVENUE***	***SSW 1/4 - 1/2 (0.418 mi.)***	***95***	***28***
Not reported Date Closed: 11/4/1998	***80 HARRISON ST***	***S 1/4 - 1/2 (0.439 mi.)***	***96***	***28***
7 PEARL STREET Date Closed: 12/1/1995	***7 PEARL STREET***	***WSW 1/4 - 1/2 (0.446 mi.)***	***O97***	***28***
92 PEARL STREET Date Closed: 2/28/2003	***92 PEARL STREET***	***WSW 1/4 - 1/2 (0.479 mi.)***	***O99***	***29***
88 GORDON AVENUE Date Closed: 3/15/2006	***88 GORDON AVENUE***	***SW 1/4 - 1/2 (0.486 mi.)***	***P100***	***29***
180 VICTORY BLVD Date Closed: 2/19/1987	***180 VICTORY BLVD***	***NNW 1/4 - 1/2 (0.490 mi.)***	***101***	***29***
OUR LADY OF GOOD COU Date Closed: 2/17/2006	***42 AUSTIN PLACE***	***W 1/4 - 1/2 (0.498 mi.)***	***103***	***30***

Lower Elevation	Address	Direction / Distance	Map ID	Page
355 FRONT STREET Date Closed: 5/18/1993 Date Closed: 12/11/2003	***355 FRONT STREET***	***ESE 0 - 1/8 (0.050 mi.)***	***C31***	***14***
355 FRONT ST/USN NAV Date Closed: 5/26/1992	***355 FRONT ST/BOAT LD***	***SE 1/8 - 1/4 (0.161 mi.)***	***I71***	***22***
355 FRONT ST/NAVAL S Date Closed: 5/19/1992	***355 FRONT ST/NAVAL S***	***SE 1/8 - 1/4 (0.161 mi.)***	***I72***	***23***
CROMWELL CENTER	***PIER 6 - BAY ST/HANN***	***NNE 1/4 - 1/2 (0.404 mi.)***	***94***	***27***

HIST LTANKS: A review of the HIST LTANKS list, as provided by EDR, and dated 01/01/2002 has revealed that there are 19 HIST LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
29 BALTIC STREET Date Closed: 11/19/92	***29 BALTIC ST***	***NNW 0 - 1/8 (0.035 mi.)***	***14***	***10***
HOMEPORT SERVICE STA	***511 BAY ST***	***S 0 - 1/8 (0.036 mi.)***	***A16***	***11***
304 PROSPECT AVE/GOO	***304 PROSPECT AVENUE***	***SSW 0 - 1/8 (0.123 mi.)***	***H56***	***19***
STATEN ISLAND TRANSI	***293 BAY ST***	***NNE 1/4 - 1/2 (0.297 mi.)***	***89***	***26***
ROKICKI RESIDENCE Date Closed: 02/04/98	***3 COURT ST***	***SW 1/4 - 1/2 (0.322 mi.)***	***90***	***26***
37 MARION AVE	***37 MARION AVE***	***W 1/4 - 1/2 (0.323 mi.)***	***91***	***27***
CONTAMINATED SOIL	260 BAY ST	N 1/4 - 1/2 (0.355 mi.)	92	27
55 BROWNELL STREET Date Closed: 09/05/95	***55 BROWNELL STREET***	***S 1/4 - 1/2 (0.363 mi.)***	***93***	***27***
2 TOMPKINS AVE/S.I	***2 TOMPKINS AVENUE***	***SSW 1/4 - 1/2 (0.418 mi.)***	***95***	***28***
Not reported Date Closed: 11/04/98	***80 HARRISON ST***	***S 1/4 - 1/2 (0.439 mi.)***	***96***	***28***

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
7 PEARL STREET Date Closed: 12/01/95	***7 PEARL STREET***	***WSW 1/4 - 1/2 (0.446 mi.)***	***O97***	***28***
92 PEARL STREET	***92 PEARL STREET***	***WSW 1/4 - 1/2 (0.479 mi.)***	***O99***	***29***
88 GORDON AVENUE	***88 GORDON AVENUE***	***SW 1/4 - 1/2 (0.486 mi.)***	***P100***	***29***
180 VICTORY BLVD Date Closed: 02/19/87	***180 VICTORY BLVD***	***NNW 1/4 - 1/2 (0.490 mi.)***	***101***	***29***
GULF GASOLINE	***149 VICTORY BLVD***	***NNW 1/4 - 1/2 (0.497 mi.)***	***102***	***30***

Lower Elevation	Address	Direction / Distance	Map ID	Page
355 FRONT STREET Date Closed: 05/18/93	***355 FRONT STREET***	***ESE 0 - 1/8 (0.050 mi.)***	***C31***	***14***
355 FRONT ST/USN NAV Date Closed: 05/26/92	***355 FRONT ST/BOAT LD***	***SE 1/8 - 1/4 (0.161 mi.)***	***I71***	***22***
355 FRONT ST/NAVAL S Date Closed: 05/19/92	***355 FRONT ST/NAVAL S***	***SE 1/8 - 1/4 (0.161 mi.)***	***I72***	***23***
CROMWELL CENTER	***PIER 6 - BAY ST/HANN***	***NNE 1/4 - 1/2 (0.404 mi.)***	***94***	***27***

State and tribal registered storage tank lists

UST: A review of the UST list, as provided by EDR, and dated 01/02/2013 has revealed that there are 6 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NEW METHOD SCR CO	***465 BAY STREET***	***N 0 - 1/8 (0.007 mi.)***	***A4***	***8***
HOME PORT SER ST INC	***511 BAY STREET***	***S 0 - 1/8 (0.036 mi.)***	***A19***	***11***
MOLA MOLIC	337 VAN DUZER STREET	WSW 0 - 1/8 (0.113 mi.)	G49	18
TRINITY LUTHERAN CHU	***309 SAINT PAULS AVE***	***W 1/8 - 1/4 (0.233 mi.)***	***85***	***25***

Lower Elevation	Address	Direction / Distance	Map ID	Page
STAPLETON FACILITY	355 FRONT STREET	ESE 0 - 1/8 (0.050 mi.)	C28	13
DEMA'S AUTO CENTER I	396 BAY STREET	NNE 1/8 - 1/4 (0.133 mi.)	E61	20

AST: A review of the AST list, as provided by EDR, and dated 01/02/2013 has revealed that there are 9 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MOLA MOLIC	337 VAN DUZER STREET	WSW 0 - 1/8 (0.113 mi.)	G47	18
H&S AUTO SERVICE INC	406 BAY STREET	NNE 0 - 1/8 (0.117 mi.)	E52	19
PROSPECT 88 REALTY,	560 BAY STREET	S 0 - 1/8 (0.125 mi.)	F58	20
STATEN ISLAND REGION	***90 GRANT ST (51 PAUL***	***NNW 1/8 - 1/4 (0.245 mi.)***	***87***	***26***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MARINE COMPANY 9	***305 FRONT STREET***	***E 0 - 1/8 (0.040 mi.)***	***21***	***12***
STAPLETON FACILITY	***355 FRONT STREET***	***ESE 0 - 1/8 (0.050 mi.)***	***C29***	***14***
T&S AUTO INC.	380A BAY STREET	NNE 1/8 - 1/4 (0.160 mi.)	J70	22

Lower Elevation	Address	Direction / Distance	Map ID	Page
S I BANK & TRUST	***15 BEACH STREET***	***S 1/8 - 1/4 (0.184 mi.)***	***M79***	***24***
103 WATER STREET	103 WATER ST	S 1/8 - 1/4 (0.200 mi.)	M80	24

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

DEL SHWS: A review of the DEL SHWS list, as provided by EDR, and dated 02/19/2013 has revealed that there is 1 DEL SHWS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PARCEL P15 - FRONT S		SSE 1/8 - 1/4 (0.220 mi.)	N82	25

Local Lists of Registered Storage Tanks

HIST UST: A review of the HIST UST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 6 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NEW METHOD SCR CO	***465 BAY STREET***	***N 0 - 1/8 (0.007 mi.)***	***A4***	***8***
HOME PORT SER ST INC	***511 BAY STREET***	***S 0 - 1/8 (0.036 mi.)***	***A19***	***11***
MOLA MOLIC	337 VAN DUZER STREET	WSW 0 - 1/8 (0.113 mi.)	G50	18
EILIN REALTY CORP	560 BAY ST	S 0 - 1/8 (0.125 mi.)	F59	20
TRINITY LUTHERAN CHU	***309 SAINT PAULS AVE***	***W 1/8 - 1/4 (0.233 mi.)***	***85***	***25***

Lower Elevation	Address	Direction / Distance	Map ID	Page
STAPLETON FACILITY	***355 FRONT STREET***	***ESE 0 - 1/8 (0.050 mi.)***	***C29***	***14***

Records of Emergency Release Reports

NY Spills: A review of the NY Spills list, as provided by EDR, and dated 02/19/2013 has revealed that there are 10 NY Spills sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BAY ST & WILLIAMS ST Date Closed: 4/6/1993	***BAY ST & WILLIAMS ST***	***WNW 0 - 1/8 (0.028 mi.)***	***A12***	***10***
HOMEPORT SERVICE STA Date Closed: 4/13/1989	***511 BAY ST***	***S 0 - 1/8 (0.036 mi.)***	***A16***	***11***
Not reported Date Closed: 11/3/2003	***73 WAVE ST***	***SW 0 - 1/8 (0.044 mi.)***	***A23***	***12***
STREET SPILL Date Closed: 7/18/2007	BAY STREET/CLINTON S	NNE 0 - 1/8 (0.093 mi.)	E40	16

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported Date Closed: 4/5/2001	***BAY ST/CLINTON***	***NNE 0 - 1/8 (0.093 mi.)***	***E41***	***16***
Not reported Date Closed: 7/14/2003	***61 WILLIAM***	***WNW 0 - 1/8 (0.111 mi.)***	***45***	***17***
VAN DUZER ST & PROSP Date Closed: 11/22/1993	***VAN DUZER ST & PROSP***	***WSW 0 - 1/8 (0.113 mi.)***	***G46***	***17***
589 PROSPECT AVE. Date Closed: 12/28/1993	***589 PROSPECT AVE.***	***SW 0 - 1/8 (0.122 mi.)***	***H55***	***19***

Lower Elevation	Address	Direction / Distance	Map ID	Page
WAVE STREET YARD DOT Date Closed: 10/3/2003 Date Closed: 7/14/2003	***34 WAVE STREET***	***SSE 0 - 1/8 (0.027 mi.)***	***B10***	***9***
355 FRONT STREET Date Closed: 5/1/2000 Date Closed: 12/11/2003	***355 FRONT STREET***	***ESE 0 - 1/8 (0.050 mi.)***	***C31***	***14***

**Additional key fields are available in the Map Findings section*

NY Hist Spills: A review of the NY Hist Spills list, as provided by EDR, and dated 01/01/2002 has revealed that there are 13 NY Hist Spills sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BAY ST & WILLIAMS ST	***BAY ST & WILLIAMS ST***	***WNW 0 - 1/8 (0.028 mi.)***	***A12***	***10***
HOMEPORT SERVICE STA	***511 BAY ST***	***S 0 - 1/8 (0.036 mi.)***	***A16***	***11***
BAY ST & WAVE ST/S.I	BAY STREET / WAVE ST	S 0 - 1/8 (0.036 mi.)	A18	11
Not reported	***73 WAVE ST***	***SW 0 - 1/8 (0.044 mi.)***	***A23***	***12***
Not reported	***BAY ST/CLINTON***	***NNE 0 - 1/8 (0.093 mi.)***	***E41***	***16***
Not reported	***61 WILLIAM***	***WNW 0 - 1/8 (0.111 mi.)***	***45***	***17***
VAN DUZER ST & PROSP	***VAN DUZER ST & PROSP***	***WSW 0 - 1/8 (0.113 mi.)***	***G46***	***17***
589 PROSPECT AVE.	***589 PROSPECT AVE.***	***SW 0 - 1/8 (0.122 mi.)***	***H55***	***19***

Lower Elevation	Address	Direction / Distance	Map ID	Page
WAVE STREET YARD DOT	***34 WAVE STREET***	***SSE 0 - 1/8 (0.027 mi.)***	***B10***	***9***
34 WAVE STREET	34 WAVE STREET	SSE 0 - 1/8 (0.027 mi.)	B11	10
STATEN ISLAND HOME P	355 FRONT ST	ESE 0 - 1/8 (0.050 mi.)	C26	13
355 FRONT ST/US NAVY	355 FRONT ST	ESE 0 - 1/8 (0.050 mi.)	C30	14
355 FRONT STREET	***355 FRONT STREET***	***ESE 0 - 1/8 (0.050 mi.)***	***C31***	***14***

Other Ascertainable Records

RCRA NonGen / NLR: A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 02/12/2013 has revealed that there are 10 RCRA NonGen / NLR sites within approximately 0.25 miles of the target

property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HARBOR ISLE CHEVROLE	***478 BAY ST***	***SSW 0 - 1/8 (0.002 mi.)***	***A1***	***8***
NEW METHOD SERVICE C	***465 BAY STRE***	***N 0 - 1/8 (0.007 mi.)***	***A3***	***8***
SERVICE STATION	***511-517 BAY ST***	***S 0 - 1/8 (0.036 mi.)***	***A17***	***11***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
NYCDOT	***34 WAVE ST***	***SSE 0 - 1/8 (0.027 mi.)***	***B9***	***9***
NAVSTA N Y FORT WADS	***FORT WADSWORTH***	***ESE 0 - 1/8 (0.049 mi.)***	***C25***	***13***
NAVAL STATION SAPLET	***355 FRONT STREET***	***ESE 0 - 1/8 (0.050 mi.)***	***C27***	***13***
ACME REPAIR INC	***328 FRONT ST***	***SE 0 - 1/8 (0.089 mi.)***	***D39***	***16***
DEMAS AUTO COLLISION	***396 BAY ST***	***NNE 1/8 - 1/4 (0.133 mi.)***	***E62***	***21***
BELL ATLANTIC NY	UNION PL & BAY ST	S 1/8 - 1/4 (0.152 mi.)	K68	22
GREEN ELECTRONICS SE	92 CANAL ST	S 1/8 - 1/4 (0.234 mi.)	86	25

HSWDS: A review of the HSWDS list, as provided by EDR, and dated 01/01/2003 has revealed that there is 1 HSWDS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ROSSVILLE JAIL SITE	60 HUDSON STREET	SW 1/4 - 1/2 (0.475 mi.)	P98	29

MANIFEST: A review of the MANIFEST list, as provided by EDR, and dated 02/01/2013 has revealed that there are 9 MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HARBOR ISLE CHEVROLE	***478 BAY ST***	***SSW 0 - 1/8 (0.002 mi.)***	***A1***	***8***
NEW METHOD SCR CO	***465 BAY STREET***	***N 0 - 1/8 (0.007 mi.)***	***A4***	***8***
HOMEPORT SERVICE STA	***511 BAY ST***	***S 0 - 1/8 (0.036 mi.)***	***A16***	***11***
RICHMOND DISTRIBUTIO	***SAINT JULIAN PL & VA***	***N 1/8 - 1/4 (0.248 mi.)***	***88***	***26***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
NAVSTA N Y FORT WADS	***FORT WADSWORTH***	***ESE 0 - 1/8 (0.049 mi.)***	***C25***	***13***
NAVAL STATION SAPLET	***355 FRONT STREET***	***ESE 0 - 1/8 (0.050 mi.)***	***C27***	***13***
STAPLETON COURT	40 PROSPECT STREET	S 0 - 1/8 (0.096 mi.)	F42	16
DEMAS AUTO COLLISION	***396 BAY ST***	***NNE 1/8 - 1/4 (0.133 mi.)***	***E62***	***21***
RITE AID #10535	385 BAY ST	NNE 1/8 - 1/4 (0.148 mi.)	J65	21

E DESIGNATION: A review of the E DESIGNATION list, as provided by EDR, and dated 12/10/2012 has revealed that there are 6 E DESIGNATION sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LOT 37,TAXBLOCK 490	328 PROSPECT STREET	SSW 0 - 1/8 (0.114 mi.)	H51	18
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
LOT 25,TAXBLOCK 489	308 FRONT STREET	SE 0 - 1/8 (0.056 mi.)	C32	15

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOT 45,TAXBLOCK 490	15 PROSPECT STREET	SSE 0 - 1/8 (0.084 mi.)	D36	15
LOT 29,TAXBLOCK 491	14 PROSPECT STREET	SSE 0 - 1/8 (0.086 mi.)	D37	15
LOT 32,TAXBLOCK 491	10 PROSPECT STREET	SE 0 - 1/8 (0.087 mi.)	D38	16
LOT 37,TAXBLOCK 491	346 FRONT STREET	SE 0 - 1/8 (0.124 mi.)	I57	20

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: 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.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BROOKLYN BOROUGH GAS	25 AND 40 WILLOW AVE	SSE 1/2 - 1 (0.786 mi.)	Q104	30
NEW YORK AND RICHMON	WILLOW AND BAY AVE	SSE 1/2 - 1 (0.841 mi.)	106	31

EDR US Hist Auto Stat: A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 22 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	490 BAY ST	SSW 0 - 1/8 (0.013 mi.)	A5	8
Not reported	15 WILLIAM ST	NW 0 - 1/8 (0.032 mi.)	A13	10
Not reported	511 BAY ST	S 0 - 1/8 (0.036 mi.)	A15	10
Not reported	510 BAY ST	S 0 - 1/8 (0.037 mi.)	A20	12
Not reported	70 WAVE ST	SSW 0 - 1/8 (0.044 mi.)	A24	13
Not reported	337 VAN DUZER ST	WSW 0 - 1/8 (0.113 mi.)	G48	18
Not reported	406 BAY ST	NNE 0 - 1/8 (0.117 mi.)	E53	19
Not reported	404 BAY ST	NNE 0 - 1/8 (0.119 mi.)	E54	19
Not reported	80 BEACH ST	SW 1/8 - 1/4 (0.162 mi.)	L73	23
Not reported	57 BEACH ST	SSW 1/8 - 1/4 (0.164 mi.)	L74	23
Not reported	148 BEACH ST	WSW 1/8 - 1/4 (0.213 mi.)	81	24

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	31 WAVE ST	SSE 0 - 1/8 (0.020 mi.)	B7	9
Not reported	33 WAVE ST	SSE 0 - 1/8 (0.022 mi.)	B8	9
Not reported	308 FRONT ST	SE 0 - 1/8 (0.056 mi.)	C33	15
Not reported	27 SANDS ST	SSE 0 - 1/8 (0.058 mi.)	B34	15
Not reported	350 FRONT ST	SE 1/8 - 1/4 (0.132 mi.)	I60	20
Not reported	396 BAY ST	NNE 1/8 - 1/4 (0.133 mi.)	E63	21
Not reported	10 CROSS ST	SSE 1/8 - 1/4 (0.148 mi.)	K67	22
Not reported	380 BAY ST	NNE 1/8 - 1/4 (0.160 mi.)	J69	22
Not reported	8 GRANT ST	NNE 1/8 - 1/4 (0.180 mi.)	J76	23
Not reported	12 GRANT ST	NNE 1/8 - 1/4 (0.180 mi.)	J78	24
Not reported	44 CANAL ST	SSE 1/8 - 1/4 (0.220 mi.)	N84	25

EXECUTIVE SUMMARY

EDR US Hist Cleaners: A review of the EDR US Hist Cleaners list, as provided by EDR, has revealed that there are 4 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	465 BAY ST	N 0 - 1/8 (0.007 mi.)	A2	8
Not reported	96 BEACH ST	SW 1/8 - 1/4 (0.165 mi.)	L75	23

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	385 BAY ST	NNE 1/8 - 1/4 (0.148 mi.)	J66	21
Not reported	592 BAY ST	S 1/8 - 1/4 (0.180 mi.)	K77	24

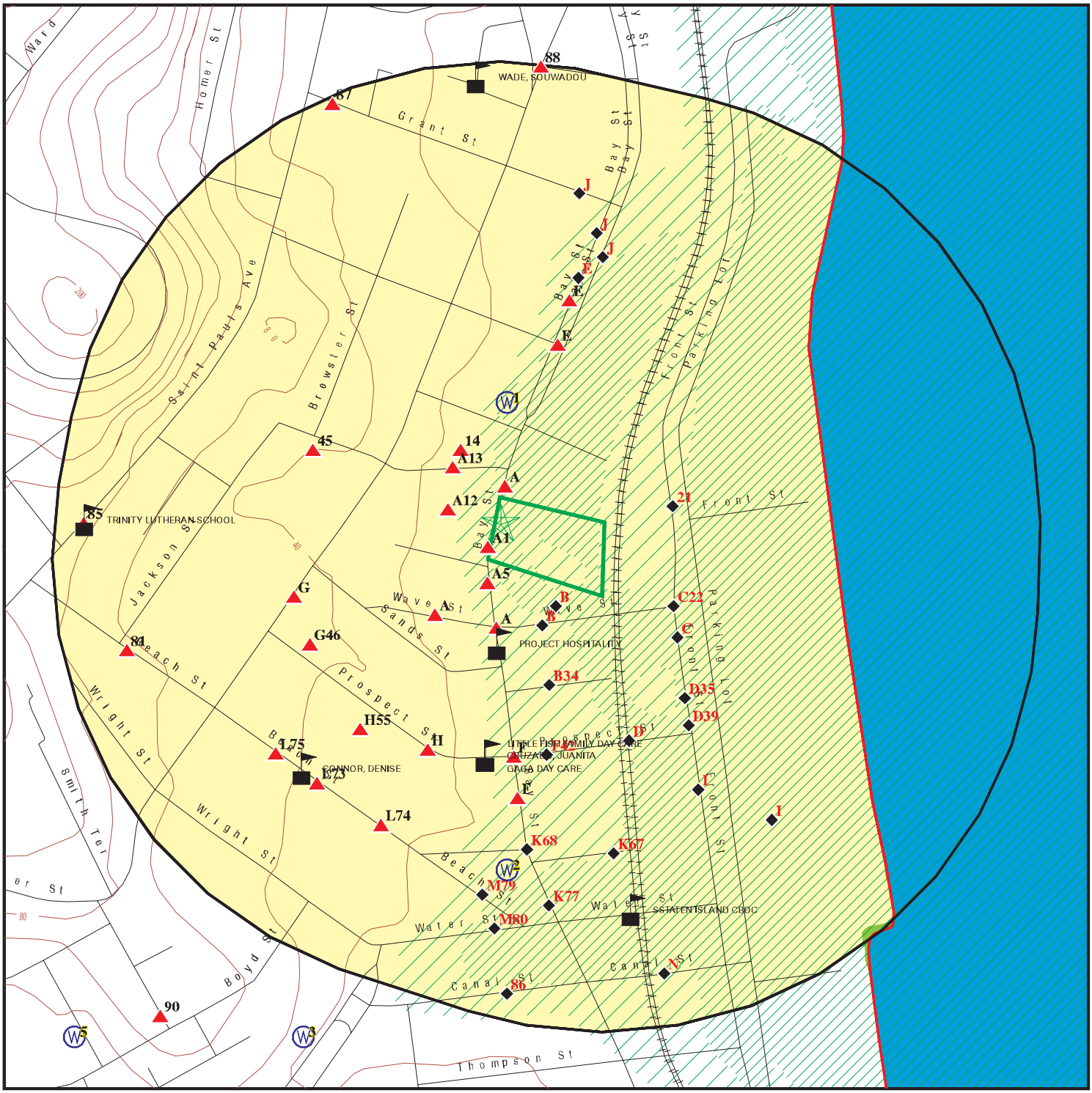
Count: 20 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
STATEN ISLAND	1000483440	BARGE 210 AND BERMAN NATHAN	NO FIXED ADDRESS	10301	CERCLIS,FINDS,PRP
STATEN ISLAND	1004761601	NYSDOT REG 2 FIELD OFFICE	RTE 440N		FINDS,MANIFEST,RCRA-NLR
STATEN ISLAND	1007205637	BELL ATLANTIC-NY	BAY/CONGRESS STS	00000	RCRA-NLR
STATEN ISLAND	1007206388	CONSOLIDATED EDISON	RT 140 & VICTORY BLVD		RCRA-NLR,MANIFEST
STATEN ISLAND	1007208069	CONSOLIDATED EDISON	MH9011 RICHMOND TERR & BAY ST		RCRA-NLR,MANIFEST
STATEN ISLAND	1007252091	BELL ATLANTIC-NY	BAY/CONGRESS STS		FINDS,MANIFEST
STATEN ISLAND	1007797745	NASER PROPERTY - BLOCK 2892 - LOT	325 & 327 HANOVER AVENUE	10304	FINDS
STATEN ISLAND	1008195717	CONSOLIDATED EDISON	RICHMOND TERR & VAN ST MH82	10301	RCRA-NLR,MANIFEST
STATEN ISLAND	1009234567	NYSDEC	CLAY PIT POND STATE PARK		MANIFEST
STATEN ISLAND	1009234701	L & L PAINTINT	OUTERBRIDGE CROSSING & RT 440		MANIFEST
STATEN ISLAND	1009234966	COASTAL PIPELINE @ PORT IVORY	RICHMOND TER & KILL VAN KULL		MANIFEST
STATEN ISLAND	1009241593	CONSOLIDATED EDISON	NEW LANE BAY STREET MH0825	10301	MANIFEST
STATEN ISLAND	1014919790	MTA NYCT - TOMPKINSVILLE STATION -	BAY ST & VICTORY BLVD	10301	RCRA-SQG
STATEN ISLAND	1015731682	BROOKFIELD AVENUE LANDFILL	ARTHUR KILL ROAD	10301	CERCLIS,RCRA-NLR
STATEN ISLAND	S101341104	KILL VAN KULL	KILL VAN KULL		SPILLS,LTANKS,HIST LTANKS,HIST SPILLS
STATEN ISLAND	S102141169	LOWER NY BAY	LOWER NEW YORK BAY		SPILLS,HIST SPILLS
STATEN ISLAND	S102141232	NEWARK BAY/WEST BAYONNE	NEWARK BAY/WEST BAYONNE		SPILLS,HIST SPILLS
STATEN ISLAND	S102141257	RARITAN BAY/BUOY MARK #14	RARITAN BAY/BUOY MARK #14		SPILLS,HIST SPILLS
STATEN ISLAND	S102143451	RT 440	ROUTE 440		SPILLS,HIST SPILLS
STATEN ISLAND	S106384661	OUTERBRIDEG CROSSING	ROUTE 440 NORTH		SPILLS

OVERVIEW MAP - 3568702.2s


Kill Van Kull
Kill Van Kull
Jersey St
Victory Blvd
Vanderbilt Ave
Tompkins Ave
Bay St
Bay St
Bay St

DETAIL MAP - 3568702.2s



- 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
- 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: BFC Parking Lot	CLIENT: URS Corporation
ADDRESS: 475 Bay Street Staten Island NY 10301	CONTACT: Bob Wolff
LAT/LONG: 40.6305 / 74.0766	INQUIRY #: 3568702.2s DATE: April 05, 2013 1:52 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	0	NR	0
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		1	0	0	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
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	0	NR	NR	NR	2
RCRA-SQG	0.250		1	0	NR	NR	NR	1
RCRA-CESQG	0.250		0	2	NR	NR	NR	2
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								
SHWS	1.000		0	1	0	1	NR	2
VAPOR REOPENED	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		2	0	0	NR	NR	2
State and tribal leaking storage tank lists								
LTANKS	0.500		4	2	12	NR	NR	18
HIST LTANKS	0.500		4	2	13	NR	NR	19
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								
TANKS	0.250		0	0	NR	NR	NR	0
UST	0.250		4	2	NR	NR	NR	6
CBS UST	0.250		0	0	NR	NR	NR	0
MOSF UST	0.500		0	0	0	NR	NR	0
AST	0.250		5	4	NR	NR	NR	9
CBS AST	0.250		0	0	NR	NR	NR	0
MOSF AST	0.500		0	0	0	NR	NR	0
MOSF	0.500		0	0	0	NR	NR	0
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								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
RES DECL	0.125		0	NR	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
ERP	0.500		0	0	0	NR	NR	0
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
SWTIRE	0.500		0	0	0	NR	NR	0
SWRCY	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
DEL SHWS	1.000		0	1	0	0	NR	1
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
HIST UST	0.250		5	1	NR	NR	NR	6
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
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		10	NR	NR	NR	NR	10
NY Hist Spills	0.125		13	NR	NR	NR	NR	13
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		7	3	NR	NR	NR	10
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
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
HSWDS	0.500		0	0	1	NR	NR	1
UIC	TP		NR	NR	NR	NR	NR	0
MANIFEST	0.250		6	3	NR	NR	NR	9
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
SPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
E DESIGNATION	0.125		6	NR	NR	NR	NR	6
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
PRP	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
US AIRS	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

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
EDR US Hist Auto Stat	0.250		12	10	NR	NR	NR	22
EDR US Hist Cleaners	0.250		1	3	NR	NR	NR	4

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
SSW
< 1/8
0.002 mi.
8 ft.

Relative:
Higher

HARBOR ISLE CHEVROLET
478 BAY ST
STATEN ISLAND, NY 10304

RCRA NonGen / NLR **1000164268**
FINDS **NYD107649618**
MANIFEST

Click here for full text details

RCRA NonGen / NLR
EPA Id: NYD107649618

A2
North
< 1/8
0.007 mi.
37 ft.

Relative:
Higher

465 BAY ST
STATEN ISLAND, NY 10304

EDR US Hist Cleaners **1015064455**
N/A

Click here for full text details

A3
North
< 1/8
0.007 mi.
37 ft.

Relative:
Higher

NEW METHOD SERVICE CO INC
465 BAY STREET
STATEN ISLAND, NY 10304

RCRA NonGen / NLR **1000123997**
FINDS **NYD012466926**

Click here for full text details

RCRA NonGen / NLR
EPA Id: NYD012466926

A4
North
< 1/8
0.007 mi.
37 ft.

Relative:
Higher

NEW METHOD SCR CO
465 BAY STREET
STATEN ISLAND, NY 10304

UST **U003644446**
HIST UST **N/A**
MANIFEST

Click here for full text details

UST
Id/Status:: 2-602833 / Unregulated
Id/Status:: 2-602833
Id/Status:: 2-277657

HIST UST
PBS Number: 2-277657

A5
SSW
< 1/8
0.013 mi.
68 ft.

Relative:
Higher

490 BAY ST
STATEN ISLAND, NY 10304

EDR US Hist Auto Stat **1015517220**
N/A

Click here for full text details

B6
SSE
< 1/8
0.013 mi.
71 ft.

Relative:
Lower

A JOFI'S AUTO BODY INC
33 WAVE STREET
STATEN ISLAND, NY 10304

Click here for full text details

SWF/LF **S108145608**
N/A

B7
SSE
< 1/8
0.020 mi.
105 ft.

Relative:
Lower

31 WAVE ST
STATEN ISLAND, NY 10304

Click here for full text details

EDR US Hist Auto Stat **1015411850**
N/A

B8
SSE
< 1/8
0.022 mi.
114 ft.

Relative:
Lower

33 WAVE ST
STATEN ISLAND, NY 10304

Click here for full text details

EDR US Hist Auto Stat **1015429268**
N/A

B9
SSE
< 1/8
0.027 mi.
140 ft.

Relative:
Lower

NYCDOT
34 WAVE ST
STATEN ISLAND, NY 10304

Click here for full text details

RCRA NonGen / NLR
EPA Id: NYR000015370

RCRA NonGen / NLR **1001079830**
FINDS **NYR000015370**

B10
SSE
< 1/8
0.027 mi.
140 ft.

Relative:
Lower

WAVE STREET YARD DOT -DDC
34 WAVE STREET
STATEN ISLAND, NY

Click here for full text details

NY Spills
Spill Number/Closed Date: 9611411 / 7/14/2003
Spill Number/Closed Date: 9508968 / 10/3/2003

NY Hist Spills
Spill Number/Closed Date: 9508968 / Not Closed

NY Spills **S103560748**
NY Hist Spills **N/A**

B11
SSE
< 1/8
0.027 mi.
140 ft.

Relative:
Lower

34 WAVE STREET
34 WAVE STREET
STATEN ISLAND, NY

Click here for full text details

NY Hist Spills
Spill Number/Closed Date: 9611411 / Not Closed

NY Hist Spills **S102235140**
N/A

A12
WNW
< 1/8
0.028 mi.
148 ft.

Relative:
Higher

BAY ST & WILLIAMS ST
BAY ST & WILLIAMS ST
STATEN ISLAND, NY

Click here for full text details

NY Spills
Spill Number/Closed Date: 9300284 / 4/6/1993

NY Hist Spills
Spill Number/Closed Date: 9300284 / 04/06/93

NY Spills **S102146357**
NY Hist Spills **N/A**

A13
NW
< 1/8
0.032 mi.
169 ft.

Relative:
Higher

15 WILLIAM ST
STATEN ISLAND, NY 10304

Click here for full text details

EDR US Hist Auto Stat **1015236273**
N/A

14
NNW
< 1/8
0.035 mi.
187 ft.

Relative:
Higher

29 BALTIC STREET
29 BALTIC ST
NYC, NY

Click here for full text details

LTANKS
Spill Number/Closed Date: 8804051 / 11/19/1992

HIST LTANKS
Spill Number/Closed Date: 8804051 / 11/19/92

LTANKS **S100145185**
HIST LTANKS **N/A**

A15
South
< 1/8
0.036 mi.
189 ft.

Relative:
Higher

511 BAY ST
STATEN ISLAND, NY 10304

Click here for full text details

EDR US Hist Auto Stat **1015531555**
N/A

A16
South
< 1/8
0.036 mi.
189 ft.

Relative:
Higher

HOMEPORT SERVICE STATION
511 BAY ST
STATEN ISLAND, NY

LTANKS **S103037931**
HIST LTANKS **N/A**
MANIFEST
NY Spills
NY Hist Spills

Click here for full text details

LTANKS

Spill Number/Closed Date: 9713791 / 3/15/2006
Spill Number/Closed Date: 0709111 / Not Closed

HIST LTANKS

Spill Number/Closed Date: 9713791 / Not Closed

NY Spills

Spill Number/Closed Date: 8905762 / Not Closed
Spill Number/Closed Date: 8900426 / 4/13/1989

NY Hist Spills

Spill Number/Closed Date: 8900426 / 04/13/89

A17
South
< 1/8
0.036 mi.
189 ft.

Relative:
Higher

SERVICE STATION
511-517 BAY ST
STATEN ISLAND, NY 10304

RCRA NonGen / NLR **1000432469**
FINDS **NYD000702571**

Click here for full text details

RCRA NonGen / NLR

EPA Id: NYD000702571

A18
South
< 1/8
0.036 mi.
189 ft.

Relative:
Higher

BAY ST & WAVE ST/S.I/GULF
BAY STREET / WAVE STREET
NEW YORK CITY, NY

NY Hist Spills **S103560310**
N/A

Click here for full text details

NY Hist Spills

Spill Number/Closed Date: 8905762 / Not Closed

A19
South
< 1/8
0.036 mi.
189 ft.

Relative:
Higher

HOME PORT SER ST INC.
511 BAY STREET
STATEN ISLAND, NY 10304

UST **U001840815**
HIST UST **N/A**

Click here for full text details

UST

Id/Status:: 2-476692 / Unregulated
Id/Status:: 2-476692

HIST UST

HOME PORT SER ST INC. (Continued) **U001840815**

PBS Number: 2-476692

A20
South
< 1/8
0.037 mi.
193 ft.

Relative:
Higher

510 BAY ST
STATEN ISLAND, NY 10304

EDR US Hist Auto Stat **1015530470**
N/A

Click here for full text details

21
East
< 1/8
0.040 mi.
212 ft.

Relative:
Lower

MARINE COMPANY 9
305 FRONT STREET
STATEN ISLAND, NY 10304

AST **S107782692**
HIST AST **N/A**

Click here for full text details

AST
Facility Id: 2-600581

HIST AST
PBS Number: 2-600581

C22
ESE
< 1/8
0.041 mi.
218 ft.

Relative:
Lower

NEW STAPLETON WATERFRONT
FRONT & WAVE ST
STATEN ISLAND, NY 10304

RCRA-LQG **1014958328**
NYR000195768

Click here for full text details

RCRA-LQG
EPA Id: NYR000195768

A23
SW
< 1/8
0.044 mi.
232 ft.

Relative:
Higher

73 WAVE ST
STATEN ISLAND, NY

NY Spills **S104648173**
NY Hist Spills **N/A**

Click here for full text details

NY Spills
Spill Number/Closed Date: 9810339 / 11/3/2003

NY Hist Spills
Spill Number/Closed Date: 9810339 / Not Closed

A24
SSW
< 1/8
0.044 mi.
232 ft.

Relative:
Higher

70 WAVE ST
STATEN ISLAND, NY 10304

Click here for full text details

EDR US Hist Auto Stat

1015604387
N/A

C25
ESE
< 1/8
0.049 mi.
261 ft.

Relative:
Lower

NAVSTA N Y FORT WADSWORTH
FORT WADSWORTH
STATEN ISLAND, NY 10305

Click here for full text details

RCRA NonGen / NLR
EPA Id: NY2170084485

RCRA NonGen / NLR
PADS
MANIFEST

1000387480
NY2170084485

C26
ESE
< 1/8
0.050 mi.
266 ft.

Relative:
Lower

STATEN ISLAND HOME PORT
355 FRONT ST
STATEN ISLAND, NY

Click here for full text details

NY Hist Spills
Spill Number/Closed Date: 0101067 / Not Closed

NY Hist Spills

S105056928
N/A

C27
ESE
< 1/8
0.050 mi.
266 ft.

Relative:
Lower

NAVAL STATION SAPLETON
355 FRONT STREET
STATEN ISLAND, NY 10305

Click here for full text details

CERC-NFRAP
EPA Id: NYD982277295

RCRA NonGen / NLR
EPA Id: NYD982277295

CERC-NFRAP
RCRA NonGen / NLR
FINDS
MANIFEST

1000148328
NYD982277295

C28
ESE
< 1/8
0.050 mi.
266 ft.

Relative:
Lower

STAPLETON FACILITY
355 FRONT STREET
STATEN ISLAND, NY 10304

Click here for full text details

UST
Id/Status:: 2-341983 / Unregulated
Id/Status:: 2-341983

UST

U004064446
N/A

C29
ESE
< 1/8
0.050 mi.
266 ft.

Relative:
Lower

STAPLETON FACILITY
355 FRONT STREET
STATEN ISLAND, NY 10304

HIST UST
AST
HIST AST

U003074680
N/A

Click here for full text details

HIST UST
PBS Number: 2-341983

AST
Facility Id: 2-341983

HIST AST
PBS Number: 2-341983

C30
ESE
< 1/8
0.050 mi.
266 ft.

Relative:
Lower

355 FRONT ST/US NAVY
355 FRONT ST
SI, NY

NY Hist Spills

S102142453
N/A

Click here for full text details

NY Hist Spills
Spill Number/Closed Date: 9109976 / 12/19/91

C31
ESE
< 1/8
0.050 mi.
266 ft.

Relative:
Lower

355 FRONT STREET
355 FRONT STREET
STATEN ISLAND, NY

LTANKS
HIST LTANKS
NY Spills
NY Hist Spills

S102143298
N/A

Click here for full text details

LTANKS
Spill Number/Closed Date: 9302210 / 5/18/1993
Spill Number/Closed Date: 0230022 / 12/11/2003

HIST LTANKS
Spill Number/Closed Date: 9302210 / 05/18/93

NY Spills
Spill Number/Closed Date: 9207473 / 9/28/1992
Spill Number/Closed Date: 1107850 / 11/3/2011

NY Hist Spills
Spill Number/Closed Date: 9109417 / 12/04/91
Spill Number/Closed Date: 9207473 / 09/28/92
Spill Number/Closed Date: 9305703 / 08/09/93
Spill Number/Closed Date: 9305403 / 08/01/93

C32
SE
< 1/8
0.056 mi.
298 ft.

Relative:
Lower

LOT 25,TAXBLOCK 489
308 FRONT STREET
STATEN ISLAND, NY 10304

Click here for full text details

E DESIGNATION

S109318126
N/A

C33
SE
< 1/8
0.056 mi.
298 ft.

Relative:
Lower

308 FRONT ST
STATEN ISLAND, NY 10304

Click here for full text details

EDR US Hist Auto Stat

1015410054
N/A

B34
SSE
< 1/8
0.058 mi.
305 ft.

Relative:
Lower

27 SANDS ST
STATEN ISLAND, NY 10304

Click here for full text details

EDR US Hist Auto Stat

1015378188
N/A

D35
SE
< 1/8
0.075 mi.
398 ft.

Relative:
Lower

THOMAS J. MANZO; INC
320 FRONT ST
STATEN ISLAND, NY 10304

Click here for full text details

SWF/LF

S105841807
N/A

D36
SSE
< 1/8
0.084 mi.
445 ft.

Relative:
Lower

LOT 45,TAXBLOCK 490
15 PROSPECT STREET
STATEN ISLAND, NY 10304

Click here for full text details

E DESIGNATION

S109318137
N/A

D37
SSE
< 1/8
0.086 mi.
454 ft.

Relative:
Lower

LOT 29,TAXBLOCK 491
14 PROSPECT STREET
STATEN ISLAND, NY 10304

Click here for full text details

E DESIGNATION

S109318128
N/A

D38
SE
< 1/8
0.087 mi.
460 ft.

Relative:
Lower

LOT 32,TAXBLOCK 491
10 PROSPECT STREET
STATEN ISLAND, NY 10304

Click here for full text details

E DESIGNATION **S109318132**
N/A

D39
SE
< 1/8
0.089 mi.
471 ft.

Relative:
Lower

ACME REPAIR INC
328 FRONT ST
STATEN ISLAND, NY 10309

Click here for full text details

RCRA NonGen / NLR
EPA Id: NYR000003715

RCRA NonGen / NLR **1000990412**
FINDS **NYR000003715**

E40
NNE
< 1/8
0.093 mi.
490 ft.

Relative:
Higher

STREET SPILL
BAY STREET/CLINTON STREET
STATEN ISLAND, NY

Click here for full text details

NY Spills
Spill Number/Closed Date: 0703857 / 7/18/2007

NY Spills **S108638707**
N/A

E41
NNE
< 1/8
0.093 mi.
490 ft.

Relative:
Higher

BAY ST/CLINTON
STATEN ISLAND, NY

Click here for full text details

NY Spills
Spill Number/Closed Date: 0009431 / 4/5/2001

NY Hist Spills
Spill Number/Closed Date: 0009431 / 04/05/01

NY Spills **S104879593**
NY Hist Spills **N/A**

F42
South
< 1/8
0.096 mi.
508 ft.

Relative:
Lower

STAPLETON COURT
40 PROSPECT STREET
STATEN ISLAND, NY 10304

Click here for full text details

MANIFEST **S111314355**
N/A

F43
South
< 1/8
0.103 mi.
544 ft.

Relative:
Higher

MTA NYCT - STAPLETON STATION -SIRT
BAY & PROSPECT STS
STATEN ISLAND, NY 10304

Click here for full text details

RCRA-SQG
EPA Id: NYR000150979

Database(s): RCRA-SQG
EDR ID Number: 1010566448
EPA ID Number: NYR000150979

F44
South
< 1/8
0.104 mi.
548 ft.

Relative:
Higher

STAPLETON COURT
551 BAY ST
STATEN ISLAND, NY 10304

Click here for full text details

RCRA-LQG
EPA Id: NYR000176420

Database(s): RCRA-LQG
EDR ID Number: 1014399553
EPA ID Number: NYR000176420

45
WNW
< 1/8
0.111 mi.
584 ft.

Relative:
Higher

61 WILLIAM
STATEN ISLAND, NY

Click here for full text details

NY Spills
Spill Number/Closed Date: 9411920 / 7/14/2003

NY Hist Spills
Spill Number/Closed Date: 9411920 / Not Closed

Database(s): NY Spills, NY Hist Spills
EDR ID Number: S102149134
EPA ID Number: N/A

G46
WSW
< 1/8
0.113 mi.
597 ft.

Relative:
Higher

VAN DUZER ST & PROSPECT S
VAN DUZER ST & PROSPECT S
STATEN ISLAND, NY

Click here for full text details

NY Spills
Spill Number/Closed Date: 9310127 / 11/22/1993

NY Hist Spills
Spill Number/Closed Date: 9310127 / 11/22/93

Database(s): NY Spills, NY Hist Spills
EDR ID Number: S102147328
EPA ID Number: N/A

G47
WSW
< 1/8
0.113 mi.
599 ft.

Relative:
Higher

MOLA MOLIC — **AST** — **A100138985**
337 VAN DUZER STREET — **N/A**
STATEN ISLAND, NY 10304

Click here for full text details

AST
Facility Id: 2-159166

G48
WSW
< 1/8
0.113 mi.
599 ft.

Relative:
Higher

337 VAN DUZER ST — **EDR US Hist Auto Stat** — **1015434610**
STATEN ISLAND, NY 10304 — **N/A**

Click here for full text details

G49
WSW
< 1/8
0.113 mi.
599 ft.

Relative:
Higher

MOLA MOLIC — **UST** — **U004076802**
337 VAN DUZER STREET — **N/A**
STATEN ISLAND, NY 10304

Click here for full text details

UST
Id/Status:: 2-159166 / Unregulated
Id/Status:: 2-159166

G50
WSW
< 1/8
0.113 mi.
599 ft.

Relative:
Higher

MOLA MOLIC — **HIST UST** — **U001836783**
337 VAN DUZER STREET — **N/A**
STATEN ISLAND, NY 10304

Click here for full text details

HIST UST
PBS Number: 2-159166

H51
SSW
< 1/8
0.114 mi.
604 ft.

Relative:
Higher

LOT 37,TAXBLOCK 490 — **E DESIGNATION** — **S109318133**
328 PROSPECT STREET — **N/A**
STATEN ISLAND, NY 10304

Click here for full text details

E52
NNE
< 1/8
0.117 mi.
618 ft.

Relative:
Higher

H&S AUTO SERVICE INC.
406 BAY STREET
STATEN ISLAND, NY 10301

AST **A100320234**
N/A

Click here for full text details

AST
Facility Id: 2-610804

E53
NNE
< 1/8
0.117 mi.
618 ft.

Relative:
Higher

406 BAY ST
STATEN ISLAND, NY 10301

EDR US Hist Auto Stat **1015475356**
N/A

Click here for full text details

E54
NNE
< 1/8
0.119 mi.
630 ft.

Relative:
Higher

404 BAY ST
STATEN ISLAND, NY 10301

EDR US Hist Auto Stat **1015473696**
N/A

Click here for full text details

H55
SW
< 1/8
0.122 mi.
643 ft.

Relative:
Higher

589 PROSPECT AVE.
589 PROSPECT AVE.
NYC, NY

NY Spills **S102147479**
NY Hist Spills **N/A**

Click here for full text details

NY Spills
Spill Number/Closed Date: 9311563 / 12/28/1993

NY Hist Spills
Spill Number/Closed Date: 9311563 / 12/28/93

H56
SSW
< 1/8
0.123 mi.
652 ft.

Relative:
Higher

304 PROSPECT AVE/GOOD HUE
304 PROSPECT AVENUE
NEW YORK CITY, NY

LTANKS **S100167639**
HIST LTANKS **N/A**

Click here for full text details

LTANKS
Spill Number/Closed Date: 8809222 / 3/5/2003

HIST LTANKS
Spill Number/Closed Date: 8809222 / Not Closed

I57
SE
< 1/8
0.124 mi.
655 ft.

Relative:
Lower

LOT 37,TAXBLOCK 491 — **E DESIGNATION** — **S109318134**
346 FRONT STREET — **N/A**
STATEN ISLAND, NY 10304

Click here for full text details

F58
South
< 1/8
0.125 mi.
660 ft.

Relative:
Higher

PROSPECT 88 REALTY, LLC — **AST** — **A100300624**
560 BAY STREET — **N/A**
STATEN ISLAND, NY 10304

Click here for full text details

AST
Facility Id: 2-111600

F59
South
< 1/8
0.125 mi.
660 ft.

Relative:
Higher

EILIN REALTY CORP — **HIST UST** — **U000397991**
560 BAY ST — **N/A**
STATEN ISLAND, NY 10304

Click here for full text details

HIST UST
PBS Number: 2-111600

I60
SE
1/8-1/4
0.132 mi.
697 ft.

Relative:
Lower

EDR US Hist Auto Stat — **1015442185**
350 FRONT ST — **N/A**
STATEN ISLAND, NY 10304

Click here for full text details

E61
NNE
1/8-1/4
0.133 mi.
702 ft.

Relative:
Lower

DEMA'S AUTO CENTER INC. — **UST** — **U004129094**
396 BAY STREET — **N/A**
STATEN ISLAND, NY 10301

Click here for full text details

UST
Id/Status:: 2-610997 / Active
Id/Status:: 2-610997

E62
NNE
1/8-1/4
0.133 mi.
702 ft.

Relative:
Lower

DEMAS AUTO COLLISION
396 BAY ST
STATEN ISLAND, NY 10301

RCRA NonGen / NLR **1004755615**
FINDS **NY0000119917**
MANIFEST

Click here for full text details

RCRA NonGen / NLR
EPA Id: NY0000119917

E63
NNE
1/8-1/4
0.133 mi.
702 ft.

Relative:
Lower

396 BAY ST
STATEN ISLAND, NY 10301

EDR US Hist Auto Stat **1015465882**
N/A

Click here for full text details

J64
NNE
1/8-1/4
0.148 mi.
780 ft.

Relative:
Lower

RITE AID #10535
385 BAY ST
STATEN ISLAND, NY 10301

RCRA-CESQG **1014927233**
NYR000190249

Click here for full text details

RCRA-CESQG
EPA Id: NYR000190249

J65
NNE
1/8-1/4
0.148 mi.
780 ft.

Relative:
Lower

RITE AID #10535
385 BAY ST
STATEN ISLAND, NY 10301

MANIFEST **S112211355**
N/A

Click here for full text details

J66
NNE
1/8-1/4
0.148 mi.
780 ft.

Relative:
Lower

385 BAY ST
STATEN ISLAND, NY 10301

EDR US Hist Cleaners **1015052354**
N/A

Click here for full text details

K67
SSE
1/8-1/4
0.148 mi.
780 ft.

Relative:
Lower

10 CROSS ST
STATEN ISLAND, NY 10304

Click here for full text details

EDR US Hist Auto Stat **1015116594**
N/A

K68
South
1/8-1/4
0.152 mi.
800 ft.

Relative:
Lower

BELL ATLANTIC NY
UNION PL & BAY ST
STATEN ISLAND, NY 10304

Click here for full text details

RCRA NonGen / NLR **1007205674**
NYP000938068

RCRA NonGen / NLR
EPA Id: NYP000938068

J69
NNE
1/8-1/4
0.160 mi.
847 ft.

Relative:
Lower

380 BAY ST
STATEN ISLAND, NY 10301

Click here for full text details

EDR US Hist Auto Stat **1015458101**
N/A

J70
NNE
1/8-1/4
0.160 mi.
847 ft.

Relative:
Lower

T&S AUTO INC.
380A BAY STREET
STATEN ISLAND, NY 10301

Click here for full text details

AST **A100318976**
N/A

AST
Facility Id: 2-610795

I71
SE
1/8-1/4
0.161 mi.
850 ft.

Relative:
Lower

355 FRONT ST/USN NAVAL ST
355 FRONT ST/BOAT LDG LOT
STATEN ISLAND, NY

Click here for full text details

LTANKS **S106703621**
HIST LTANKS **N/A**

LTANKS
Spill Number/Closed Date: 9202281 / 5/26/1992

HIST LTANKS
Spill Number/Closed Date: 9202281 / 05/26/92

I72
SE
1/8-1/4
0.161 mi.
850 ft.

Relative:
Lower

355 FRONT ST/NAVAL STA — **LTANKS** — **S106703618**
355 FRONT ST/NAVAL STA — **HIST LTANKS** — **N/A**
STATEN ISLAND, NY

Click here for full text details

LTANKS
Spill Number/Closed Date: 9201954 / 5/19/1992

HIST LTANKS
Spill Number/Closed Date: 9201954 / 05/19/92

L73
SW
1/8-1/4
0.162 mi.
853 ft.

Relative:
Higher

80 BEACH ST — **EDR US Hist Auto Stat** — **1015636958**
STATEN ISLAND, NY 10304 — **N/A**

Click here for full text details

L74
SSW
1/8-1/4
0.164 mi.
867 ft.

Relative:
Higher

57 BEACH ST — **EDR US Hist Auto Stat** — **1015556482**
STATEN ISLAND, NY 10304 — **N/A**

Click here for full text details

L75
SW
1/8-1/4
0.165 mi.
871 ft.

Relative:
Higher

96 BEACH ST — **EDR US Hist Cleaners** — **1015108624**
STATEN ISLAND, NY 10304 — **N/A**

Click here for full text details

J76
NNE
1/8-1/4
0.180 mi.
948 ft.

Relative:
Lower

8 GRANT ST — **EDR US Hist Auto Stat** — **1015636450**
STATEN ISLAND, NY 10301 — **N/A**

Click here for full text details

K77
South
1/8-1/4
0.180 mi.
951 ft.

Relative:
Lower

592 BAY ST
STATEN ISLAND, NY 10304

Click here for full text details

Database(s): EDR US Hist Cleaners
EDR ID Number: 1015078104
EPA ID Number: N/A

J78
NNE
1/8-1/4
0.180 mi.
952 ft.

Relative:
Lower

12 GRANT ST
STATEN ISLAND, NY 10301

Click here for full text details

Database(s): EDR US Hist Auto Stat
EDR ID Number: 1015177396
EPA ID Number: N/A

M79
South
1/8-1/4
0.184 mi.
971 ft.

Relative:
Lower

S I BANK & TRUST
15 BEACH STREET
STATEN ISLAND, NY 10304

Click here for full text details

AST
Facility Id: 2-605149

HIST AST
PBS Number: 2-605149

Database(s): AST, HIST AST
EDR ID Number: S107784016
EPA ID Number: N/A

M80
South
1/8-1/4
0.200 mi.
1058 ft.

Relative:
Lower

103 WATER STREET
103 WATER ST
STATEN ISLAND, NY 10304

Click here for full text details

AST
Facility Id: 2-601444

Database(s): AST
EDR ID Number: A100166614
EPA ID Number: N/A

81
WSW
1/8-1/4
0.213 mi.
1127 ft.

Relative:
Higher

148 BEACH ST
STATEN ISLAND, NY 10304

Click here for full text details

Database(s): EDR US Hist Auto Stat
EDR ID Number: 1015233526
EPA ID Number: N/A

N82
SSE
1/8-1/4
0.220 mi.
1159 ft.

Relative:
Lower

PARCEL P15 - FRONT STREET
STATEN ISLAND, NY 10304

Click here for full text details

DEL SHWS
Site Code Id: 243021

DEL SHWS **S105973028**
N/A

N83
SSE
1/8-1/4
0.220 mi.
1164 ft.

Relative:
Lower

PARCEL P15 - FRONT STREET
44 CANAL STREET
STATEN ISLAND, NY 10304

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SHWS **S106905136**
N/A

N84
SSE
1/8-1/4
0.220 mi.
1164 ft.

Relative:
Lower

44 CANAL ST
STATEN ISLAND, NY 10304

Click here for full text details

EDR US Hist Auto Stat **1015496499**
N/A

85
West
1/8-1/4
0.233 mi.
1229 ft.

Relative:
Higher

TRINITY LUTHERAN CHURCH
309 SAINT PAULS AVE
STATEN ISLAND, NY 10304

Click here for full text details

UST
Id/Status:: 2-601439 / Active
Id/Status:: 2-601439

HIST UST
PBS Number: 2-601439

UST **U001841926**
HIST UST **N/A**

86
South
1/8-1/4
0.234 mi.
1238 ft.

Relative:
Lower

GREEN ELECTRONICS SERVICE PROVIDERS
92 CANAL ST
STATEN ISLAND, NY 10304

Click here for full text details

RCRA NonGen / NLR
EPA Id: NYN008020778

RCRA NonGen / NLR **1012184784**
NYN008020778

87
NNW
1/8-1/4
0.245 mi.
1295 ft.

Relative:
Higher

STATEN ISLAND REGIONAL OFFICE - R829
90 GRANT ST (51 PAUL'S AVE)
STATEN ISLAND, NY 10301

AST **U003394003**
HIST AST **N/A**

Click here for full text details

AST
Facility Id: 2-351121

HIST AST
PBS Number: 2-351121

88
North
1/8-1/4
0.248 mi.
1311 ft.

Relative:
Higher

RICHMOND DISTRIBUTION CHAMBER
SAINT JULIAN PL & VANDUZER ST
STATEN ISLAND, NY 10301

RCRA-CESQG **1004761928**
FINDS **NYR000091819**
MANIFEST
MANIFEST

Click here for full text details

RCRA-CESQG
EPA Id: NYR000091819

89
NNE
1/4-1/2
0.297 mi.
1566 ft.

Relative:
Higher

STATEN ISLAND TRANSIT
293 BAY ST
STATEN ISLAND, NY

LTANKS **S104516902**
HIST LTANKS **N/A**
NY Spills

Click here for full text details

LTANKS
Spill Number/Closed Date: 9914731 / 6/27/2008
Spill Number/Closed Date: 0704699 / 6/27/2008

HIST LTANKS
Spill Number/Closed Date: 9914731 / Not Closed

NY Spills
Spill Number/Closed Date: 0110131 / 11/22/2002

90
SW
1/4-1/2
0.322 mi.
1702 ft.

Relative:
Higher

ROKICKI RESIDENCE
3 COURT ST
STATEN ISLAND, NY

LTANKS **S102960515**
HIST LTANKS **N/A**

Click here for full text details

LTANKS
Spill Number/Closed Date: 9711577 / 2/4/1998

HIST LTANKS
Spill Number/Closed Date: 9711577 / 02/04/98

91
West
1/4-1/2
0.323 mi.
1708 ft.

Relative:
Higher

37 MARION AVE — **LTANKS** — **S102960522**
37 MARION AVE — **HIST LTANKS** — **N/A**
STATEN ISLAND, NY

Click here for full text details

LTANKS
Spill Number/Closed Date: 9712019 / 2/19/2003

HIST LTANKS
Spill Number/Closed Date: 9712019 / Not Closed

92
North
1/4-1/2
0.355 mi.
1872 ft.

Relative:
Higher

CONTAMINATED SOIL — **HIST LTANKS** — **S102555966**
260 BAY ST — **N/A**
STATEN ISLAND, NY

Click here for full text details

HIST LTANKS
Spill Number/Closed Date: 9700621 / Not Closed

93
South
1/4-1/2
0.363 mi.
1917 ft.

Relative:
Higher

55 BROWNELL STREET — **LTANKS** — **S102234173**
55 BROWNELL STREET — **HIST LTANKS** — **N/A**
STATEN ISLAND, NY — **NY Spills**
NY Hist Spills

Click here for full text details

LTANKS
Spill Number/Closed Date: 9506831 / 9/5/1995

HIST LTANKS
Spill Number/Closed Date: 9506831 / 09/05/95

NY Spills
Spill Number/Closed Date: 9501229 / 4/28/1995

NY Hist Spills
Spill Number/Closed Date: 9501229 / 04/28/95

94
NNE
1/4-1/2
0.404 mi.
2131 ft.

Relative:
Lower

CROMWELL CENTER — **LTANKS** — **S103824670**
PIER 6 - BAY ST/HANNAH ST — **HIST LTANKS** — **N/A**
STATEN ISLAND, NY

Click here for full text details

LTANKS
Spill Number/Closed Date: 9813003 / Not Closed

HIST LTANKS

CROMWELL CENTER (Continued) **S103824670**

Spill Number/Closed Date: 9813003 / Not Closed

95
SSW
1/4-1/2
0.418 mi.
2206 ft.

Relative:
Higher

2 TOMPKINS AVE/S.I **LTANKS** **S106703312**
2 TOMPKINS AVENUE **HIST LTANKS** **N/A**
NEW YORK CITY, NY

Click here for full text details

LTANKS
Spill Number/Closed Date: 8809342 / 5/5/2005

HIST LTANKS
Spill Number/Closed Date: 8809342 / Not Closed

96
South
1/4-1/2
0.439 mi.
2318 ft.

Relative:
Higher

LTANKS **S104619694**
80 HARRISON ST **HIST LTANKS** **N/A**
STATEN ISLAND, NY **NY Spills**

Click here for full text details

LTANKS
Spill Number/Closed Date: 9807454 / 11/4/1998

HIST LTANKS
Spill Number/Closed Date: 9807454 / 11/04/98

NY Spills
Spill Number/Closed Date: 9807549 / 9/22/1998

O97
WSW
1/4-1/2
0.446 mi.
2356 ft.

Relative:
Higher

7 PEARL STREET **LTANKS** **S103238603**
7 PEARL STREET **HIST LTANKS** **N/A**
STATEN ISLAND, NY

Click here for full text details

LTANKS
Spill Number/Closed Date: 9510969 / 12/1/1995

HIST LTANKS
Spill Number/Closed Date: 9510969 / 12/01/95

P98
SW
1/4-1/2
0.475 mi.
2506 ft.

Relative:
Higher

ROSSVILLE JAIL SITE — **HSWDS** — **S108146269**
60 HUDSON STREET — **N/A**
STATEN ISLAND, NY 10309

Click here for full text details

HSWDS
Facility Id: HS2039

O99
WSW
1/4-1/2
0.479 mi.
2527 ft.

Relative:
Higher

92 PEARL STREET — **LTANKS** — **S101341254**
92 PEARL STREET — **HIST LTANKS** — **N/A**
STATEN ISLAND, NY

Click here for full text details

LTANKS
Spill Number/Closed Date: 9412370 / 2/28/2003

HIST LTANKS
Spill Number/Closed Date: 9412370 / Not Closed

P100
SW
1/4-1/2
0.486 mi.
2565 ft.

Relative:
Higher

88 GORDON AVENUE — **LTANKS** — **S100879043**
88 GORDON AVENUE — **HIST LTANKS** — **N/A**
STATEN ISLAND, NY

Click here for full text details

LTANKS
Spill Number/Closed Date: 9311963 / 3/15/2006

HIST LTANKS
Spill Number/Closed Date: 9311963 / Not Closed

101
NNW
1/4-1/2
0.490 mi.
2587 ft.

Relative:
Higher

180 VICTORY BLVD — **LTANKS** — **S106703096**
180 VICTORY BLVD — **HIST LTANKS** — **N/A**
STATEN ISLAND, NY — **NY Spills**

Click here for full text details

LTANKS
Spill Number/Closed Date: 8607073 / 2/19/1987

HIST LTANKS
Spill Number/Closed Date: 8607073 / 02/19/87

NY Spills
Spill Number/Closed Date: 9713781 / 11/9/1998

102
NNW
1/4-1/2
0.497 mi.
2626 ft.

Relative:
Higher

GULF GASOLINE
149 VICTORY BLVD
STATEN ISLAND, NY

HIST LTANKS **S104278547**
NY Spills **N/A**

Click here for full text details

HIST LTANKS
Spill Number/Closed Date: 9909102 / Not Closed

NY Spills
Spill Number/Closed Date: 9909102 / Not Closed
Spill Number/Closed Date: 0206669 / 5/12/2003

103
West
1/4-1/2
0.498 mi.
2627 ft.

Relative:
Higher

OUR LADY OF GOOD COUNSEL SCHOOL
42 AUSTIN PLACE
STATEN ISLAND, NY 10304

LTANKS **U003740210**
UST **N/A**
HIST UST

Click here for full text details

LTANKS
Spill Number/Closed Date: 0500264 / 2/17/2006

UST
Id/Status:: 2-604560 / Active
Id/Status:: 2-604560

HIST UST
PBS Number: 2-604560

Q104
SSE
1/2-1
0.786 mi.
4149 ft.

Relative:
Higher

BROOKLYN BOROUGH GAS WORKS (CLIFTON MGP)
25 AND 40 WILLOW AVE
STATEN ISLAND, NY 10304

EDR MGP **1008408044**
N/A

Click here for full text details

Q105
SSE
1/2-1
0.818 mi.
4320 ft.

Relative:
Lower

K - CLIFTON MGP - STATEN ISLAND
25 & 40 WILLOW AVE
STATEN ISLAND, NY 10305

SHWS **S108061190**
N/A

Click here for full text details

Map ID / Direction / Distance / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
106 **SSE** **1/2-1** **0.841 mi.** **4441 ft.** **Relative:** **Higher**	**NEW YORK AND RICHMOND GAS CO** **WILLOW AND BAY AVE** **STATEN ISLAND, NY 10304** **Click here for full text details**	**EDR MGP**	**1008408045** **N/A**

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
NY	AIRS	Air Emissions Data	Department of Environmental Conservation	12/31/2011	08/02/2012	10/03/2012
NY	AST	Petroleum Bulk Storage	Department of Environmental Conservation	01/02/2013	01/02/2013	01/16/2013
NY	BROWNFIELDS	Brownfields Site List	Department of Environmental Conservation	02/19/2013	02/20/2013	03/15/2013
NY	CBS	Chemical Bulk Storage Site Listing	Department of Environmental Conservation	01/02/2013	01/02/2013	01/16/2013
NY	CBS AST	Chemical Bulk Storage Database	NYSDEC	01/01/2002	02/20/2002	03/22/2002
NY	CBS UST	Chemical Bulk Storage Database	NYSDEC	01/01/2002	02/20/2002	03/22/2002
NY	COAL ASH	Coal Ash Disposal Site Listing	Department of Environmental Conservation	01/08/2013	01/09/2013	01/16/2013
NY	DEL SHWS	Delisted Registry Sites	Department of Environmental Conservation	02/19/2013	02/20/2013	03/15/2013
NY	DRYCLEANERS	Registered Drycleaners	Department of Environmental Conservation	01/18/2013	01/23/2013	03/15/2013
NY	E DESIGNATION	E DESIGNATION SITE LISTING	New York City Department of City Planning	12/10/2012	01/22/2013	03/15/2013
NY	ENG CONTROLS	Registry of Engineering Controls	Department of Environmental Conservation	02/19/2013	02/20/2013	03/15/2013
NY	ERP	Environmental Restoration Program Listing	Department of Environmental Conservation	02/19/2013	02/20/2013	03/15/2013
NY	Financial Assurance 1	Financial Assurance Information Listing	Department of Environmental Conservation	01/08/2013	01/09/2013	01/21/2013
NY	Financial Assurance 2	Financial Assurance Information Listing	Department of Environmental Conservation	10/31/2008	11/25/2008	12/11/2008
NY	HIST AST	Historical Petroleum Bulk Storage Database	Department of Environmental Conservation	01/01/2002	06/02/2006	07/20/2006
NY	HIST LTANKS	Listing of Leaking Storage Tanks	Department of Environmental Conservation	01/01/2002	07/08/2005	07/14/2005
NY	HIST SPILLS	SPILLS Database	Department of Environmental Conservation	01/01/2002	07/08/2005	07/14/2005
NY	HIST UST	Historical Petroleum Bulk Storage Database	Department of Environmental Conservation	01/01/2002	06/02/2006	07/20/2006
NY	HSWDS	Hazardous Substance Waste Disposal Site Inventory	Department of Environmental Conservation	01/01/2003	10/20/2006	11/30/2006
NY	INST CONTROL	Registry of Institutional Controls	Department of Environmental Conservation	02/19/2013	02/20/2013	03/15/2013
NY	LIENS	Spill Liens Information	Office of the State Comptroller	02/22/2013	02/27/2013	03/15/2013
NY	LTANKS	Spills Information Database	Department of Environmental Conservation	02/19/2013	02/20/2013	03/15/2013
NY	MOSF	Major Oil Storage Facility Site Listing	Department of Environmental Conservation	01/02/2013	01/02/2013	01/16/2013
NY	MOSF AST	Major Oil Storage Facilities Database	NYSDEC	01/01/2002	02/20/2002	03/22/2002
NY	MOSF UST	Major Oil Storage Facilities Database	NYSDEC	01/01/2002	02/20/2002	03/22/2002
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	02/01/2013	02/07/2013	03/15/2013
NY	RES DECL	Restrictive Declarations Listing	NYC Department of City Planning	11/18/2010	12/23/2010	02/11/2011
NY	SHWS	Inactive Hazardous Waste Disposal Sites in New York State	Department of Environmental Conservation	02/19/2013	02/20/2013	03/15/2013
NY	SPDES	State Pollutant Discharge Elimination System	Department of Environmental Conservation	01/28/2013	01/30/2013	03/15/2013
NY	SPILLS	Spills Information Database	Department of Environmental Conservation	02/19/2013	02/20/2013	03/15/2013
NY	SWF/LF	Facility Register	Department of Environmental Conservation	01/07/2013	01/09/2013	01/16/2013
NY	SWRCY	Registered Recycling Facility List	Department of Environmental Conservation	01/07/2013	01/09/2013	01/16/2013
NY	SWTIRE	Registered Waste Tire Storage & Facility List	Department of Environmental Conservation	08/01/2006	11/15/2006	11/30/2006
NY	TANKS	Storage Tank Faciliy Listing	Department of Environmental Conservation	01/02/2013	01/02/2013	01/16/2013
NY	UIC	Underground Injection Control Wells	Department of Environmental Conservation	12/10/2012	12/11/2012	01/16/2013
NY	UST	Petroleum Bulk Storage (PBS) Database	Department of Environmental Conservation	01/02/2013	01/02/2013	01/16/2013
NY	VAPOR REOPENED	Vapor Intrustion Legacy Site List	Department of Environmenal Conservation	01/01/2013	02/20/2013	03/15/2013
NY	VCP	Voluntary Cleanup Agreements	Department of Environmental Conservation	02/19/2013	02/20/2013	03/15/2013
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	11/11/2011	05/18/2012	05/25/2012
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2009	03/01/2011	05/02/2011
US	CERCLIS	Comprehensive Environmental Response, Compensation, and Liab	EPA	02/04/2013	03/01/2013	03/13/2013
US	CERCLIS-NFRAP	CERCLIS No Further Remedial Action Planned	EPA	02/05/2013	03/01/2013	03/13/2013
US	COAL ASH DOE	Sleam-Electric Plan Operation Data	Department of Energy	12/31/2005	08/07/2009	10/22/2009
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	08/17/2010	01/03/2011	03/21/2011
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	12/31/2011	01/15/2013	03/13/2013
US	CORRACTS	Corrective Action Report	EPA	02/12/2013	02/21/2013	02/27/2013
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	DELISTED NPL	National Priority List Deletions	EPA	02/01/2013	03/01/2013	03/13/2013
US	DOD	Department of Defense Sites	USGS	12/31/2005	11/10/2006	01/11/2007
US	DOT OPS	Incident and Accident Data	Department of Transporation, Office of Pipeli	07/31/2012	08/07/2012	09/18/2012
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EDR US Hist Auto Stat	EDR Proprietary Historic Gas Stations - Cole				
US	EDR US Hist Auto Stat	EDR Exclusive Historic Gas Stations	EDR, Inc.			
US	EDR US Hist Cleaners	EDR Proprietary Historic Dry Cleaners - Cole				
US	EDR US Hist Cleaners	EDR Exclusive Historic Dry Cleaners	EDR, Inc.			
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	07/31/2012	08/13/2012	09/18/2012
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	12/31/2012	01/17/2013	02/15/2013
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	07/31/2012	10/09/2012	12/20/2012
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	12/31/2005	02/06/2006	01/11/2007
US	FEMA UST	Underground Storage Tank Listing	FEMA	01/01/2010	02/16/2010	04/12/2010
US	FINDS	Facility Index System/Facility Registry System	EPA	10/23/2011	12/13/2011	03/01/2012
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	12/31/2011	02/26/2013	03/13/2013
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	12/31/2012	01/03/2013	02/27/2013
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	07/20/2011	11/10/2011	01/10/2012
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	04/12/2012	05/09/2012	07/10/2012
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	08/01/2012	08/02/2012	10/16/2012
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	12/14/2011	12/15/2011	01/10/2012
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	09/12/2011	09/13/2011	11/11/2011
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	08/17/2012	08/28/2012	10/16/2012
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	08/27/2012	08/28/2012	10/16/2012
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	09/06/2012	09/07/2012	10/16/2012
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2005	12/08/2006	01/11/2007
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	04/12/2012	05/02/2012	07/16/2012
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	08/01/2012	08/02/2012	10/16/2012
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	12/14/2011	12/15/2011	01/10/2012
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	08/02/2012	08/03/2012	11/05/2012
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	05/10/2011	05/11/2011	06/14/2011
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	08/17/2012	08/28/2012	10/16/2012
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	08/27/2012	08/28/2012	10/16/2012
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	09/06/2012	09/07/2012	10/16/2012
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	09/28/2012	10/02/2012	10/16/2012
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	02/16/2012	03/26/2012	06/14/2012
US	LUCIS	Land Use Control Information System	Department of the Navy	12/09/2005	12/11/2006	01/11/2007
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	06/21/2011	07/15/2011	09/13/2011
US	NPL	National Priority List	EPA	02/01/2013	03/01/2013	03/13/2013
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	11/01/2010	11/10/2010	02/16/2011

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	02/01/2011	10/19/2011	01/10/2012
US	PRP	Potentially Responsible Parties	EPA	12/02/2012	01/03/2013	03/13/2013
US	Proposed NPL	Proposed National Priority List Sites	EPA	02/01/2013	03/01/2013	03/13/2013
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	10/02/2012	10/02/2012	11/05/2012
US	RCRA NonGen / NLR	RCRA - Non Generators	Environmental Protection Agency	02/12/2013	02/15/2013	02/27/2013
US	RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generators	Environmental Protection Agency	02/12/2013	02/15/2013	02/27/2013
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	02/12/2013	02/15/2013	02/27/2013
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	02/12/2013	02/15/2013	02/27/2013
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	02/12/2013	02/15/2013	02/27/2013
US	RMP	Risk Management Plans	Environmental Protection Agency	05/08/2012	05/25/2012	07/10/2012
US	ROD	Records Of Decision	EPA	11/02/2012	12/11/2012	03/13/2013
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	03/07/2011	03/09/2011	05/02/2011
US	SSTS	Section 7 Tracking Systems	EPA	12/31/2009	12/10/2010	02/25/2011
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2009	09/01/2011	01/10/2012
US	TSCA	Toxic Substances Control Act	EPA	12/31/2006	09/29/2010	12/02/2010
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	09/14/2010	10/07/2011	03/01/2012
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	11/15/2012	11/16/2012	02/15/2013
US	US AIRS MINOR	Air Facility System Data	EPA	11/15/2012	11/16/2012	02/15/2013
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	12/10/2012	12/11/2012	12/20/2012
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	11/14/2012	12/11/2012	02/15/2013
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	12/19/2012	12/26/2012	02/27/2013
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	11/20/2012	11/30/2012	02/27/2013
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	09/01/2007	11/19/2008	03/30/2009
US	US INST CONTROL	Sites with Institutional Controls	Environmental Protection Agency	12/19/2012	12/26/2012	02/27/2013
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	08/18/2011	09/08/2011	09/29/2011
CT	CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protecti	02/18/2013	02/18/2013	03/21/2013
NJ	NJ MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2011	07/19/2012	08/28/2012
PA	PA MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2011	07/23/2012	09/18/2012
RI	RI MANIFEST	Manifest information	Department of Environmental Management	12/31/2011	06/22/2012	07/31/2012
VT	VT MANIFEST	Hazardous Waste Manifest Data	Department of Environmental Conservation	02/15/2013	02/21/2013	03/15/2013
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	12/31/2011	07/19/2012	09/27/2012
US	Oil/Gas Pipelines	GeoData Digital Line Graphs from 1:100,000-Scale Maps	USGS			
US	Electric Power Lines	Electric Power Transmission Line Data	Rextag Strategies Corp.			
US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
NY	Daycare Centers	Sensitive Receptor: Day Care Providers	Department of Health			
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
NY	State Wetlands	Freshwater Wetlands	Department of Environmental Conservation			
US	USGS 7.5' Topographic Map	Scanned Digital USGS 7.5' Topographic Map (DRG)	USGS			

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

BFC PARKING LOT
475 BAY STREET
STATEN ISLAND, NY 10301

TARGET PROPERTY COORDINATES

Latitude (North):	40.6305 - 40° 37' 49.80''
Longitude (West):	74.0766 - 74° 4' 35.76''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	578094.0
UTM Y (Meters):	4497939.0
Elevation:	16 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	40074-F1 JERSEY CITY, NJ NY
Most Recent Revision:	1981
South Map:	40074-E1 THE NARROWS, NY NJ
Most Recent Revision:	1998

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).

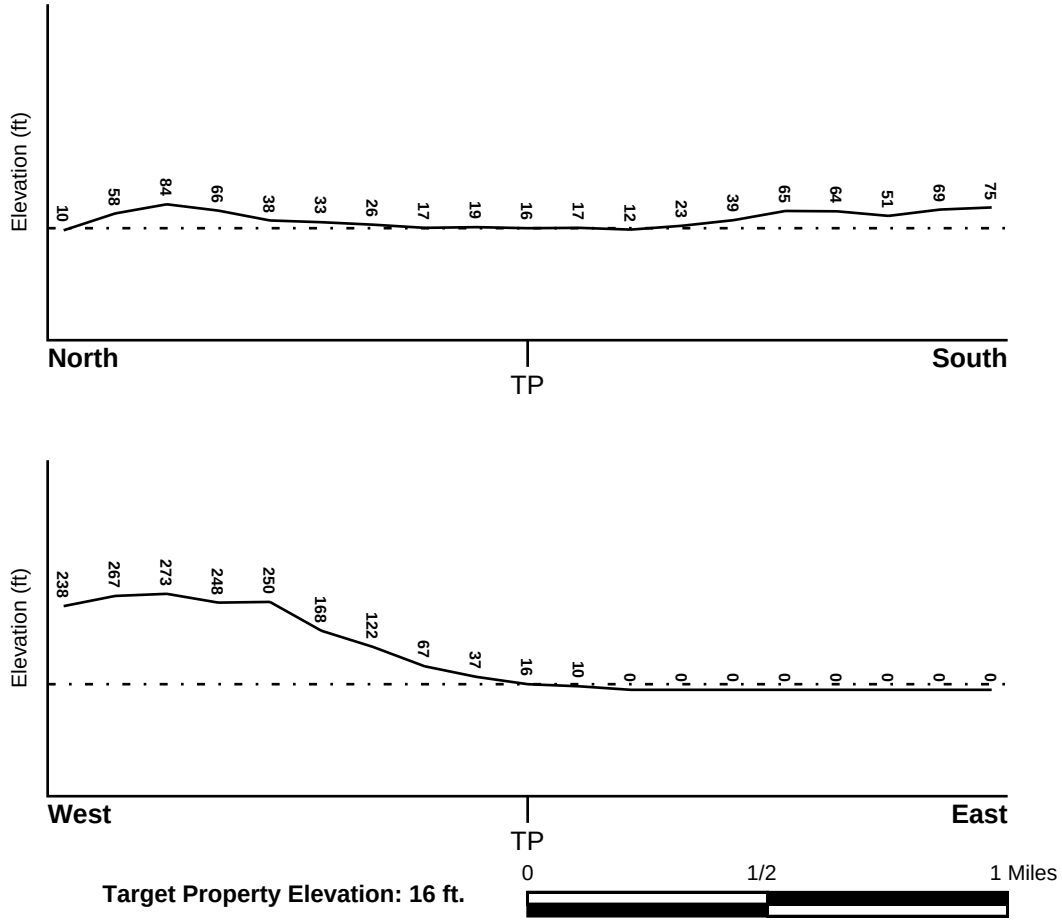
TOPOGRAPHIC INFORMATION

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 East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 16 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
RICHMOND, 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: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
JERSEY CITY	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
Status:	Not found

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:	Paleozoic
System:	Permian
Series:	Ultramafic rocks
Code:	uM *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Plutonic and Intrusive Rocks

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: sandy loam

Surficial Soil Types: sandy loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: unweathered bedrock
very gravelly - sandy loam
stratified
gravelly - 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
1	USGS40000826277	0 - 1/8 Mile North
2	USGS40000826228	1/8 - 1/4 Mile South
3	USGS40000826215	1/4 - 1/2 Mile SSW
4	USGS40000826343	1/4 - 1/2 Mile NNE
5	USGS40000826216	1/4 - 1/2 Mile SW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A6	USGS40000826203	1/4 - 1/2 Mile SSW
A7	USGS40000826204	1/4 - 1/2 Mile SSW
A8	USGS40000826205	1/4 - 1/2 Mile SSW
9	USGS40000826211	1/2 - 1 Mile WSW
10	USGS40000826447	1/2 - 1 Mile North
11	USGS40000826374	1/2 - 1 Mile NW
12	USGS40000826457	1/2 - 1 Mile North
13	USGS40000826148	1/2 - 1 Mile South
14	USGS40000826144	1/2 - 1 Mile South

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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		

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	NYOG70000000001	1/2 - 1 Mile North
A2	NYOG70000000002	1/2 - 1 Mile North

PHYSICAL SETTING SOURCE MAP - 3568702.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	BFC Parking Lot	CLIENT:	URS Corporation
ADDRESS:	475 Bay Street Staten Island NY 10301	CONTACT:	Bob Wolff
		INQUIRY #:	3568702.2s
LAT/LONG:	40.6305 / 74.0766	DATE:	April 05, 2013 1:52 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
A1 **North** **1/2 - 1 Mile**	Click here for full text details	**OIL_GAS**	**NYOG70000000001**
A2 **North** **1/2 - 1 Mile**	Click here for full text details	**OIL_GAS**	**NYOG70000000002**
1 **North** **0 - 1/8 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000826277**
2 **South** **1/8 - 1/4 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000826228**
3 **SSW** **1/4 - 1/2 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000826215**
4 **NNE** **1/4 - 1/2 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000826343**
5 **SW** **1/4 - 1/2 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000826216**
A6 **SSW** **1/4 - 1/2 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000826203**
A7 **SSW** **1/4 - 1/2 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000826204**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
A8 **SSW** **1/4 - 1/2 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000826205**
9 **WSW** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000826211**
10 **North** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000826447**
11 **NW** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000826374**
12 **North** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000826457**
13 **South** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000826148**
14 **South** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000826144**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for RICHMOND 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 RICHMOND COUNTY, NY

Number of sites tested: 61

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.670 pCi/L	98%	2%	0%
Basement	1.250 pCi/L	84%	15%	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 and 2005 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.

STATE RECORDS

New York Public Water Wells
Source: New York Department of Health
Telephone: 518-458-6731

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Department of Environmental Conservation
Telephone: 518-402-8072
These files contain records, in the database, of wells that have been drilled.

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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BFC Parking Lot
475 Bay Street
Staten Island, NY 10301

Inquiry Number: 3568702.2s
April 05, 2013

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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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 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

475 BAY STREET
STATEN ISLAND, NY 10301

COORDINATES

Latitude (North):	40.6305000 - 40° 37' 49.80''
Longitude (West):	74.0766000 - 74° 4' 35.76''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	578094.0
UTM Y (Meters):	4497939.0
Elevation:	16 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	40074-F1 JERSEY CITY, NJ NY
Most Recent Revision:	1981
South Map:	40074-E1 THE NARROWS, NY NJ
Most Recent Revision:	1998

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	2010, 2011
Source:	USDA

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

NPL---------- National Priority List

EXECUTIVE SUMMARY

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

CERCLIS ---------- Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

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

VAPOR REOPENED ---------- Vapor Intrusion Legacy Site List

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

TANKS ---------- Storage Tank Faciliy Listing
CBS UST ---------- Chemical Bulk Storage Database
MOSF UST ---------- Major Oil Storage Facilities Database
CBS AST ---------- Chemical Bulk Storage Database
MOSF AST ---------- Major Oil Storage Facilities Database
MOSF ---------- Major Oil Storage Facility Site Listing
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

ENG CONTROLS ---------- Registry of Engineering Controls
INST CONTROL ---------- Registry of Institutional Controls
RES DECL ---------- Restrictive Declarations Listing

State and tribal voluntary cleanup sites

VCP ---- Voluntary Cleanup Agreements
INDIAN VCP ---- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

ERP ---- Environmental Restoration Program Listing
BROWNFIELDS ---- Brownfields Site List

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---- Open Dump Inventory
SWTIRE ---- Registered Waste Tire Storage & Facility List
SWRCY ---- Registered Recycling 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
US HIST CDL ---- National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

HIST AST ---- Historical Petroleum Bulk Storage Database

Local Land Records

LIENS 2 ---- CERCLA Lien Information
LIENS ---- Spill Liens Information

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System

Other Ascertainable Records

DOT OPS ---- Incident and Accident Data
DOD ---- Department of Defense Sites
FUDS ---- Formerly Used Defense Sites
CONSENT ---- Superfund (CERCLA) Consent Decrees
ROD ---- Records Of Decision
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
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System
RMP	Risk Management Plans
UIC	Underground Injection Control Wells
DRYCLEANERS	Registered Drycleaners
SPDES	State Pollutant Discharge Elimination System
AIRS	Air Emissions Data
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
Financial Assurance	Financial Assurance Information Listing
2020 COR ACTION	2020 Corrective Action Program List
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH	Coal Ash Disposal Site Listing
PCB TRANSFORMER	PCB Transformer Registration Database
PRP	Potentially Responsible Parties
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
US AIRS	Aerometric Information Retrieval System Facility Subsystem

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.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site List

CERC-NFRAP: 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.

A review of the CERC-NFRAP list, as provided by EDR, and dated 02/05/2013 has revealed that there is

1 CERC-NFRAP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NAVAL STATION SAPLETON	***355 FRONT STREET***	***ESE 0 - 1/8 (0.050 mi.)***	***C27***	***89***

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 02/12/2013 has revealed that there are 2 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
STAPLETON COURT	551 BAY ST	S 0 - 1/8 (0.104 mi.)	F44	150

Lower Elevation	Address	Direction / Distance	Map ID	Page
NEW STAPLETON WATERFRONT	FRONT & WAVE ST	ESE 0 - 1/8 (0.041 mi.)	C22	72

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 02/12/2013 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MTA NYCT - STAPLETON STATION -	BAY & PROSPECT STS	S 0 - 1/8 (0.103 mi.)	F43	149

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 02/12/2013 has revealed that there are 2 RCRA-CESQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RICHMOND DISTRIBUTION CHAMBER	***SAINT JULIAN PL & VANDU***	***N 1/8 - 1/4 (0.248 mi.)***	***88***	***236***

Lower Elevation	Address	Direction / Distance	Map ID	Page
RITE AID #10535	385 BAY ST	NNE 1/8 - 1/4 (0.148 mi.)	J64	194

State- and tribal - equivalent CERCLIS

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 SHWS list, as provided by EDR, and dated 02/19/2013 has revealed that there are 2 SHWS sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PARCEL P15 - FRONT STREET	44 CANAL STREET	SSE 1/8 - 1/4 (0.220 mi.)	N83	225
K - CLIFTON MGP - STATEN ISLAN	25 & 40 WILLOW AVE	SSE 1/2 - 1 (0.818 mi.)	Q105	308

State and tribal landfill and/or solid waste disposal site lists

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 SWF/LF list, as provided by EDR, and dated 01/07/2013 has revealed that there are 2 SWF/LF sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
A JOFI'S AUTO BODY INC	33 WAVE STREET	SSE 0 - 1/8 (0.013 mi.)	B6	28
THOMAS J. MANZO; INC	320 FRONT ST	SE 0 - 1/8 (0.075 mi.)	D35	134

State and tribal leaking storage tank lists

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 LTANKS list, as provided by EDR, and dated 02/19/2013 has revealed that there are 18 LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
29 BALTIC STREET Date Closed: 11/19/1992	***29 BALTIC ST***	***NNW 0 - 1/8 (0.035 mi.)***	***14***	***39***
HOMEPORT SERVICE STATION Date Closed: 3/15/2006	***511 BAY ST***	***S 0 - 1/8 (0.036 mi.)***	***A16***	***42***
304 PROSPECT AVE/GOOD HUE Date Closed: 3/5/2003	***304 PROSPECT AVENUE***	***SSW 0 - 1/8 (0.123 mi.)***	***H56***	***179***
STATEN ISLAND TRANSIT Date Closed: 6/27/2008	***293 BAY ST***	***NNE 1/4 - 1/2 (0.297 mi.)***	***89***	***261***
ROKICKI RESIDENCE Date Closed: 2/4/1998	***3 COURT ST***	***SW 1/4 - 1/2 (0.322 mi.)***	***90***	***266***
37 MARION AVE Date Closed: 2/19/2003	***37 MARION AVE***	***W 1/4 - 1/2 (0.323 mi.)***	***91***	***268***

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
55 BROWNELL STREET Date Closed: 9/5/1995	***55 BROWNELL STREET***	***S 1/4 - 1/2 (0.363 mi.)***	***93***	***272***
2 TOMPKINS AVE/S.I Date Closed: 5/5/2005	***2 TOMPKINS AVENUE***	***SSW 1/4 - 1/2 (0.418 mi.)***	***95***	***279***
Not reported Date Closed: 11/4/1998	***80 HARRISON ST***	***S 1/4 - 1/2 (0.439 mi.)***	***96***	***281***
7 PEARL STREET Date Closed: 12/1/1995	***7 PEARL STREET***	***WSW 1/4 - 1/2 (0.446 mi.)***	***O97***	***285***
92 PEARL STREET Date Closed: 2/28/2003	***92 PEARL STREET***	***WSW 1/4 - 1/2 (0.479 mi.)***	***O99***	***289***
88 GORDON AVENUE Date Closed: 3/15/2006	***88 GORDON AVENUE***	***SW 1/4 - 1/2 (0.486 mi.)***	***P100***	***291***
180 VICTORY BLVD Date Closed: 2/19/1987	***180 VICTORY BLVD***	***NNW 1/4 - 1/2 (0.490 mi.)***	***101***	***293***
OUR LADY OF GOOD COUNSEL SCHOO Date Closed: 2/17/2006	***42 AUSTIN PLACE***	***W 1/4 - 1/2 (0.498 mi.)***	***103***	***303***

Lower Elevation	Address	Direction / Distance	Map ID	Page
355 FRONT STREET Date Closed: 5/18/1993 Date Closed: 12/11/2003	***355 FRONT STREET***	***ESE 0 - 1/8 (0.050 mi.)***	***C31***	***120***
355 FRONT ST/USN NAVAL ST Date Closed: 5/26/1992	***355 FRONT ST/BOAT LDG L***	***SE 1/8 - 1/4 (0.161 mi.)***	***I71***	***210***
355 FRONT ST/NAVAL STA Date Closed: 5/19/1992	***355 FRONT ST/NAVAL STA***	***SE 1/8 - 1/4 (0.161 mi.)***	***I72***	***212***
CROMWELL CENTER	***PIER 6 - BAY ST/HANNAH***	***NNE 1/4 - 1/2 (0.404 mi.)***	***94***	***276***

HIST LTANKS: 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.

A review of the HIST LTANKS list, as provided by EDR, and dated 01/01/2002 has revealed that there are 19 HIST LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
29 BALTIC STREET Date Closed: 11/19/92	***29 BALTIC ST***	***NNW 0 - 1/8 (0.035 mi.)***	***14***	***39***
HOMEPORT SERVICE STATION	***511 BAY ST***	***S 0 - 1/8 (0.036 mi.)***	***A16***	***42***
304 PROSPECT AVE/GOOD HUE	***304 PROSPECT AVENUE***	***SSW 0 - 1/8 (0.123 mi.)***	***H56***	***179***
STATEN ISLAND TRANSIT	***293 BAY ST***	***NNE 1/4 - 1/2 (0.297 mi.)***	***89***	***261***
ROKICKI RESIDENCE Date Closed: 02/04/98	***3 COURT ST***	***SW 1/4 - 1/2 (0.322 mi.)***	***90***	***266***
37 MARION AVE	***37 MARION AVE***	***W 1/4 - 1/2 (0.323 mi.)***	***91***	***268***
CONTAMINATED SOIL	260 BAY ST	N 1/4 - 1/2 (0.355 mi.)	92	271
55 BROWNELL STREET Date Closed: 09/05/95	***55 BROWNELL STREET***	***S 1/4 - 1/2 (0.363 mi.)***	***93***	***272***

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
2 TOMPKINS AVE/S.I	***2 TOMPKINS AVENUE***	***SSW 1/4 - 1/2 (0.418 mi.)***	***95***	***279***
Not reported	***80 HARRISON ST***	***S 1/4 - 1/2 (0.439 mi.)***	***96***	***281***
Date Closed: 11/04/98				
7 PEARL STREET	***7 PEARL STREET***	***WSW 1/4 - 1/2 (0.446 mi.)***	***O97***	***285***
Date Closed: 12/01/95				
92 PEARL STREET	***92 PEARL STREET***	***WSW 1/4 - 1/2 (0.479 mi.)***	***O99***	***289***
88 GORDON AVENUE	***88 GORDON AVENUE***	***SW 1/4 - 1/2 (0.486 mi.)***	***P100***	***291***
180 VICTORY BLVD	***180 VICTORY BLVD***	***NNW 1/4 - 1/2 (0.490 mi.)***	***101***	***293***
Date Closed: 02/19/87				
GULF GASOLINE	***149 VICTORY BLVD***	***NNW 1/4 - 1/2 (0.497 mi.)***	***102***	***296***

Lower Elevation	Address	Direction / Distance	Map ID	Page
355 FRONT STREET	***355 FRONT STREET***	***ESE 0 - 1/8 (0.050 mi.)***	***C31***	***120***
Date Closed: 05/18/93				
355 FRONT ST/USN NAVAL ST	***355 FRONT ST/BOAT LDG L***	***SE 1/8 - 1/4 (0.161 mi.)***	***I71***	***210***
Date Closed: 05/26/92				
355 FRONT ST/NAVAL STA	***355 FRONT ST/NAVAL STA***	***SE 1/8 - 1/4 (0.161 mi.)***	***I72***	***212***
Date Closed: 05/19/92				
CROMWELL CENTER	***PIER 6 - BAY ST/HANNAH***	***NNE 1/4 - 1/2 (0.404 mi.)***	***94***	***276***

State and tribal registered storage tank lists

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 UST list, as provided by EDR, and dated 01/02/2013 has revealed that there are 6 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NEW METHOD SCR CO	***465 BAY STREET***	***N 0 - 1/8 (0.007 mi.)***	***A4***	***22***
HOME PORT SER ST INC.	***511 BAY STREET***	***S 0 - 1/8 (0.036 mi.)***	***A19***	***52***
MOLA MOLIC	337 VAN DUZER STREET	WSW 0 - 1/8 (0.113 mi.)	G49	158
TRINITY LUTHERAN CHURCH	***309 SAINT PAULS AVE***	***W 1/8 - 1/4 (0.233 mi.)***	***85***	***227***

Lower Elevation	Address	Direction / Distance	Map ID	Page
STAPLETON FACILITY	355 FRONT STREET	ESE 0 - 1/8 (0.050 mi.)	C28	105
DEMA'S AUTO CENTER INC.	396 BAY STREET	NNE 1/8 - 1/4 (0.133 mi.)	E61	188

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 AST list, as provided by EDR, and dated 01/02/2013 has revealed that there are 9 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MOLA MOLIC	337 VAN DUZER STREET	WSW 0 - 1/8 (0.113 mi.)	G47	156

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
H&S AUTO SERVICE INC.	406 BAY STREET	NNE 0 - 1/8 (0.117 mi.)	E52	174
PROSPECT 88 REALTY, LLC	560 BAY STREET	S 0 - 1/8 (0.125 mi.)	F58	184
STATEN ISLAND REGIONAL OFFICE	***90 GRANT ST (51 PAUL'S***	***NNW 1/8 - 1/4 (0.245 mi.)***	***87***	***232***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MARINE COMPANY 9	***305 FRONT STREET***	***E 0 - 1/8 (0.040 mi.)***	***21***	***69***
STAPLETON FACILITY	***355 FRONT STREET***	***ESE 0 - 1/8 (0.050 mi.)***	***C29***	***111***
T&S AUTO INC.	380A BAY STREET	NNE 1/8 - 1/4 (0.160 mi.)	J70	208
S I BANK & TRUST	***15 BEACH STREET***	***S 1/8 - 1/4 (0.184 mi.)***	***M79***	***217***
103 WATER STREET	103 WATER ST	S 1/8 - 1/4 (0.200 mi.)	M80	220

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

DEL SHWS: A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

A review of the DEL SHWS list, as provided by EDR, and dated 02/19/2013 has revealed that there is 1 DEL SHWS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PARCEL P15 - FRONT STREET		SSE 1/8 - 1/4 (0.220 mi.)	N82	223

Local Lists of Registered Storage Tanks

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 HIST UST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 6 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NEW METHOD SCR CO	***465 BAY STREET***	***N 0 - 1/8 (0.007 mi.)***	***A4***	***22***
HOME PORT SER ST INC.	***511 BAY STREET***	***S 0 - 1/8 (0.036 mi.)***	***A19***	***52***
MOLA MOLIC	337 VAN DUZER STREET	WSW 0 - 1/8 (0.113 mi.)	G50	165
EILIN REALTY CORP	560 BAY ST	S 0 - 1/8 (0.125 mi.)	F59	186
TRINITY LUTHERAN CHURCH	***309 SAINT PAULS AVE***	***W 1/8 - 1/4 (0.233 mi.)***	***85***	***227***

Lower Elevation	Address	Direction / Distance	Map ID	Page
STAPLETON FACILITY	***355 FRONT STREET***	***ESE 0 - 1/8 (0.050 mi.)***	***C29***	***111***

EXECUTIVE SUMMARY

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 02/19/2013 has revealed that there are 10 NY Spills sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BAY ST & WILLIAMS ST Date Closed: 4/6/1993	***BAY ST & WILLIAMS ST***	***WNW 0 - 1/8 (0.028 mi.)***	***A12***	***36***
HOMEPORT SERVICE STATION Date Closed: 4/13/1989	***511 BAY ST***	***S 0 - 1/8 (0.036 mi.)***	***A16***	***42***
Not reported Date Closed: 11/3/2003	***73 WAVE ST***	***SW 0 - 1/8 (0.044 mi.)***	***A23***	***74***
STREET SPILL Date Closed: 7/18/2007	BAY STREET/CLINTON STRE	NNE 0 - 1/8 (0.093 mi.)	E40	145
Not reported Date Closed: 4/5/2001	***BAY ST/CLINTON***	***NNE 0 - 1/8 (0.093 mi.)***	***E41***	***146***
Not reported Date Closed: 7/14/2003	***61 WILLIAM***	***WNW 0 - 1/8 (0.111 mi.)***	***45***	***152***
VAN DUZER ST & PROSPECT S Date Closed: 11/22/1993	***VAN DUZER ST & PROSPECT***	***WSW 0 - 1/8 (0.113 mi.)***	***G46***	***154***
589 PROSPECT AVE. Date Closed: 12/28/1993	***589 PROSPECT AVE.***	***SW 0 - 1/8 (0.122 mi.)***	***H55***	***177***

Lower Elevation	Address	Direction / Distance	Map ID	Page
WAVE STREET YARD DOT -DDC Date Closed: 10/3/2003 Date Closed: 7/14/2003	***34 WAVE STREET***	***SSE 0 - 1/8 (0.027 mi.)***	***B10***	***32***
355 FRONT STREET Date Closed: 5/1/2000 Date Closed: 12/11/2003	***355 FRONT STREET***	***ESE 0 - 1/8 (0.050 mi.)***	***C31***	***120***

**Additional key fields are available in the Map Findings section*

NY Hist Spills: 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.

A review of the NY Hist Spills list, as provided by EDR, and dated 01/01/2002 has revealed that there are 13 NY Hist Spills sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BAY ST & WILLIAMS ST	***BAY ST & WILLIAMS ST***	***WNW 0 - 1/8 (0.028 mi.)***	***A12***	***36***
HOMEPORT SERVICE STATION	***511 BAY ST***	***S 0 - 1/8 (0.036 mi.)***	***A16***	***42***
BAY ST & WAVE ST/S.I/GULF	BAY STREET / WAVE STREE	S 0 - 1/8 (0.036 mi.)	A18	51

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	***73 WAVE ST***	***SW 0 - 1/8 (0.044 mi.)***	***A23***	***74***
Not reported	***BAY ST/CLINTON***	***NNE 0 - 1/8 (0.093 mi.)***	***E41***	***146***
Not reported	***61 WILLIAM***	***WNW 0 - 1/8 (0.111 mi.)***	***45***	***152***
VAN DUZER ST & PROSPECT S	***VAN DUZER ST & PROSPECT***	***WSW 0 - 1/8 (0.113 mi.)***	***G46***	***154***
589 PROSPECT AVE.	***589 PROSPECT AVE.***	***SW 0 - 1/8 (0.122 mi.)***	***H55***	***177***

Lower Elevation	Address	Direction / Distance	Map ID	Page
WAVE STREET YARD DOT -DDC	***34 WAVE STREET***	***SSE 0 - 1/8 (0.027 mi.)***	***B10***	***32***
34 WAVE STREET	34 WAVE STREET	SSE 0 - 1/8 (0.027 mi.)	B11	35
STATEN ISLAND HOME PORT	355 FRONT ST	ESE 0 - 1/8 (0.050 mi.)	C26	88
355 FRONT ST/US NAVY	355 FRONT ST	ESE 0 - 1/8 (0.050 mi.)	C30	119
355 FRONT STREET	***355 FRONT STREET***	***ESE 0 - 1/8 (0.050 mi.)***	***C31***	***120***

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 02/12/2013 has revealed that there are 10 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HARBOR ISLE CHEVROLET	***478 BAY ST***	***SSW 0 - 1/8 (0.002 mi.)***	***A1***	***8***
NEW METHOD SERVICE CO INC	***465 BAY STREET***	***N 0 - 1/8 (0.007 mi.)***	***A3***	***19***
SERVICE STATION	***511-517 BAY ST***	***S 0 - 1/8 (0.036 mi.)***	***A17***	***50***

Lower Elevation	Address	Direction / Distance	Map ID	Page
NYCDOT	***34 WAVE ST***	***SSE 0 - 1/8 (0.027 mi.)***	***B9***	***30***
NAVSTA N Y FORT WADSWORTH	***FORT WADSWORTH***	***ESE 0 - 1/8 (0.049 mi.)***	***C25***	***76***
NAVAL STATION SAPLETON	***355 FRONT STREET***	***ESE 0 - 1/8 (0.050 mi.)***	***C27***	***89***
ACME REPAIR INC	***328 FRONT ST***	***SE 0 - 1/8 (0.089 mi.)***	***D39***	***144***
DEMAS AUTO COLLISION	***396 BAY ST***	***NNE 1/8 - 1/4 (0.133 mi.)***	***E62***	***190***
BELL ATLANTIC NY	UNION PL & BAY ST	S 1/8 - 1/4 (0.152 mi.)	K68	206
GREEN ELECTRONICS SERVICE PROV	92 CANAL ST	S 1/8 - 1/4 (0.234 mi.)	86	231

HSWDS: 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 latest version of the study 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 in the registry. So overtime they will be added to the registry or not.

A review of the HSWDS list, as provided by EDR, and dated 01/01/2003 has revealed that there is 1

HSWDS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ROSSVILLE JAIL SITE	60 HUDSON STREET	SW 1/4 - 1/2 (0.475 mi.)	P98	287

MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the MANIFEST list, as provided by EDR, and dated 02/01/2013 has revealed that there are 9 MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HARBOR ISLE CHEVROLET	***478 BAY ST***	***SSW 0 - 1/8 (0.002 mi.)***	***A1***	***8***
NEW METHOD SCR CO	***465 BAY STREET***	***N 0 - 1/8 (0.007 mi.)***	***A4***	***22***
HOMEPORT SERVICE STATION	***511 BAY ST***	***S 0 - 1/8 (0.036 mi.)***	***A16***	***42***
RICHMOND DISTRIBUTION CHAMBER	***SAINT JULIAN PL & VANDU***	***N 1/8 - 1/4 (0.248 mi.)***	***88***	***236***

Lower Elevation	Address	Direction / Distance	Map ID	Page
NAVSTA N Y FORT WADSWORTH	***FORT WADSWORTH***	***ESE 0 - 1/8 (0.049 mi.)***	***C25***	***76***
NAVAL STATION SAPLETON	***355 FRONT STREET***	***ESE 0 - 1/8 (0.050 mi.)***	***C27***	***89***
STAPLETON COURT	40 PROSPECT STREET	S 0 - 1/8 (0.096 mi.)	F42	149
DEMAS AUTO COLLISION	***396 BAY ST***	***NNE 1/8 - 1/4 (0.133 mi.)***	***E62***	***190***
RITE AID #10535	385 BAY ST	NNE 1/8 - 1/4 (0.148 mi.)	J65	196

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 E DESIGNATION list, as provided by EDR, and dated 12/10/2012 has revealed that there are 6 E DESIGNATION sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LOT 37,TAXBLOCK 490	328 PROSPECT STREET	SSW 0 - 1/8 (0.114 mi.)	H51	171

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOT 25,TAXBLOCK 489	308 FRONT STREET	SE 0 - 1/8 (0.056 mi.)	C32	130
LOT 45,TAXBLOCK 490	15 PROSPECT STREET	SSE 0 - 1/8 (0.084 mi.)	D36	134
LOT 29,TAXBLOCK 491	14 PROSPECT STREET	SSE 0 - 1/8 (0.086 mi.)	D37	138
LOT 32,TAXBLOCK 491	10 PROSPECT STREET	SE 0 - 1/8 (0.087 mi.)	D38	141
LOT 37,TAXBLOCK 491	346 FRONT STREET	SE 0 - 1/8 (0.124 mi.)	I57	181

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.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BROOKLYN BOROUGH GAS WORKS (CL	25 AND 40 WILLOW AVE	SSE 1/2 - 1 (0.786 mi.)	Q104	308
NEW YORK AND RICHMOND GAS CO	WILLOW AND BAY AVE	SSE 1/2 - 1 (0.841 mi.)	106	310

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 22 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	490 BAY ST	SSW 0 - 1/8 (0.013 mi.)	A5	28
Not reported	15 WILLIAM ST	NW 0 - 1/8 (0.032 mi.)	A13	38
Not reported	511 BAY ST	S 0 - 1/8 (0.036 mi.)	A15	42
Not reported	510 BAY ST	S 0 - 1/8 (0.037 mi.)	A20	69
Not reported	70 WAVE ST	SSW 0 - 1/8 (0.044 mi.)	A24	76
Not reported	337 VAN DUZER ST	WSW 0 - 1/8 (0.113 mi.)	G48	158
Not reported	406 BAY ST	NNE 0 - 1/8 (0.117 mi.)	E53	176
Not reported	404 BAY ST	NNE 0 - 1/8 (0.119 mi.)	E54	176
Not reported	80 BEACH ST	SW 1/8 - 1/4 (0.162 mi.)	L73	214
Not reported	57 BEACH ST	SSW 1/8 - 1/4 (0.164 mi.)	L74	215
Not reported	148 BEACH ST	WSW 1/8 - 1/4 (0.213 mi.)	81	222

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	31 WAVE ST	SSE 0 - 1/8 (0.020 mi.)	B7	29
Not reported	33 WAVE ST	SSE 0 - 1/8 (0.022 mi.)	B8	29
Not reported	308 FRONT ST	SE 0 - 1/8 (0.056 mi.)	C33	133
Not reported	27 SANDS ST	SSE 0 - 1/8 (0.058 mi.)	B34	133
Not reported	350 FRONT ST	SE 1/8 - 1/4 (0.132 mi.)	I60	188
Not reported	396 BAY ST	NNE 1/8 - 1/4 (0.133 mi.)	E63	193
Not reported	10 CROSS ST	SSE 1/8 - 1/4 (0.148 mi.)	K67	206
Not reported	380 BAY ST	NNE 1/8 - 1/4 (0.160 mi.)	J69	207
Not reported	8 GRANT ST	NNE 1/8 - 1/4 (0.180 mi.)	J76	215
Not reported	12 GRANT ST	NNE 1/8 - 1/4 (0.180 mi.)	J78	216
Not reported	44 CANAL ST	SSE 1/8 - 1/4 (0.220 mi.)	N84	227

EXECUTIVE SUMMARY

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 4 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	465 BAY ST	N 0 - 1/8 (0.007 mi.)	A2	19
Not reported	96 BEACH ST	SW 1/8 - 1/4 (0.165 mi.)	L75	215

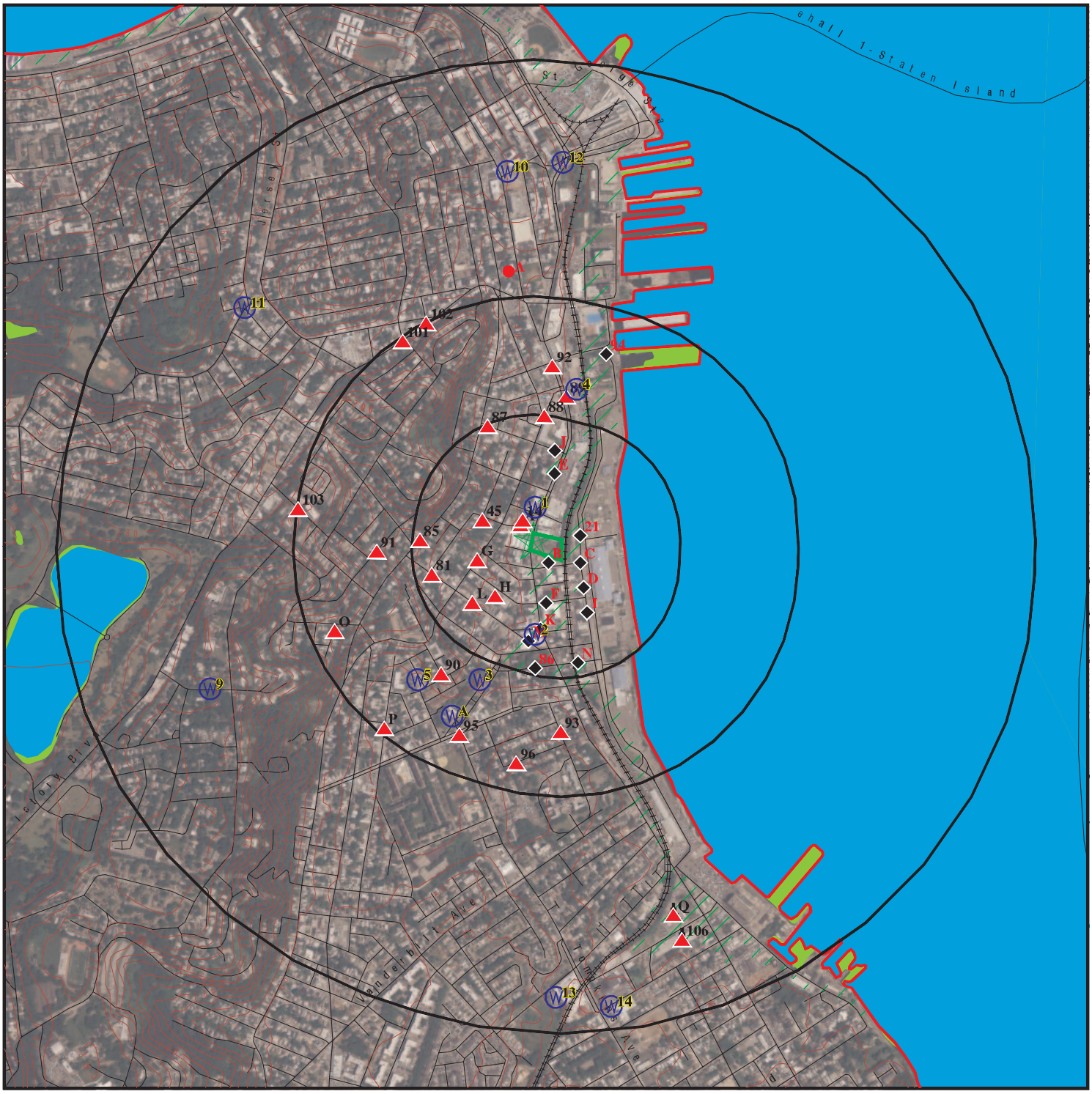
Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	385 BAY ST	NNE 1/8 - 1/4 (0.148 mi.)	J66	205
Not reported	592 BAY ST	S 1/8 - 1/4 (0.180 mi.)	K77	216

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

Site Name	Database(s)
BARGE 210 AND BERMAN NATHAN	CERCLIS,FINDS,PRP
CONSOLIDATED EDISON	RCRA-NLR,MANIFEST
NYSDOT REG 2 FIELD OFFICE	FINDS,MANIFEST,RCRA-NLR
BELL ATLANTIC-NY	FINDS,MANIFEST
NYSDEC	MANIFEST
CONSOLIDATED EDISON	MANIFEST
L & L PAINTINT	MANIFEST
COASTAL PIPELINE @ PORT IVORY	MANIFEST
CONSOLIDATED EDISON	RCRA-NLR,MANIFEST
CONSOLIDATED EDISON	RCRA-NLR,MANIFEST
BROOKFIELD AVENUE LANDFILL	CERCLIS,RCRA-NLR
KILL VAN KULL	SPILLS,LTANKS,HIST LTANKS,HIST SPILLS
MTA NYCT - TOMPKINSVILLE STATION -	RCRA-SQG
BELL ATLANTIC-NY	RCRA-NLR
NASER PROPERTY - BLOCK 2892 - LOT	FINDS
RT 440	SPILLS,HIST SPILLS
OUTERBRIDEG CROSSING	SPILLS
LOWER NY BAY	SPILLS,HIST SPILLS
NEWARK BAY/WEST BAYONNE	SPILLS,HIST SPILLS
RARITAN BAY/BUOY MARK #14	SPILLS,HIST SPILLS

OVERVIEW MAP - 3568702.2s



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

Indian Reservations BIA

County Boundary

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

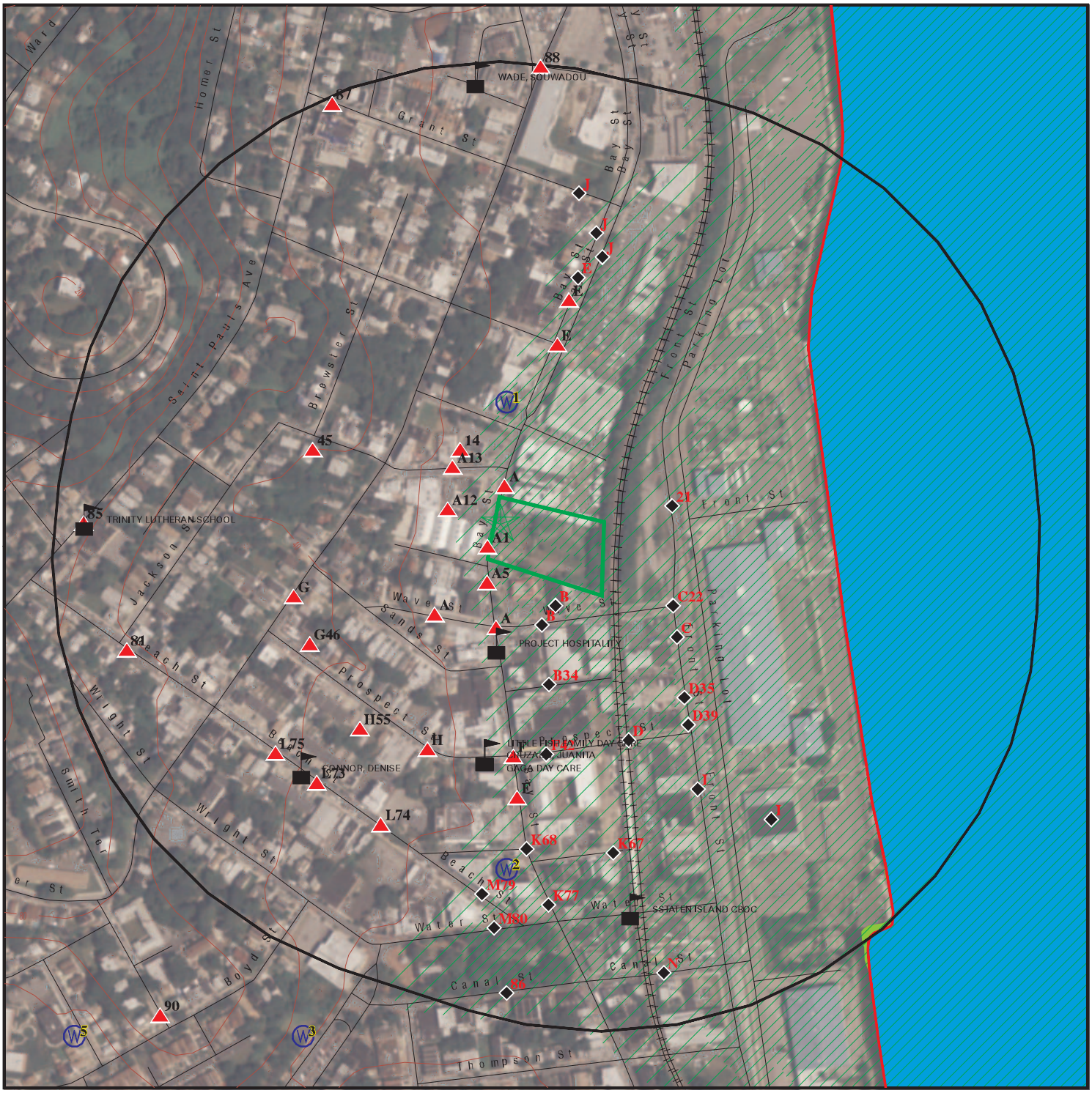
State Wetlands

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:	BFC Parking Lot	CLIENT:	URS Corporation
ADDRESS:	475 Bay Street Staten Island NY 10301	CONTACT:	Bob Wolff
		INQUIRY #:	3568702.2s
LAT/LONG:	40.6305 / 74.0766	DATE:	April 05, 2013 1:52 pm

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DETAIL MAP - 3568702.2s



0 1/16 1/8 1/4 Miles

- 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
- 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: BFC Parking Lot	CLIENT: URS Corporation
ADDRESS: 475 Bay Street Staten Island NY 10301	CONTACT: Bob Wolff INQUIRY #: 3568702.2s
LAT/LONG: 40.6305 / 74.0766	DATE: April 05, 2013 1:52 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	0	NR	0
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		1	0	0	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
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	0	NR	NR	NR	2
RCRA-SQG	0.250		1	0	NR	NR	NR	1
RCRA-CESQG	0.250		0	2	NR	NR	NR	2
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								
SHWS	1.000		0	1	0	1	NR	2
VAPOR REOPENED	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		2	0	0	NR	NR	2
State and tribal leaking storage tank lists								
LTANKS	0.500		4	2	12	NR	NR	18
HIST LTANKS	0.500		4	2	13	NR	NR	19
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								
TANKS	0.250		0	0	NR	NR	NR	0
UST	0.250		4	2	NR	NR	NR	6
CBS UST	0.250		0	0	NR	NR	NR	0
MOSF UST	0.500		0	0	0	NR	NR	0
AST	0.250		5	4	NR	NR	NR	9
CBS AST	0.250		0	0	NR	NR	NR	0
MOSF AST	0.500		0	0	0	NR	NR	0
MOSF	0.500		0	0	0	NR	NR	0
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								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
RES DECL	0.125		0	NR	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
ERP	0.500		0	0	0	NR	NR	0
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
SWTIRE	0.500		0	0	0	NR	NR	0
SWRCY	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
DEL SHWS	1.000		0	1	0	0	NR	1
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
HIST UST	0.250		5	1	NR	NR	NR	6
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
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		10	NR	NR	NR	NR	10
NY Hist Spills	0.125		13	NR	NR	NR	NR	13
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		7	3	NR	NR	NR	10
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
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
HSWDS	0.500		0	0	1	NR	NR	1
UIC	TP		NR	NR	NR	NR	NR	0
MANIFEST	0.250		6	3	NR	NR	NR	9
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
SPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
E DESIGNATION	0.125		6	NR	NR	NR	NR	6
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
PRP	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
US AIRS	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

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
EDR US Hist Auto Stat	0.250		12	10	NR	NR	NR	22
EDR US Hist Cleaners	0.250		1	3	NR	NR	NR	4

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 SSW < 1/8 0.002 mi. 8 ft. | **HARBOR ISLE CHEVROLET**
478 BAY ST
STATEN ISLAND, NY 10304 | **RCRA NonGen / NLR**
FINDS
MANIFEST | **1000164268**
NYD107649618

Site 1 of 15 in cluster A

Relative: Higher

Actual: 16 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	HARBOR ISLE CHEVROLET
Facility address:	478 BAY ST STATEN ISLAND, NY 103043833
EPA ID:	NYD107649618
Mailing address:	BAY ST STATEN ISLAND, NY 10304
Contact:	Not reported
Contact address:	BAY ST STATEN ISLAND, NY 10304
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:	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
Used oil processor:	No
User oil refiner:	No

HARBOR ISLE CHEVROLET (Continued) **1000164268**

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
Facility name: HARBOR ISLE CHEVROLET
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: HARBOR ISLE CHEVROLET
Classification: Not a generator, verified

Date form received by agency: 09/16/1985
Facility name: HARBOR ISLE CHEVROLET
Classification: Large Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 11/15/1986
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110004379716

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: NYD107649618
Country: USA
Mailing Name: HARBOR ISLE CHEVROLET
Mailing Contact: JOHN J KANE
Mailing Address: 478-480 BAY STREET
Mailing Address 2: Not reported
Mailing City: STATEN ISLAND
Mailing State: NY
Mailing Zip: 10304
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 718-727-8862

Document ID: NJA0711163

HARBOR ISLE CHEVROLET (Continued) **1000164268**

Manifest Status:	Completed copy
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	900119
Trans1 Recv Date:	900119
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	900119
Part A Recv Date:	900129
Part B Recv Date:	900125
Generator EPA ID:	NYD107649618
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00258
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	90

Document ID:	NJA0710408
Manifest Status:	Completed copy
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	891218
Trans1 Recv Date:	891218
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	891218
Part A Recv Date:	891227
Part B Recv Date:	891227
Generator EPA ID:	NYD107649618
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00258
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:	Not reported
Quantity:	00090
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	89

Document ID:	NJA0708058
Manifest Status:	Completed copy
Trans1 State ID:	000000000

HARBOR ISLE CHEVROLET (Continued) **1000164268**

Trans2 State ID:	000000000
Generator Ship Date:	890828
Trans1 Recv Date:	890828
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	890828
Part A Recv Date:	890913
Part B Recv Date:	890905
Generator EPA ID:	NYD107649618
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00258
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	89

Document ID:	NJA0734471
Manifest Status:	Completed copy
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	891127
Trans1 Recv Date:	891127
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	891127
Part A Recv Date:	891204
Part B Recv Date:	891205
Generator EPA ID:	NYD107649618
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00258
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	89

Document ID:	NJA0723831
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS869
Trans2 State ID:	Not reported
Generator Ship Date:	891031
Trans1 Recv Date:	891031
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	891031
Part A Recv Date:	891108
Part B Recv Date:	891110
Generator EPA ID:	NYD107649618
Trans1 EPA ID:	ILD051060408

HARBOR ISLE CHEVROLET (Continued) **1000164268**

Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00258
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	89

Document ID:	NJA0197523
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS-86
Trans2 State ID:	Not reported
Generator Ship Date:	860512
Trans1 Recv Date:	860512
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	860512
Part A Recv Date:	860515
Part B Recv Date:	860521
Generator EPA ID:	NYD107649618
Trans1 EPA ID:	ILD000805911
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00240
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	86

Document ID:	NJA0192669
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NJDEPS-86
Trans2 State ID:	Not reported
Generator Ship Date:	860416
Trans1 Recv Date:	860416
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	860416
Part A Recv Date:	860522
Part B Recv Date:	860429
Generator EPA ID:	NYD107649618
Trans1 EPA ID:	ILD000805911
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00240
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100

HARBOR ISLE CHEVROLET (Continued) **1000164268**

Waste Code:	Not reported
Quantity:	00090
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	86

Document ID:	NJA0107241
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NJDEPS-86
Trans2 State ID:	12514
Generator Ship Date:	860319
Trans1 Recv Date:	860319
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	860319
Part A Recv Date:	860522
Part B Recv Date:	860604
Generator EPA ID:	NYD107649618
Trans1 EPA ID:	ILD000805911
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00240
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	86

Document ID:	NJA0801075
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NJDEPS869
Trans2 State ID:	Not reported
Generator Ship Date:	900509
Trans1 Recv Date:	900509
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	900509
Part A Recv Date:	900629
Part B Recv Date:	900705
Generator EPA ID:	NYD107649618
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00258
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	90

HARBOR ISLE CHEVROLET (Continued) **1000164268**

Document ID:	NJA0703260
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS869
Trans2 State ID:	Not reported
Generator Ship Date:	900319
Trans1 Recv Date:	900319
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	900319
Part A Recv Date:	900411
Part B Recv Date:	900413
Generator EPA ID:	NYD107649618
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00258
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:	Not reported
Quantity:	00090
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	90

Document ID:	NJA0808399
Manifest Status:	Completed copy
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	900216
Trans1 Recv Date:	900216
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	900216
Part A Recv Date:	900312
Part B Recv Date:	900307
Generator EPA ID:	NYD107649618
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00258
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	90

Document ID:	NJA0215273
Manifest Status:	Completed copy

HARBOR ISLE CHEVROLET (Continued) **1000164268**

Trans1 State ID:	NJDEPS869
Trans2 State ID:	Not reported
Generator Ship Date:	860707
Trans1 Recv Date:	860707
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	860707
Part A Recv Date:	860710
Part B Recv Date:	860716
Generator EPA ID:	NYD107649618
Trans1 EPA ID:	ILD000805911
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00240
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00090
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	86

Document ID:	NJA0203990
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS869
Trans2 State ID:	Not reported
Generator Ship Date:	860610
Trans1 Recv Date:	860610
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	860610
Part A Recv Date:	860619
Part B Recv Date:	860626
Generator EPA ID:	NYD107649618
Trans1 EPA ID:	ILD000805911
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00240
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	86

Document ID:	NJA0228294
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS-86
Trans2 State ID:	Not reported

HARBOR ISLE CHEVROLET (Continued) **1000164268**

Generator Ship Date:	860903
Trans1 Recv Date:	860903
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	860903
Part A Recv Date:	860910
Part B Recv Date:	860911
Generator EPA ID:	NYD107649618
Trans1 EPA ID:	ILD000805911
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00240
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	86

Document ID:	NJA0244034
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS869
Trans2 State ID:	Not reported
Generator Ship Date:	861126
Trans1 Recv Date:	861126
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	861126
Part A Recv Date:	861203
Part B Recv Date:	861209
Generator EPA ID:	NYD107649618
Trans1 EPA ID:	ILD000805911
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00240
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	86

Document ID:	NJA0214254
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS-10
Trans2 State ID:	Not reported
Generator Ship Date:	860820
Trans1 Recv Date:	860820
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	860821
Part A Recv Date:	860826
Part B Recv Date:	860828
Generator EPA ID:	NYD107649618
Trans1 EPA ID:	NJD980787147
Trans2 EPA ID:	Not reported

HARBOR ISLE CHEVROLET (Continued) **1000164268**

TSDF ID:	NJD002454544
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00040
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	86

Document ID:	MNA5023868
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS869
Trans2 State ID:	Not reported
Generator Ship Date:	860929
Trans1 Recv Date:	860929
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	860929
Part A Recv Date:	861007
Part B Recv Date:	861008
Generator EPA ID:	NYD107649618
Trans1 EPA ID:	NJD000768093
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00240
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00090
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	86

Document ID:	NJA0225198
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS-86
Trans2 State ID:	Not reported
Generator Ship Date:	860806
Trans1 Recv Date:	860806
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	860806
Part A Recv Date:	860813
Part B Recv Date:	860821
Generator EPA ID:	NYD107649618
Trans1 EPA ID:	ILD000805911
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES

HARBOR ISLE CHEVROLET (Continued) **1000164268**

Quantity:	00240
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	86

Document ID:	NJA0329972
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS869
Trans2 State ID:	Not reported
Generator Ship Date:	870611
Trans1 Recv Date:	870611
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	870611
Part A Recv Date:	870623
Part B Recv Date:	870624
Generator EPA ID:	NYD107649618
Trans1 EPA ID:	ILD000805911
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00160
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00090
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:	87

Document ID:	NJA0253787
Manifest Status:	Completed copy
Trans1 State ID:	DECAL#990
Trans2 State ID:	Not reported
Generator Ship Date:	861203
Trans1 Recv Date:	861203
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	861204
Part A Recv Date:	861209
Part B Recv Date:	861210
Generator EPA ID:	NYD107649618
Trans1 EPA ID:	NJD980787147
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002454544
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00045
Units:	G - Gallons (liquids only)* (8.3 pounds)

HARBOR ISLE CHEVROLET (Continued) **1000164268**

Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 86

Click this hyperlink while viewing on your computer to access
43 additional NY_MANIFEST: record(s) in the EDR Site Report.

A2 **EDR US Hist Cleaners** **1015064455**
North **465 BAY ST** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.007 mi.
37 ft. **Site 2 of 15 in cluster A**

Relative:
Higher

Actual:
16 ft.

EDR Historical Cleaners:

Name: MR CLEANERS
Year: 2007
Address: 465 BAY ST

Name: MR CHOIS CLEANERS INC
Year: 2008
Address: 465 BAY ST

Name: MR CLEANERS
Year: 2010
Address: 465 BAY ST

Name: MR CLEANERS
Year: 2011
Address: 465 BAY ST

Name: MR CLEANERS
Year: 2012
Address: 465 BAY ST

A3 **NEW METHOD SERVICE CO INC** **RCRA NonGen / NLR** **1000123997**
North **465 BAY STREET** **FINDS** **NYD012466926**
< 1/8 **STATEN ISLAND, NY 10304**
0.007 mi.
37 ft. **Site 3 of 15 in cluster A**

Relative:
Higher

Actual:
16 ft.

RCRA NonGen / NLR:

Date form received by agency: 01/01/2007
Facility name: NEW METHOD SERVICE CO INC
Facility address: 465 BAY ST
STATEN ISLAND, NY 103043851
EPA ID: NYD012466926
Mailing address: BAY ST
STATEN ISLAND, NY 10304
Contact: Not reported
Contact address: BAY ST
STATEN ISLAND, NY 10304
Contact country: US
Contact telephone: Not reported
Contact email: Not reported

NEW METHOD SERVICE CO INC (Continued) **1000123997**

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 METHOD SERVICE CO
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: NEW METHOD SERVICE CO
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
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
Facility name: NEW METHOD SERVICE CO INC
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: NEW METHOD SERVICE CO INC
Classification: Not a generator, verified

Date form received by agency: 11/08/1985
Facility name: NEW METHOD SERVICE CO INC
Classification: Large Quantity Generator

NEW METHOD SERVICE CO INC (Continued) **1000123997**

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/13/1990
Date achieved compliance: 08/13/1990
Violation lead agency: State
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

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/03/1989
Date achieved compliance: 08/03/1989
Violation lead agency: State
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: 08/13/1990
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 08/13/1990
Evaluation lead agency: State

Evaluation date: 08/03/1989
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 08/03/1989
Evaluation lead agency: State

FINDS:

Registry ID: 110012644095

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.

A4 **NEW METHOD SCR CO** **UST** **U003644446**
North **465 BAY STREET** **HIST UST** **N/A**
< 1/8 **STATEN ISLAND, NY 10304** **MANIFEST**
0.007 mi.
37 ft. **Site 4 of 15 in cluster A**

Relative:
Higher

Actual:
16 ft.

UST:

Id/Status:	2-602833 / Unregulated
Region:	STATE
DEC Region:	2
Program Type:	PBS
Expiration Date:	N/A
UTM X:	578084.14066999999
UTM Y:	4498166.4202699997

Affiliation Records:

Site Id:	24788
Affiliation Type:	Owner
Company Name:	HYBERMA ASSOCIATES
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	P.O. BOX 60
Address2:	Not reported
City:	PRINCETON JUNCTION
State:	NJ
Zip Code:	08550
Country Code:	001
Phone:	(609) 275-5564
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	24788
Affiliation Type:	Mail Contact
Company Name:	% STATEN ISLAND KAWASAKI
Contact Type:	Not reported
Contact Name:	ROBERT ARCATE
Address1:	457 BAY STREET
Address2:	Not reported
City:	STATEN ISLAND
State:	NY
Zip Code:	10304
Country Code:	001
Phone:	(718) 447-2020
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	24788
Affiliation Type:	On-Site Operator
Company Name:	RAINBOW LINEN
Contact Type:	Not reported
Contact Name:	LARRY GENTILE
Address1:	Not reported
Address2:	Not reported
City:	Not reported

NEW METHOD SCR CO (Continued) **U003644446**

State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 815-4155
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	24788
Affiliation Type:	Emergency Contact
Company Name:	HYBERMA ASSOCIATES
Contact Type:	Not reported
Contact Name:	LORETTA BOYLE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 273-0252
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Site ID:	12006

Tank Number:	001
Tank ID:	14121
Tank Status:	Administratively Closed
Tank Type:	Steel/carbon steel
Pipe Model:	Not reported

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
J02 - Dispenser - Suction
D02 - Pipe Type - Galvanized Steel
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Install Date:	09/01/1950
Capacity Gallons:	10000
Tightness Test Method:	03
Next Test Date:	Not reported
Date Tank Closed:	05/08/2000
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	10/01/1996
Registered:	True
Modified By:	TRANSLAT

NEW METHOD SCR CO (Continued) **U003644446**

Last Modified: 03/04/2004

Site ID: 24788

Tank Number: 001
Tank ID: 51781
Tank Status: Closed - In Place
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
B00 - Tank External Protection - None
I00 - Overfill - None

Install Date: Not reported
Capacity Gallons: 10000
Tightness Test Method: 03
Next Test Date: Not reported
Date Tank Closed: 05/01/2001
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: 10/01/1996
Registered: True
Modified By: TRANSLAT
Last Modified: 03/04/2004

Affiliation Records:

Site Id: 12006
Affiliation Type: Owner
Company Name: NEW METHOD SCR CO
Contact Type: Not reported
Contact Name: Not reported
Address1: 465 BAY ST
Address2: Not reported
City: SI NY
State: NY
Zip Code: 10304
Country Code: 001
Phone: (718) 448-8500
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 12006
Affiliation Type: Mail Contact
Company Name: NEW METHOD SCR CO
Contact Type: Not reported
Contact Name: Not reported
Address1: 465 BAY ST

NEW METHOD SCR CO (Continued) **U003644446**

Address2:	Not reported
City:	SI NY
State:	NY
Zip Code:	10304
Country Code:	001
Phone:	(718) 448-8500
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	12006
Affiliation Type:	On-Site Operator
Company Name:	NEW METHOD SCR CO
Contact Type:	Not reported
Contact Name:	NEW METHOD SCR CO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 448-8500
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	12006
Affiliation Type:	Emergency Contact
Company Name:	NEW METHOD SCR CO
Contact Type:	Not reported
Contact Name:	RALPH COMOLETTI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 448-8500
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Site ID:	12006

Tank Number:	001
Tank ID:	14121
Tank Status:	Administratively Closed
Tank Type:	Steel/carbon steel
Pipe Model:	Not reported

NEW METHOD SCR CO (Continued) **U003644446**

Equipment Records:
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
J02 - Dispenser - Suction
D02 - Pipe Type - Galvanized Steel
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Install Date: 09/01/1950
Capacity Gallons: 10000
Tightness Test Method: 03
Next Test Date: Not reported
Date Tank Closed: 05/08/2000
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: 10/01/1996
Registered: True
Modified By: TRANSLAT
Last Modified: 03/04/2004

Site ID: 24788

Tank Number: 001
Tank ID: 51781
Tank Status: Closed - In Place
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
B00 - Tank External Protection - None
I00 - Overfill - None

Install Date: Not reported
Capacity Gallons: 10000
Tightness Test Method: 03
Next Test Date: Not reported
Date Tank Closed: 05/01/2001
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: 10/01/1996
Registered: True
Modified By: TRANSLAT
Last Modified: 03/04/2004

HIST UST:
PBS Number: 2-277657
SPDES Number: Not reported
Emergency Contact: RALPH COMOLETTI
Emergency Telephone: (718) 448-8500

NEW METHOD SCR CO (Continued) **U003644446**

Operator:	NEW METHOD SCR CO
Operator Telephone:	(718) 448-8500
Owner Name:	NEW METHOD SCR CO
Owner Address:	465 BAY ST
Owner City,St,Zip:	SI NY, NY 10304
Owner Telephone:	(718) 448-8500
Owner Type:	Not reported
Owner Subtype:	Not reported
Mailing Name:	NEW METHOD SCR CO
Mailing Address:	465 BAY ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SI NY, NY 10304
Mailing Contact:	Not reported
Mailing Telephone:	(718) 448-8500
Owner Mark:	First Owner
Facility Status:	3 - Administratively closed (reasons include business is closed and/or mail is undeliverable, and staff cannot check if tanks were removed; or a duplicate registration was generated).
Facility Addr2:	465 BAY ST
SWIS ID:	6401
Old PBS Number:	Not reported
Facility Type:	Not reported
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	01/31/1997
Expiration Date:	07/10/1992
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	Minor Data Missing
Owner Screen:	Minor Data Missing
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	64
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Undefined
Install Date:	19500901
Capacity (gals):	10000
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:	None

NEW METHOD SCR CO (Continued) **U003644446**

Leak Detection: None
Overfill Prot: Product Level Gauge
Dispenser: Suction
Date Tested: 10/01/1996
Next Test Date: 10/01/2001
Missing Data for Tank: Minor Data Missing
Date Closed: 05/08/2000
Test Method: Horner EZ Check
Deleted: False
Updated: True
Lat/long: Not reported

NY MANIFEST:
EPA ID: NYD012466926
Country: USA
Mailing Name: JEEVES VALET SERVICES
Mailing Contact: JEEVES VALET SERVICES
Mailing Address: 465 BAY STREET-ATTN: R SALERNO
Mailing Address 2: Not reported
Mailing City: STATEN ISLAND
Mailing State: NY
Mailing Zip: 10304
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 718-448-8500

NY MANIFEST:
No Manifest Records Available

A5 **EDR US Hist Auto Stat** **1015517220**
SSW **490 BAY ST** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.013 mi.
68 ft. **Site 5 of 15 in cluster A**

Relative:
Higher

Actual:
16 ft.

EDR Historical Auto Stations:
Name: NEW CLIFTON CAR SERVICE
Year: 2004
Address: 490 BAY ST

B6 **A JOFI'S AUTO BODY INC** **SWF/LF** **S108145608**
SSE **33 WAVE STREET** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.013 mi.
71 ft. **Site 1 of 7 in cluster B**

Relative:
Lower

Actual:
14 ft.

SWF/LF:
Flag: INACTIVE
Region Code: 2
Phone Number: Not reported
Owner Name: Not reported
Owner Type: Not reported
Owner Address: Not reported
Owner Addr2: Not reported
Owner City,St,Zip: Not reported

A JOFI'S AUTO BODY INC (Continued) **S108145608**

Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Vehicle Dismantling
Activity Number:	Not reported
Active:	No
East Coordinate:	578125
North Coordinate:	4498035
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported

B7 **EDR US Hist Auto Stat** **1015411850**
SSE **31 WAVE ST** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.020 mi.
105 ft. **Site 2 of 7 in cluster B**

Relative:
Lower

Actual:
14 ft.

EDR Historical Auto Stations:

Name:	GRANT AUTO BODY
Year:	2000
Address:	31 WAVE ST

B8 **EDR US Hist Auto Stat** **1015429268**
SSE **33 WAVE ST** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.022 mi.
114 ft. **Site 3 of 7 in cluster B**

Relative:
Lower

Actual:
15 ft.

EDR Historical Auto Stations:

Name:	A JOFIS AUTO BODY INC
Year:	2001
Address:	33 WAVE ST
Name:	A JOFIS AUTO BODY INC
Year:	2002
Address:	33 WAVE ST
Name:	AJOFIS AUTO BODY INC
Year:	2003
Address:	33 WAVE ST
Name:	A JOFIS AUTO BODY INC
Year:	2004
Address:	33 WAVE ST
Name:	A JOFIS AUTO BODY INC
Year:	2005

(Continued) **1015429268**

Address: 33 WAVE ST

Name: A JOFIS AUTO BODY INC
Year: 2006
Address: 33 WAVE ST

Name: STATEN ISLAND AUTO SPA INC
Year: 2009
Address: 33 WAVE ST

Name: AJOFIS AUTO BODY INC
Year: 2010
Address: 33 WAVE ST

Name: S AUTO BODY AJOFIS
Year: 2011
Address: 33 WAVE ST

Name: S AUTO BODY AJOFIS
Year: 2012
Address: 33 WAVE ST

B9 **NYCDOT** **RCRA NonGen / NLR** **1001079830**
SSE **34 WAVE ST** **FINDS** **NYR000015370**
< 1/8 **STATEN ISLAND, NY 10304**
0.027 mi.
140 ft. **Site 4 of 7 in cluster B**

Relative:
Lower

Actual:
15 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: NYCDOT
Facility address: 34 WAVE ST
STATEN ISLAND, NY 10304
EPA ID: NYR000015370
Mailing address: WAVE ST
STATEN ISLAND, NY 10304
Contact: ROGER KRAFT
Contact address: WAVE ST
STATEN ISLAND, NY 10304
Contact country: US
Contact telephone: (718) 720-6798
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: CITY OF NEW YORK
Owner/operator address: ONE CENTER ST
NEW YORK, NY 10007
Owner/operator country: US
Owner/operator telephone: (212) 669-7222
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

NYCDOT (Continued) **1001079830**

Owner/operator name: CITY OF NEW YORK
Owner/operator address: ONE CENTER ST
NEW YORK, NY 10007
Owner/operator country: US
Owner/operator telephone: (212) 669-7222
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
Facility name: NYCDOT
Classification: Not a generator, verified

Date form received by agency: 10/24/1995
Facility name: NYCDOT
Classification: Not a generator, verified

Violation Status: No violations found

FINDS:

Registry ID: 110004519744

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.

B10 **WAVE STREET YARD DOT -DDC** **NY Spills** **S103560748**
SSE **34 WAVE STREET** **NY Hist Spills** **N/A**
< 1/8 **STATEN ISLAND, NY**
0.027 mi.
140 ft. **Site 5 of 7 in cluster B**

Relative:
Lower

Actual:
15 ft.

SPILLS:

Facility ID:	9611411
DER Facility ID:	171676
Facility Type:	ER
Site ID:	206802
DEC Region:	2
Spill Date:	12/17/1996
Spill Number/Closed Date:	9611411 / 7/14/2003
Spill Cause:	Unknown
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
SWIS:	4301
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	12/17/1996
CID:	205
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	DEC
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:	12/17/1996
Spill Record Last Update:	12/23/2004
Spiller Name:	Not reported
Spiller Company:	NYC
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	D.O.T. GARAGE
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	GASOLINE VAPORS IN BUILDING.

Material:

Site ID:	206802
Operable Unit ID:	1042853
Operable Unit:	01
Material ID:	343608
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:

WAVE STREET YARD DOT -DDC (Continued) **S103560748**

Facility ID:	9508968
DER Facility ID:	171676
Facility Type:	ER
Site ID:	324691
DEC Region:	2
Spill Date:	10/19/1995
Spill Number/Closed Date:	9508968 / 10/3/2003
Spill Cause:	Other
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	4301
Investigator:	JMKRIMGO
Referred To:	Not reported
Reported to Dept:	10/20/1995
CID:	199
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:	10/20/1995
Spill Record Last Update:	10/3/2003
Spiller Name:	Not reported
Spiller Company:	NYC
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	JOSEPH DULTZ
Contact Phone:	(908) 526-1000 444
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KRIMGOLD"Mulqueen took spill on off hour shift, referend to Alex Posner, for DGS Monitor Supervision.10/3/03/. J.Krimgold. Remediation of this site has been completed. (see DDC files for details). NFA.
Remarks:	CALLER WORKS FOR A COMPANY THAT WAS DOING BORING SAMPLES-THEREIS AN UNDERGROUND TANK THAT IS SCHED.TO BE REMOVED NEXT WEEKAND TEST WERE BEING DONE TO DETERMINE HOW MUCH AND HOW WIDE THE CONTAMINATION IS

Material:

Site ID:	324691
Operable Unit ID:	1023306
Operable Unit:	01
Material ID:	359934
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:

WAVE STREET YARD DOT -DDC (Continued) **S103560748**

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

NY Hist Spills:

Region of Spill:	2
Spill Number/Closed Date:	9508968 / Not Closed
Investigator:	ZHITOMIRSKY
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	10/19/1995 12:00
Reported to Dept Date/Time:	10/20/95 18:11
SWIS:	64
Spiller Name:	Not reported
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Contact:	JOSEPH DULTZ
Spiller Phone:	(908) 526-1000 444
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Other
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	01
Spill Notifier:	Other
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	10/20/95
Date Spill Entered In Computer Data File:	Not reported
Update Date:	10/14/97
Is Updated:	False

Tank:

Material:

Material Class Type:	Petroleum
Quantity Spilled:	0
Unkonwn Quantity Spilled:	True
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	True
Material:	#2 FUEL OIL
Class Type:	#2 FUEL OIL

WAVE STREET YARD DOT -DDC (Continued) **S103560748**

Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Mulqueen took spill on off hour shift, referend to Alex Posner, for DGS Monitor Supervision.
Remark: CALLER WORKS FOR A COMPANY THAT WAS DOING BORING SAMPLES-THERE IS AN UNDERGROUND TANK THAT IS SCHED.TO BE REMOVED NEXT WEEK AND TEST WERE BEING DONE TO DETERMINE HOW MUCH AND HOW WIDE THE CONTAMINATION IS

B11 **34 WAVE STREET** **NY Hist Spills** **S102235140**
SSE **34 WAVE STREET** **N/A**
< 1/8 **STATEN ISLAND, NY**
0.027 mi.
140 ft. **Site 6 of 7 in cluster B**

Relative:
Lower

Actual:
15 ft.

NY Hist Spills:
Region of Spill: 2
Spill Number/Closed Date: 9611411 / Not Closed
Investigator: SIGONA
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 12/17/1996 09:46
Reported to Dept Date/Time: 12/17/96 09:46
SWIS: 64
Spiller Name: UNKNOWN
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Contact: D.O.T. GARAGE
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Unknown
Reported to Dept: Air
Water Affected: Not reported
Spill Source: 12
Spill Notifier: DEC
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 12/17/96
Date Spill Entered In Computer Data File: Not reported
Update Date: 12/19/96
Is Updated: False

Tank:

34 WAVE STREET (Continued) **S102235140**

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: GASOLINE VAPORS IN BUILDING.

A12 **BAY ST & WILLIAMS ST** **NY Spills** **S102146357**
WNW **BAY ST & WILLIAMS ST** **NY Hist Spills** **N/A**
< 1/8 **STATEN ISLAND, NY**
0.028 mi.
148 ft. **Site 6 of 15 in cluster A**

Relative:
Higher

Actual:
18 ft.

SPILLS:
Facility ID: 9300284
DER Facility ID: 239534
Facility Type: ER
Site ID: 295998
DEC Region: 2
Spill Date: 4/6/1993
Spill Number/Closed Date: 9300284 / 4/6/1993
Spill Cause: Unknown
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)
SWIS: 4301
Investigator: O'DOWD
Referred To: Not reported
Reported to Dept: 4/6/1993
CID: Not reported
Water Affected: Not reported
Spill Source: Unknown
Spill Notifier: Local Agency
Cleanup Ceased: 4/6/1993
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 4/6/1993
Spill Record Last Update: 7/20/1993
Spiller Name: Not reported
Spiller Company: UNKNOWN
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: HIGH VOLATILE LEVELS OF GASOLINE-TYPE ODORS DISCOV. IN SEWER-NYCDEP

BAY ST & WILLIAMS ST (Continued) **S102146357**

INVESTIGATE & TRACK TO SOURCE-THEN FLUSH LINES-4/6/93 PM,WENT TO SITE TOMMY/ ENZOL/ SAGAR/ DEP HAZMAT A SCENE CHECK SOME SEWERS GOT

Material:

Site ID:	295998
Operable Unit ID:	979035
Operable Unit:	01
Material ID:	401046
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:

NY Hist Spills:

Region of Spill:	2
Spill Number/Closed Date:	9300284 / 04/06/93
Investigator:	O'DOWD
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	04/06/1993 13:30
Reported to Dept Date/Time:	04/06/93 14:21
SWIS:	64
Spiller Name:	UNKNOWN
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Unknown
Reported to Dept:	Air
Water Affected:	Not reported
Spill Source:	12
Spill Notifier:	Local Agency
PBS Number:	Not reported
Cleanup Ceased:	04/06/93
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)

Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /

BAY ST & WILLIAMS ST (Continued) **S102146357**

Date Spill Entered In Computer Data File: 04/06/93
Date Spill Entered In Computer Data File: Not reported
Update Date: 07/20/93
Is Updated: False

Tank:

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: HIGH VOLATILE LEVELS OF GASOLINE-TYPE ODORS DISCOV. IN SEWER-NYCDEP INVESTIGATE TRACK TO SOURCE-THEN FLUSH LINES-4/6/93 PM,WENT TO SITE TOMMY/ ENZOL/ SAGAR/ DEP HAZMAT A SCENE CHECK SOME SEWERS GOT

A13 **EDR US Hist Auto Stat** **1015236273**
NW **15 WILLIAM ST** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.032 mi.
169 ft. **Site 7 of 15 in cluster A**

Relative:
Higher

Actual:
18 ft.

EDR Historical Auto Stations:

Name: JERRY DELUCA COMPLETE AUTO REPR & SVCE CENTER
Year: 1999
Address: 15 WILLIAM ST

Name: JERRY DELUCA COMPLETE AUTO REPR & SVCE CENTER
Year: 2000
Address: 15 WILLIAM ST

Name: DELUCA AUTO REPAIR
Year: 2001
Address: 15 WILLIAM ST

Name: DELUCA AUTO REPAIR
Year: 2002
Address: 15 WILLIAM ST

Name: DELUCA AUTO REPAIR
Year: 2003
Address: 15 WILLIAM ST

Name: DELUCA AUTO REPAIR INC
Year: 2004
Address: 15 WILLIAM ST

Name: JERRY DELUCA COMPLETE AUTO DIAGNOSTI
Year: 2005
Address: 15 WILLIAM ST

(Continued) **1015236273**

Name: JERRY DELUCA COMPLETE AUTO DIAGNOSTI
Year: 2006
Address: 15 WILLIAM ST

Name: DELUCA AUTO REPAIR
Year: 2007
Address: 15 WILLIAM ST

Name: DELUCA AUTO REPAIR
Year: 2008
Address: 15 WILLIAM ST

Name: DELUCA AUTO REPAIR
Year: 2009
Address: 15 WILLIAM ST

Name: JERRY DE LUCA COMPLETE AUTO
Year: 2010
Address: 15 WILLIAM ST

Name: JERRY DELUCA COMPLETE AUTO REPAIR
Year: 2012
Address: 15 WILLIAM ST

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14 **29 BALTIC STREET** **LTANKS** **S100145185**
NNW **29 BALTIC ST** **HIST LTANKS** **N/A**
< 1/8 **NYC, NY**
0.035 mi.
187 ft.

Relative:
Higher

Actual:
18 ft.

LTANKS:
Site ID: 134952
Spill Number/Closed Date: 8804051 / 11/19/1992
Spill Date: 8/8/1988
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: 11/19/1992
Cleanup Meets Standard: False
SWIS: 4301
Investigator: BATTISTA
Referred To: Not reported
Reported to Dept: 8/8/1988
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: 8/23/1988
Spill Record Last Update: 5/12/1994
Spiller Name: MRS CAMRA(CONTACT)
Spiller Company: SAME
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller County: 001

29 BALTIC STREET (Continued) **S100145185**

Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	115859
DEC Memo:	Not reported
Remarks:	25K TANK, HIGH VOUME LEAK, HORNER-EZY. E & I & R.

Material:

Site ID:	134952
Operable Unit ID:	919170
Operable Unit:	01
Material ID:	459572
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

Tank Test:

Site ID:	134952
Spill Tank Test:	1534416
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

HIST LTANKS:

Region of Spill:	2
Spill Number/Closed Date:	8804051 / 11/19/92
Spill Date:	08/08/1988
Spill Time:	13:30
Spill Cause:	Tank Test Failure
Resource Affectd:	Groundwater
Water Affected:	Not reported
Spill Source:	Other Non Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	11/19/92
Cleanup Meets Standard:	False
Investigator:	BATTISTA
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported

29 BALTIC STREET (Continued) **S100145185**

Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 08/08/88
Reported to Department Time: 16:53
SWIS: 64
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: SAME
Spiller Address: Not reported
Spiller City,St,Zip: MRS CAMRA(CONTACT)
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: (718) 727-4639
Facility Extention: Not reported
Spill Notifier: Tank Tester
PBS Number: 2-268275
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 08/23/88
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 05/12/94
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: 0
Test Method: Not reported
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: -1
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Spill Cause: 25K TANK, HIGH VOUME LEAK, HORNER-EZY. E I R.

A15 **EDR US Hist Auto Stat** **1015531555**
South **511 BAY ST** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.036 mi.
189 ft. **Site 8 of 15 in cluster A**

Relative:
Higher

Actual:
17 ft.

EDR Historical Auto Stations:

Name:	HOMEPORT SERVICE STATION INCORPORATED
Year:	1999
Address:	511 BAY ST
Name:	HOMEPORT SERVICE STATION INCORPORATED
Year:	2000
Address:	511 BAY ST
Name:	HOMEPORT SERVICE STATION INC
Year:	2001
Address:	511 BAY ST
Name:	VANBRO MOTORS INC
Year:	2002
Address:	511 BAY ST
Name:	WETLOOK AUTO DETAILING
Year:	2003
Address:	511 BAY ST
Name:	VANBRO MOTORS INC
Year:	2004
Address:	511 BAY ST
Name:	VANBRO MOTORS INC
Year:	2009
Address:	511 BAY ST
Name:	VANBRO MOTORS INC
Year:	2010
Address:	511 BAY ST
Name:	VANBRO MOTORS INC
Year:	2011
Address:	511 BAY ST
Name:	VANBRO MOTORS INC
Year:	2012
Address:	511 BAY ST

A16 **HOMEPORT SERVICE STATION** **LTANKS** **S103037931**
South **511 BAY ST** **HIST LTANKS** **N/A**
< 1/8 **STATEN ISLAND, NY** **MANIFEST**
0.036 mi. **NY Spills**
189 ft. **Site 9 of 15 in cluster A** **NY Hist Spills**

Relative:
Higher

Actual:
17 ft.

LTANKS:

Site ID:	201671
Spill Number/Closed Date:	9713791 / 3/15/2006
Spill Date:	3/12/1998
Spill Cause:	Tank Failure
Spill Source:	Gasoline Station
Spill Class:	Known release that creates potential for fire or hazard. DEC Response.

HOMEPORT SERVICE STATION (Continued) **S103037931**

	Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	4301
Investigator:	DATROMP
Referred To:	Not reported
Reported to Dept:	3/13/1998
CID:	312
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	3/13/1998
Spill Record Last Update:	3/15/2006
Spiller Name:	FRANK SISTO
Spiller Company:	HOMEPORT SERVICE STATION
Spiller Address:	511 BAY ST
Spiller City,St,Zip:	STATEN ISLAND, NY
Spiller County:	001
Spiller Contact:	FRANK SISTO
Spiller Phone:	(718) 815-4223
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	21073
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL"4/12/04-Vought-Spill transferred from Mulqueen to Rommel as per Rommel.10/24/05 - Spill transferred to Central Office. Removal of soil documented.3/15/06 - Spill closed.
Remarks:	caller states when they pulled 12 550 gal ust's and discoveredcontaminated soil - excavated about 25 yards of soil

Material:

Site ID:	201671
Operable Unit ID:	1059747
Operable Unit:	01
Material ID:	324784
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:

Site ID:	390139
Spill Number/Closed Date:	0709111 / Not Closed
Spill Date:	11/20/2007
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial

HOMEPORT SERVICE STATION (Continued) **S103037931**

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:	4301
Investigator:	bkfalvey
Referred To:	Not reported
Reported to Dept:	11/21/2007
CID:	408
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	1
Date Entered In Computer:	11/21/2007
Spill Record Last Update:	7/11/2008
Spiller Name:	MAURICE BANO
Spiller Company:	VANBRO MOTORS INC.
Spiller Address:	511 BAY ST
Spiller City,St,Zip:	STATEN ISLAND, NY 10304
Spiller County:	001
Spiller Contact:	MAURICE BANO
Spiller Phone:	(718) 815-4223
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	339725
DEC Memo:	11/21/07 Sent ttf letter to:Francesco Sisti4250 Galt Ocean DriveFt. Lauderdale, FL 33308-6134Called Kristy Clune of Advanced Tank Services 800-440-8265. She confirmed that there was no vent pipe so they could not maintain vacuum. Ullage failure. bf5/22/2008 Sangesland found an alternate address for the property owner and sent a TTF 2nd notice to:MZD REAL ESTATE CORP.12 DANIELA COURTSTATEN ISLAND, NEW YORK, 10314 5/27/08 Today, received message from Mrs. Sisti (954)563-3647. Returned call. Spoke to Mrs. Sisti and francesco Sisti. They claim the property weas sold 4 years ago and they have no involvement with the business. Maurice vano is the current owner. Registration is not current. The owner, as listed is Francesco Sisti, which is not correct. bf7/2/08 Received call from Jerry Sibbio. Tank was removed. Samples taken. No results yet. Faxed closure application to him 718-448-5671. he will send closure letter when sample results are received. he said no visual contamination was found during removal of tank. bf7/11/08 received massage from J. Sibbio. He does not have Section B of closure application. I faxed application to him aty above fax number. bf
Remarks:	NO APARENT VENT PIPE; ULLATE LEAK; UNABLE TO MAINTAIN VACUME ON THE TANK;

Material:

Site ID:	390139
Operable Unit ID:	1147250
Operable Unit:	01
Material ID:	2137649
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported
Material FA:	Petroleum

HOMEPORT SERVICE STATION (Continued) **S103037931**

Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: 390139
Spill Tank Test: 2365809
Tank Number: Not reported
Tank Size: 550
Test Method: 03
Leak Rate: 0
Gross Fail: Not reported
Modified By: Watchdog
Last Modified: 11/21/2007
Test Method: Horner EZ Check I or II

HIST LTANKS:
Region of Spill: 2
Spill Number/Closed Date: 9713791 / Not Closed
Spill Date: 03/12/1998
Spill Time: 17:00
Spill Cause: Tank Failure
Resource Affectd: On Land
Water Affected: Not reported
Spill Source: Gas Station
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: / /
Cleanup Meets Standard: False
Investigator: MULQUEEN
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 03/13/98
Reported to Department Time: 08:20
SWIS: 64
Spiller Contact: FRANK SISTO
Spiller Phone: (718) 815-4223
Spiller Extention: Not reported
Spiller Name: HOMEPORT SERVICE STATION
Spiller Address: 511 BAY ST
Spiller City,St,Zip: STATEN ISLAND, NY
Spiller Cleanup Date: / /
Facility Contact: FRANK SISTO
Facility Phone: (718) 815-4223
Facility Extention: Not reported
Spill Notifier: Other
PBS Number: Not reported

HOMEPORT SERVICE STATION (Continued) **S103037931**

Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 03/13/98
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 03/13/98
Is Updated: False

Tank:

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Spill Cause: caller states when they pulled 12 550 gal ust s and discovered contaminated soil - excavated about 25 yards of soil

NY MANIFEST:
EPA ID: NYD000702571
Country: USA
Mailing Name: HOMEPORT SERVICE STATION
Mailing Contact: FRANK SIST
Mailing Address: 511 BAY ST
Mailing Address 2: Not reported
Mailing City: STATEN ISLAND
Mailing State: NY
Mailing Zip: 10304
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 516-542-9595

NY MANIFEST:
No Manifest Records Available

SPILLS:
Facility ID: 8905762
DER Facility ID: 373592
Facility Type: ER
Site ID: 202279
DEC Region: 2
Spill Date: 9/12/1989
Spill Number/Closed Date: 8905762 / Not Closed
Spill Cause: Other

HOMEPORT SERVICE STATION (Continued) **S103037931**

Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	4301
Investigator:	TJDEMEO
Referred To:	Not reported
Reported to Dept:	9/12/1989
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station
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:	9/12/1989
Spill Record Last Update:	8/17/2012
Spiller Name:	Not reported
Spiller Company:	ZZZ
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	1/8/04 Reassigned from Sullivan to K Foley. PBS 2-476692. 12X550gal gasoline USTs removed in 2/98. Need to request site assessment report.(KMF)Owner: Francesco Sisti, 4250 Galt Ocean Dr., Ft. Lauderdale, FL 33308-6134.2/5/10 - Austin - Reviewed this spill report, and checked file for other spills at this address. Found # 0709111, assigned to Falvey for a waste oil UST yank. Spoke with Brian, and he will take this spill, and consolidate with #0709111. - End8/17/12 Spill re-assigned to T. Demeo as per RSE. bf
Remarks:	TANKS WERE TESTED, FUMES & CONTAMINATED SOIL FOUND DURING EXCAVATION, FIRE DEPT ISSUED WORK STOPPAGE ORDER, CONTRACTOR WANTS TO GET RID OF CONTAMINATED SOIL.

Material:

Site ID:	202279
Operable Unit ID:	933412
Operable Unit:	01
Material ID:	446170
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:

Facility ID:	8900426
DER Facility ID:	21073

HOMEPORT SERVICE STATION (Continued) **S103037931**

Facility Type:	ER
Site ID:	201670
DEC Region:	2
Spill Date:	4/13/1989
Spill Number/Closed Date:	8900426 / 4/13/1989
Spill Cause:	Unknown
Spill Class:	Not reported
SWIS:	4301
Investigator:	TAYLOR
Referred To:	Not reported
Reported to Dept:	4/14/1989
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Fire Department
Cleanup Ceased:	4/13/1989
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	4/21/1989
Spill Record Last Update:	7/20/2005
Spiller Name:	Not reported
Spiller Company:	UNK
Spiller Address:	Not reported
Spiller City,St,Zip:	***UPDATE***, ZZ
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	4/22/05 From Old spill file: 5/9/89 Gas station # 273-4858, 987-4461PBS #2-476692, 12 X 500gal bare steel tanks (2 diesel, 5 regular gas, 5 unleaded gas)Owner Frank Asisi9/12/89 Violation Order #027670 to Kiran Enterprises. Provide affadavit for pressure test.Ladder Co. 77, (718) 494-425374 Broad St.
Remarks:	NYFD TESTED TWELVE 550 GAL TANKS, 2/14/89. NYFD & SEWER DEPT ON SCENE. THEY FLUSH DOWN SEWER.

Material:

Site ID:	201670
Operable Unit ID:	926724
Operable Unit:	01
Material ID:	451765
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

HOMEPORT SERVICE STATION (Continued) **S103037931**

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

NY Hist Spills:

Region of Spill:	2
Spill Number/Closed Date:	8900426 / 04/13/89
Investigator:	TAYLOR
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	04/13/1989 20:00
Reported to Dept Date/Time:	04/14/89 11:10
SWIS:	64
Spiller Name:	UNK
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Unknown
Reported to Dept:	In Sewer
Water Affected:	Not reported
Spill Source:	12
Spill Notifier:	Fire Department
PBS Number:	Not reported
Cleanup Ceased:	04/13/89
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Not reported
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	04/21/89
Date Spill Entered In Computer Data File:	Not reported
Update Date:	/ /
Is Updated:	False

Tank:

Material:

Material Class Type:	Petroleum
Quantity Spilled:	-1
Unkonwn Quantity Spilled:	False
Units:	Not reported
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	UNKNOWN PETROLEUM
Class Type:	UNKNOWN PETROLEUM
Times Material Entry In File:	16414
CAS Number:	Not reported
Last Date:	19940929

HOMEPORT SERVICE STATION (Continued) **S103037931**

DEC Remarks: 10/10/95: This is additional information about material spilled from the translation of the old spill file: GAS ODORS IN SEWER.
Remark: NYFD TESTED TWELVE 550 GAL TANKS, 2/14/89. NYFD SEWER DEPT ON SCENE. THEY FLUSH DOWN SEWER.

A17 **SERVICE STATION** **RCRA NonGen / NLR** **1000432469**
South **511-517 BAY ST** **FINDS** **NYD000702571**
< 1/8 **STATEN ISLAND, NY 10304**
0.036 mi.
189 ft. **Site 10 of 15 in cluster A**

Relative:
Higher

Actual:
17 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: SERVICE STATION
Facility address: 511-517 BAY ST
STATEN ISLAND, NY 103043817
EPA ID: NYD000702571
Mailing address: BAY ST
STATEN ISLAND, NY 10304
Contact: Not reported
Contact address: BAY ST
STATEN ISLAND, NY 10304
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: SUN OIL COMPANY OF PENNSYLVANIA
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: SUN OIL COMPANY OF PENNSYLVANIA
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

SERVICE STATION (Continued) **1000432469**

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
Facility name: SERVICE STATION
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: SERVICE STATION
Classification: Not a generator, verified

Date form received by agency: 08/18/1980
Facility name: SERVICE STATION
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004329600

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.

A18 **BAY ST & WAVE ST/S.I/GULF** **NY Hist Spills** **S103560310**
South **BAY STREET / WAVE STREET** **N/A**
< 1/8 **NEW YORK CITY, NY**
0.036 mi.
189 ft. **Site 11 of 15 in cluster A**

Relative:
Higher

Actual:
17 ft.

NY Hist Spills:
Region of Spill: 2
Spill Number/Closed Date: 8905762 / Not Closed
Investigator: SULLIVAN
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 09/12/1989 09:15
Reported to Dept Date/Time: 09/12/89 11:10
SWIS: 64
Spiller Name: GULF

BAY ST & WAVE ST/S.I/GULF (Continued) **S103560310**

Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Other
Reported to Dept:	Groundwater
Water Affected:	Not reported
Spill Source:	05
Spill Notifier:	Other
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	09/12/89
Date Spill Entered In Computer Data File:	Not reported
Update Date:	08/09/95
Is Updated:	False

Tank:

Material:

Material Class Type:	Petroleum
Quantity Spilled:	-1
Unkonwn Quantity Spilled:	False
Units:	Not reported
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	GASOLINE
Class Type:	GASOLINE
Times Material Entry In File:	21329
CAS Number:	Not reported
Last Date:	19940929
DEC Remarks:	Not reported
Remark:	TANKS WERE TESTED, FUMES CONTAMINATED SOIL FOUND DURING EXCAVATION, FIRE DEPT ISSUED WORK STOPPAGE ORDER, CONTRACTOR WANTS TO GET RID OF CONTAMINATED SOIL.

A19 **HOME PORT SER ST INC.** **UST** **U001840815**
South **511 BAY STREET** **HIST UST** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.036 mi.
189 ft. **Site 12 of 15 in cluster A**

Relative:
Higher

Actual:
17 ft.

UST:

Id/Status:	2-476692 / Unregulated
Region:	STATE
DEC Region:	2
Program Type:	PBS
Expiration Date:	N/A
UTM X:	578074.17362000002
UTM Y:	4498031.1204899997

HOME PORT SER ST INC. (Continued) **U001840815**

Affiliation Records:

Site Id:	21115
Affiliation Type:	Owner
Company Name:	FRANCESCO SISTI
Contact Type:	PRESIDENT
Contact Name:	FRANCESCO SISTI
Address1:	4250 GALT OCEAN DR.
Address2:	Not reported
City:	FT. LAUDERDALE
State:	FL
Zip Code:	33308-6134
Country Code:	001
Phone:	(954) 563-3647
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/29/2011

Site Id:	21115
Affiliation Type:	Mail Contact
Company Name:	HOME PORT SER ST INC.
Contact Type:	Not reported
Contact Name:	FRANCESCO SISTI
Address1:	511 BAY STREET
Address2:	Not reported
City:	STATEN ISLAND
State:	NY
Zip Code:	10304
Country Code:	001
Phone:	(594) 563-3647
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	cgfreedm
Date Last Modified:	5/4/2004

Site Id:	21115
Affiliation Type:	On-Site Operator
Company Name:	HOME PORT SER ST INC.
Contact Type:	Not reported
Contact Name:	FRANCESCO SISTI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NY
Zip Code:	Not reported
Country Code:	001
Phone:	(954) 563-3647
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	11/1/2007

Site Id:	21115
Affiliation Type:	Emergency Contact

HOME PORT SER ST INC. (Continued) **U001840815**

Company Name:	FRANCESCO SISTI
Contact Type:	Not reported
Contact Name:	MARICE VANBRO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 815-4223
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	11/1/2007

Tank Info:

Site ID:	21115
Tank Number:	001
Tank ID:	38104
Tank Status:	Closed - Removed
Tank Type:	Steel/carbon steel
Pipe Model:	Not reported

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground

Install Date:	02/01/1998
Capacity Gallons:	550
Tightness Test Method:	02
Next Test Date:	Not reported
Date Tank Closed:	02/01/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	10/01/1989
Registered:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Site ID:	21115
Tank Number:	002
Tank ID:	38105
Tank Status:	Closed - Removed
Tank Type:	Steel/carbon steel
Pipe Model:	Not reported

Equipment Records:

A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None

HOME PORT SER ST INC. (Continued) **U001840815**

B00 - Tank External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground

Install Date: 02/01/1998
Capacity Gallons: 550
Tightness Test Method: 02
Next Test Date: Not reported
Date Tank Closed: 02/01/1998
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: 10/01/1989
Registered: True
Modified By: TRANSLAT
Last Modified: 03/04/2004

Site ID: 21115

Tank Number: 003
Tank ID: 38106
Tank Status: Closed - Removed
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None

Install Date: 02/01/1998
Capacity Gallons: 550
Tightness Test Method: 02
Next Test Date: Not reported
Date Tank Closed: 02/01/1998
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: 10/01/1989
Registered: True
Modified By: TRANSLAT
Last Modified: 03/04/2004

Site ID: 21115

Tank Number: 004
Tank ID: 38107
Tank Status: Closed - Removed
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

HOME PORT SER ST INC. (Continued) **U001840815**

H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground

Install Date:	02/01/1998
Capacity Gallons:	550
Tightness Test Method:	02
Next Test Date:	Not reported
Date Tank Closed:	02/01/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	10/01/1989
Registered:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Site ID:	21115
Tank Number:	005
Tank ID:	38108
Tank Status:	Closed - Removed
Tank Type:	Steel/carbon steel
Pipe Model:	Not reported

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None

Install Date:	02/01/1998
Capacity Gallons:	550
Tightness Test Method:	02
Next Test Date:	Not reported
Date Tank Closed:	02/01/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	10/01/1989
Registered:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Site ID:	21115
Tank Number:	006
Tank ID:	38109
Tank Status:	Closed - Removed
Tank Type:	Steel/carbon steel
Pipe Model:	Not reported

HOME PORT SER ST INC. (Continued) **U001840815**

Equipment Records:
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None

Install Date:	02/01/1998
Capacity Gallons:	550
Tightness Test Method:	02
Next Test Date:	Not reported
Date Tank Closed:	02/01/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	10/01/1989
Registered:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Site ID:	21115
Tank Number:	007
Tank ID:	38110
Tank Status:	Closed - Removed
Tank Type:	Steel/carbon steel
Pipe Model:	Not reported

Equipment Records:
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None

Install Date:	02/01/1998
Capacity Gallons:	550
Tightness Test Method:	02
Next Test Date:	Not reported
Date Tank Closed:	02/01/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	10/01/1989
Registered:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Site ID:	21115
Tank Number:	008
Tank ID:	38111
Tank Status:	Closed - Removed

HOME PORT SER ST INC. (Continued) **U001840815**

Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None

Install Date: 02/01/1998
Capacity Gallons: 550
Tightness Test Method: 02
Next Test Date: Not reported
Date Tank Closed: 02/01/1998
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: 10/01/1989
Registered: True
Modified By: TRANSLAT
Last Modified: 03/04/2004

Site ID: 21115

Tank Number: 009
Tank ID: 38112
Tank Status: Closed - Removed
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground

Install Date: 02/01/1998
Capacity Gallons: 550
Tightness Test Method: 02
Next Test Date: Not reported
Date Tank Closed: 02/01/1998
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: 10/01/1989
Registered: True
Modified By: TRANSLAT
Last Modified: 03/04/2004

Site ID: 21115

Tank Number: 010

HOME PORT SER ST INC. (Continued) **U001840815**

Tank ID: 38113
Tank Status: Closed - Removed
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None

Install Date: 02/01/1998
Capacity Gallons: 550
Tightness Test Method: 02
Next Test Date: Not reported
Date Tank Closed: 02/01/1998
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: 10/01/1989
Registered: True
Modified By: TRANSLAT
Last Modified: 03/04/2004

Site ID: 21115

Tank Number: 011
Tank ID: 38114
Tank Status: Closed - Removed
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground

Install Date: 02/01/1998
Capacity Gallons: 550
Tightness Test Method: 02
Next Test Date: Not reported
Date Tank Closed: 02/01/1998
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: 10/01/1989
Registered: True
Modified By: TRANSLAT
Last Modified: 03/04/2004

Site ID: 21115

HOME PORT SER ST INC. (Continued) **U001840815**

Tank Number: 012
Tank ID: 38115
Tank Status: Closed - Removed
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
I00 - Overfill - None

Install Date: 02/01/1998
Capacity Gallons: 550
Tightness Test Method: 02
Next Test Date: Not reported
Date Tank Closed: 02/01/1998
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: 10/01/1989
Registered: True
Modified By: TRANSLAT
Last Modified: 03/04/2004

Site ID: 21115

Tank Number: 013
Tank ID: 51476
Tank Status: Tank Converted to Non-Regulated Use
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
H99 - Tank Leak Detection - Other
B00 - Tank External Protection - None
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None

Install Date: Not reported
Capacity Gallons: 550
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: 08/01/1996
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Registered: True
Modified By: TRANSLAT
Last Modified: 03/04/2004

HOME PORT SER ST INC. (Continued) **U001840815**

Site ID: 21115

Tank Number: 014
Tank ID: 51477
Tank Status: Closed - Removed
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
F00 - Pipe External Protection - None
I00 - Overfill - None
A01 - Tank Internal Protection - Epoxy Liner
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
C02 - Pipe Location - Underground/On-ground

Install Date: Not reported
Capacity Gallons: 550
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: 07/08/2008
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Registered: True
Modified By: NRLOMBAR
Last Modified: 03/29/2011

HIST UST:
PBS Number: 2-476692
SPDES Number: Not reported
Emergency Contact: FRANCESCO SISTI
Emergency Telephone: (718) 987-4461
Operator: KIRAN ENTERPRISES INC
Operator Telephone: (718) 734-4858
Owner Name: FRANCESCO SISTI
Owner Address: 191 SEAVER AVENUE
Owner City,St,Zip: STATEN ISLAND, NY 10305
Owner Telephone: (718) 815-4223
Owner Type: Not reported
Owner Subtype: Not reported
Mailing Name: BAY STREET SERVICE STATION, INC.
Mailing Address: 511 BAY STREET
Mailing Address 2: Not reported
Mailing City,St,Zip: STATEN ISLAND, NY 10304
Mailing Contact: FRANCISCO SISTI
Mailing Telephone: (718) 815-4223
Owner Mark: First Owner
Facility Status: 4 - Subpart 360-14 only (active)
Facility Addr2: 511 BAY STREET
SWIS ID: 6401
Old PBS Number: Not reported
Facility Type: Not reported
Inspected Date: Not reported
Inspector: Not reported

HOME PORT SER ST INC. (Continued) **U001840815**

Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	09/19/1996
Expiration Date:	06/22/1999
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	550
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:	64
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19980201
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
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:	None
Dispenser:	Suction
Date Tested:	10/01/1989
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	02/01/1998
Test Method:	Tank Auditor
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19980201
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON

HOME PORT SER ST INC. (Continued) **U001840815**

Pipe Internal: None
Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: None
Dispenser: Suction
Date Tested: 10/01/1989
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 02/01/1998
Test Method: Tank Auditor
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 003
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19980201
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
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: None
Dispenser: Suction
Date Tested: 10/01/1989
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 02/01/1998
Test Method: Tank Auditor
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 004
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19980201
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
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

HOME PORT SER ST INC. (Continued) **U001840815**

Leak Detection: None
Overfill Prot: None
Dispenser: Suction
Date Tested: 10/01/1989
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 02/01/1998
Test Method: Tank Auditor
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 005
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19980201
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: None
Pipe Location: None
Pipe Type: GALVANIZED STEEL
Pipe Internal: Epoxy Liner
Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: None
Dispenser: Suction
Date Tested: 10/01/1989
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 02/01/1998
Test Method: Tank Auditor
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 006
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19980201
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
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: None
Dispenser: Suction

HOME PORT SER ST INC. (Continued) **U001840815**

Date Tested: 10/01/1989
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 02/01/1998
Test Method: Tank Auditor
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 007
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19980201
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: None
Pipe Location: None
Pipe Type: GALVANIZED STEEL
Pipe Internal: Epoxy Liner
Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: None
Dispenser: Suction
Date Tested: 10/01/1989
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 02/01/1998
Test Method: Tank Auditor
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 008
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19980201
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
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: None
Dispenser: Suction
Date Tested: 10/01/1989
Next Test Date: Not reported
Missing Data for Tank: No Missing Data

HOME PORT SER ST INC. (Continued) **U001840815**

Date Closed:	02/01/1998
Test Method:	Tank Auditor
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	009
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19980201
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
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:	None
Dispenser:	Suction
Date Tested:	10/01/1989
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	02/01/1998
Test Method:	Tank Auditor
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	010
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19980201
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
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:	None
Dispenser:	Suction
Date Tested:	10/01/1989
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	02/01/1998
Test Method:	Tank Auditor
Deleted:	False

HOME PORT SER ST INC. (Continued) **U001840815**

Updated: True
Lat/long: Not reported

Tank Id: 011
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19980201
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
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: None
Dispenser: Suction
Date Tested: 10/01/1989
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 02/01/1998
Test Method: Tank Auditor
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 012
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19980201
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: None
Pipe Location: Aboveground
Pipe Type: GALVANIZED STEEL
Pipe Internal: None
Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: None
Dispenser: Suction
Date Tested: 10/01/1989
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 02/01/1998
Test Method: Tank Auditor
Deleted: False
Updated: True
Lat/long: Not reported

HOME PORT SER ST INC. (Continued) **U001840815**

Tank Id:	013
Tank Location:	UNDERGROUND
Tank Status:	Tank Converted To Non-Regulated Use
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Underground
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Not reported
Leak Detection:	Double Bottom
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	08/01/1996
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	014
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	USED OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
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:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

A20
South
< 1/8
0.037 mi.
193 ft.

510 BAY ST
STATEN ISLAND, NY 10304

Site 13 of 15 in cluster A

EDR US Hist Auto Stat **1015530470**
N/A

Relative:
Higher

Actual:
17 ft.

EDR Historical Auto Stations:

Name:	TURE AUTO REPAIR
Year:	2008
Address:	510 BAY ST
Name:	TURE AUTO REPAIR
Year:	2009
Address:	510 BAY ST

21
East
< 1/8
0.040 mi.
212 ft.

MARINE COMPANY 9
305 FRONT STREET
STATEN ISLAND, NY 10304

AST **S107782692**
HIST AST **N/A**

Relative:
Lower

Actual:
10 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Facility Id:	2-600581
Program Type:	PBS
UTM X:	578227.85334000003
UTM Y:	4498040.8915600004
Expiration Date:	N/A

Affiliation Records:

Site Id:	22562
Affiliation Type:	Owner
Company Name:	FIRE DEPARTMENT
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	9 METROTECH
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11201-3857
Country Code:	001
Phone:	(718) 999-2094
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	12/29/2009
Site Id:	22562
Affiliation Type:	Mail Contact
Company Name:	FIRE DEPARTMENT
Contact Type:	Not reported
Contact Name:	DIRECTOR; BLDGS MAINT DIV
Address1:	48-34 35TH STREET
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101

MARINE COMPANY 9 (Continued) **S107782692**

Country Code:	001
Phone:	(718) 784-6510
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	22562
Affiliation Type:	On-Site Operator
Company Name:	MARINE COMPANY 9
Contact Type:	Not reported
Contact Name:	COMPANY OFFICER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 494-4269
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	22562
Affiliation Type:	Emergency Contact
Company Name:	FIRE DEPARTMENT
Contact Type:	Not reported
Contact Name:	EOC/NOTIFICATION DESK
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 999-2094
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	8/23/2012

Tank Info:

Tank Number:	001
Tank Id:	43040

Equipment Records:

D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
I05 - Overfill - Vent Whistle
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

MARINE COMPANY 9 (Continued) **S107782692**

A00 - Tank Internal Protection - None
J02 - Dispenser - Suction

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	06/01/1947
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

HIST AST:

PBS Number:	2-600581
SWIS Code:	6401
Operator:	COMPANY OFFICER
Facility Phone:	(718) 494-4269
Facility Addr2:	STATEN ISLAND HOMEPORT, BLDG. #4
Facility Type:	OTHER
Emergency:	EOC/NOTIFICATION DESK
Emergency Tel:	(718) 999-2094
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	FIRE DEPARTMENT
Owner Address:	9 METROTECH
Owner City,St,Zip:	BROOKLYN, NY 11201-3857
Federal ID:	Not reported
Owner Tel:	(718) 999-2094
Owner Type:	Local Government
Owner Subtype:	Not reported
Mailing Contact:	DIRECTOR; BLDGS MAINT DIV
Mailing Name:	FIRE DEPARTMENT
Mailing Address:	48-34 35TH STREET
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LONG ISLAND CITY, NY 11101
Mailing Telephone:	(718) 784-6510
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Certification Flag:	False
Certification Date:	05/11/2001
Expiration:	12/27/2001
Renew Flag:	False
Renew 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

MARINE COMPANY 9 (Continued) **S107782692**

Town or City:	NEW YORK CITY
County Code:	64
Town or City Code:	01
Region:	2
Tank ID:	001
Tank Location:	ABOVEGROUND
Tank Status:	Closed-Removed
Install Date:	19470601
Capacity (Gal):	10000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	0
Pipe Location:	None
Pipe Type:	NONE
Pipe Internal:	None
Pipe External:	0
Tank Containment:	None
Leak Detection:	0
Overfill Protection:	6
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

C22 **NEW STAPLETON WATERFRONT** **RCRA-LQG** **1014958328**
ESE **FRONT & WAVE ST** **NYR000195768**
< 1/8 **STATEN ISLAND, NY 10304**
0.041 mi.
218 ft. **Site 1 of 10 in cluster C**

Relative:
Lower

Actual:
10 ft.

RCRA-LQG:

Date form received by agency:	07/26/2012
Facility name:	NEW STAPLETON WATERFRONT
Facility address:	FRONT & WAVE ST THOMPSON ST TO BALTIC ST STATEN ISLAND, NY 10304
EPA ID:	NYR000195768
Mailing address:	CANAL ST STATEN ISLAND, NY 10304
Contact:	BRIAN M PENDERGAST
Contact address:	WEST AVE PATCHOGUE, NY 11772
Contact country:	US
Contact telephone:	(631) 475-0020
Contact email:	PENDYENVENG@OPTONLINE.NET
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

NEW STAPLETON WATERFRONT (Continued) **1014958328**

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 ECONOMIC DEVELOPMENT CORP
Owner/operator address:	WILLIAM ST 4TH FL NEW YORK, NY 10038
Owner/operator country:	US
Owner/operator telephone:	(212) 312-3748
Legal status:	Municipal
Owner/Operator Type:	Operator
Owner/Op start date:	06/01/1995
Owner/Op end date:	Not reported

Owner/operator name:	NYC ECONOMIC DEVELOPMENT CORP
Owner/operator address:	WILLIAM ST 4TH FL NEW YORK, NY 10038
Owner/operator country:	US
Owner/operator telephone:	(212) 312-3748
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	06/01/1995
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

Hazardous Waste Summary:

Waste code:	D008
Waste name:	LEAD

Violation Status: No violations found

A23
SW
< 1/8
0.044 mi.
232 ft.

NY Spills **S104648173**
NY Hist Spills **N/A**

73 WAVE ST
STATEN ISLAND, NY

Site 14 of 15 in cluster A

Relative:
Higher

Actual:
18 ft.

SPILLS:

Facility ID:	9810339
DER Facility ID:	113183
Facility Type:	ER
Site ID:	131368
DEC Region:	2
Spill Date:	11/14/1998
Spill Number/Closed Date:	9810339 / 11/3/2003
Spill Cause:	Deliberate
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	4301
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	11/16/1998
CID:	211
Water Affected:	Not reported
Spill Source:	Gasoline Station
Spill Notifier:	Federal Government
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:	11/16/1998
Spill Record Last Update:	11/3/2003
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	73 WAVE ST
Spiller City,St,Zip:	STATEN ISLAND, 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 "AUSTIN"11/3/03 - AUSTIN - VAGUE COMPLAINT REF. TO US BY USEPA, WITH NO COMPLAINANT CALLBACK NAME/# - CLOSED - ORIG. ASSIGNED TO MULQUEEN - END
Remarks:	HAS BEEN GOING ON 1 MTH - SITE IS AUTOMOTIVE REPAIR SHOP

Material:

Site ID:	131368
Operable Unit ID:	1067608
Operable Unit:	01
Material ID:	314210
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

(Continued) **S104648173**

Tank Test:

NY Hist Spills:

Region of Spill:	2
Spill Number/Closed Date:	9810339 / Not Closed
Investigator:	MULQUEEN
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	11/14/1998 12:00
Reported to Dept Date/Time:	11/16/98 14:10
SWIS:	64
Spiller Name:	Not reported
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	73 WAVE ST
Spiller City,St,Zip:	STATEN ISLAND, NY
Spill Cause:	Deliberate
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	05
Spill Notifier:	Federal Government
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	11/16/98
Date Spill Entered In Computer Data File:	Not reported
Update Date:	11/19/98
Is Updated:	False

Tank:

Material:

Material Class Type:	Petroleum
Quantity Spilled:	0
Unkonwn Quantity Spilled:	True
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	WASTE OIL
Class Type:	WASTE OIL
Times Material Entry In File:	9509
CAS Number:	Not reported

(Continued) **S104648173**

Last Date: 19940927
DEC Remarks: Not reported
Remark: HAS BEEN GOING ON 1 MTH - SITE IS AUTOMOTIVE REPAIR SHOP

A24 **EDR US Hist Auto Stat** **1015604387**
SSW **70 WAVE ST** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.044 mi.
232 ft. **Site 15 of 15 in cluster A**

Relative:
Higher

Actual:
18 ft.

EDR Historical Auto Stations:
Name: WAVE AUTO DETAILING
Year: 2001
Address: 70 WAVE ST

C25 **NAVSTA N Y FORT WADSWORTH** **RCRA NonGen / NLR** **1000387480**
ESE **FORT WADSWORTH** **PADS** **NY2170084485**
< 1/8 **STATEN ISLAND, NY 10305** **MANIFEST**
0.049 mi.
261 ft. **Site 2 of 10 in cluster C**

Relative:
Lower

Actual:
10 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: NAVSTA N Y FORT WADSWORTH
Facility address: FORT WADSWORTH
STATEN ISLAND, NY 10305
EPA ID: NY2170084485
Mailing address: FLUSHING AVE
BROOKLYN, NY 11251
Contact: Not reported
Contact address: FLUSHING AVE
BROOKLYN, NY 11251
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: NAVAL STATION NY
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Federal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NAVAL STATION NY
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212

NAVSTA N Y FORT WADSWORTH (Continued) **1000387480**

Legal status: Federal
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
Facility name: NAVSTA N Y FORT WADSWORTH
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: NAVSTA N Y FORT WADSWORTH
Classification: Not a generator, verified

Date form received by agency: 06/20/1996
Facility name: NAVSTA N Y FORT WADSWORTH
Site name: DEPARTMENT OF THE NAVY
Classification: Large Quantity Generator

Date form received by agency: 03/29/1994
Facility name: NAVSTA N Y FORT WADSWORTH
Site name: NAVAL STATION NEW YORK
Classification: Large Quantity Generator

Date form received by agency: 10/16/1987
Facility name: NAVSTA N Y FORT WADSWORTH
Classification: Large Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 04/06/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

PADS:
EPAID: NY2170084485

NAVSTA N Y FORT WADSWORTH (Continued) **1000387480**

Facility name:	Fort Wadsworth
Facility Address:	FT WADSWORTH
	STATEN ISLAND, NY 10305
Facility country:	US
Generator:	Yes
Storer:	No
Transporter:	No
Disposer:	No
Research facility:	No
Smelter:	No
Facility owner name:	US Dept. Interior
Contact title:	Not reported
Contact name:	John Dexter
Contact tel:	(718)354-4614
Contact extension:	Not reported
Mailing address:	National Park Service, Gateway Nati
	Brooklyn, NY 11234
Mailing country:	US
Cert. title:	Not reported
Cert. name:	Not reported
Cert. date:	4/5/1990
Date received:	5/29/1990

NY MANIFEST:

EPA ID:	NY2170084485
Country:	USA
Mailing Name:	UNITED STATES MILITARY
Mailing Contact:	UNITED STATES MILITARY
Mailing Address:	109 MONT SEC AVE
Mailing Address 2:	Not reported
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10305
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	000-000-0000

Document ID:	NJA1459228
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS869
Trans2 State ID:	Not reported
Generator Ship Date:	920803
Trans1 Recv Date:	920803
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	920803
Part A Recv Date:	Not reported
Part B Recv Date:	920814
Generator EPA ID:	NY2170084485
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00086
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels

NAVSTA N Y FORT WADSWORTH (Continued) **1000387480**

Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00036
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:	92

Document ID:	NJA1361268
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS869
Trans2 State ID:	Not reported
Generator Ship Date:	921026
Trans1 Recv Date:	921026
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	921026
Part A Recv Date:	Not reported
Part B Recv Date:	921110
Generator EPA ID:	NY2170084485
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00086
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
Waste Code:	Not reported
Quantity:	00036
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:	92

Document ID:	NJA1359373
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS869
Trans2 State ID:	Not reported
Generator Ship Date:	921124
Trans1 Recv Date:	921124
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	921124
Part A Recv Date:	Not reported
Part B Recv Date:	921209
Generator EPA ID:	NY2170084485
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093

NAVSTA N Y FORT WADSWORTH (Continued) **1000387480**

Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00086
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00036
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	92

Document ID:	NJA2060174
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS869
Trans2 State ID:	Not reported
Generator Ship Date:	950118
Trans1 Recv Date:	950118
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950118
Part A Recv Date:	950126
Part B Recv Date:	950207
Generator EPA ID:	NY2170084485
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00014
Units:	G - Gallons (liquids only)* (8.3 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
Waste Code:	Not reported
Quantity:	00015
Units:	G - Gallons (liquids only)* (8.3 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
Waste Code:	Not reported
Quantity:	00006
Units:	G - Gallons (liquids only)* (8.3 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:	95

Document ID:	NYB6761349
Manifest Status:	Completed copy

NAVSTA N Y FORT WADSWORTH (Continued) **1000387480**

Trans1 State ID:	TY21801PA
Trans2 State ID:	Not reported
Generator Ship Date:	950908
Trans1 Recv Date:	950908
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950912
Part A Recv Date:	951004
Part B Recv Date:	950921
Generator EPA ID:	NY2170084485
Trans1 EPA ID:	PAD146714878
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	22535
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	95

Document ID:	NYB5551515
Manifest Status:	Completed copy
Trans1 State ID:	TY14548
Trans2 State ID:	Not reported
Generator Ship Date:	950913
Trans1 Recv Date:	950913
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950914
Part A Recv Date:	951004
Part B Recv Date:	950925
Generator EPA ID:	NY2170084485
Trans1 EPA ID:	PAD146714878
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	06931
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	95

Document ID:	NYB6761421
Manifest Status:	Completed copy
Trans1 State ID:	TN74987PA
Trans2 State ID:	Not reported
Generator Ship Date:	950911
Trans1 Recv Date:	950911
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950912
Part A Recv Date:	951004
Part B Recv Date:	950921
Generator EPA ID:	NY2170084485

NAVSTA N Y FORT WADSWORTH (Continued) **1000387480**

Trans1 EPA ID:	PAD146714878
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	21872
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	95

Document ID:	NYB7881993
Manifest Status:	Completed copy
Trans1 State ID:	PATY30445
Trans2 State ID:	Not reported
Generator Ship Date:	950912
Trans1 Recv Date:	950912
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950913
Part A Recv Date:	951004
Part B Recv Date:	950925
Generator EPA ID:	NY2170084485
Trans1 EPA ID:	PAD146714878
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	22671
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	95

Document ID:	NYB7922034
Manifest Status:	Completed copy
Trans1 State ID:	XA61009PA
Trans2 State ID:	Not reported
Generator Ship Date:	950908
Trans1 Recv Date:	950908
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950911
Part A Recv Date:	951004
Part B Recv Date:	950920
Generator EPA ID:	NY2170084485
Trans1 EPA ID:	PAD146714878
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B009 - OTHER PCB WASTES (SEE B007)
Quantity:	19486
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.

NAVSTA N Y FORT WADSWORTH (Continued) **1000387480**

Specific Gravity: 100
Year: 95

Document ID: NYB1038888
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: PTD5832
Trans2 State ID: Not reported
Generator Ship Date: 890915
Trans1 Recv Date: 890915
Trans2 Recv Date: Not reported
TSD Site Recv Date: 890925
Part A Recv Date: 891025
Part B Recv Date: 891018
Generator EPA ID: NY2170084485
Trans1 EPA ID: MND980791321
Trans2 EPA ID: Not reported
TSDF ID: KSD980964993
Waste Code: B004 - PCB ARTICLES WITH 50 PPM BUT < 500 PPM
Quantity: 00380
Units: P - Pounds
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 100
Year: 89

Document ID: NJA1367984
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: NJDEPS869
Trans2 State ID: Not reported
Generator Ship Date: 920929
Trans1 Recv Date: 920929
Trans2 Recv Date: Not reported
TSD Site Recv Date: 920930
Part A Recv Date: Not reported
Part B Recv Date: 930305
Generator EPA ID: NY2170084485
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NJD000768093
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00086
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 00036
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 92

NAVSTA N Y FORT WADSWORTH (Continued) **1000387480**

Document ID:	NJA1448451
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS869
Trans2 State ID:	Not reported
Generator Ship Date:	920903
Trans1 Recv Date:	920903
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	920903
Part A Recv Date:	Not reported
Part B Recv Date:	920922
Generator EPA ID:	NY2170084485
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NJD000768093
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00086
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
Waste Code:	Not reported
Quantity:	00036
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	92

Document ID:	ARA7175520
Manifest Status:	Completed copy
Trans1 State ID:	PC0902H20
Trans2 State ID:	Not reported
Generator Ship Date:	950525
Trans1 Recv Date:	950525
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950603
Part A Recv Date:	Not reported
Part B Recv Date:	950614
Generator EPA ID:	NY2170084485
Trans1 EPA ID:	OHD009865825
Trans2 EPA ID:	Not reported
TSDF ID:	ARD069748192
Waste Code:	F003 - UNKNOWN
Quantity:	01730
Units:	P - Pounds
Number of Containers:	010
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00173
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)

NAVSTA N Y FORT WADSWORTH (Continued) **1000387480**

Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00173
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:	Not reported
Quantity:	00173
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:	Not reported
Quantity:	00346
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00519
Units:	P - Pounds
Number of Containers:	003
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95

Document ID:	ARA7175520
Manifest Status:	Completed copy
Trans1 State ID:	PC0902H20
Trans2 State ID:	Not reported
Generator Ship Date:	950525
Trans1 Recv Date:	950525
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950603
Part A Recv Date:	Not reported
Part B Recv Date:	950614
Generator EPA ID:	NY2170084485
Trans1 EPA ID:	OHD009865825
Trans2 EPA ID:	Not reported
TSDF ID:	ARD069748192
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00346
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95

NAVSTA N Y FORT WADSWORTH (Continued) **1000387480**

Document ID:	NYB1041588
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	PTD5832
Trans2 State ID:	Not reported
Generator Ship Date:	900713
Trans1 Recv Date:	900713
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	900718
Part A Recv Date:	900815
Part B Recv Date:	910520
Generator EPA ID:	NY2170084485
Trans1 EPA ID:	MND980791321
Trans2 EPA ID:	Not reported
TSDF ID:	KSD980964993
Waste Code:	B004 - PCB ARTICLES WITH 50 PPM BUT < 500 PPM
Quantity:	00511
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	003
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	90

Document ID:	NYB7104924
Manifest Status:	Completed copy
Trans1 State ID:	TV40941PA
Trans2 State ID:	Not reported
Generator Ship Date:	950912
Trans1 Recv Date:	950912
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950913
Part A Recv Date:	951004
Part B Recv Date:	950925
Generator EPA ID:	NY2170084485
Trans1 EPA ID:	PAD146714878
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	23106
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	95

Document ID:	NYB6761322
Manifest Status:	Completed copy
Trans1 State ID:	T430468PA
Trans2 State ID:	Not reported
Generator Ship Date:	950908
Trans1 Recv Date:	950908
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950912
Part A Recv Date:	951004

NAVSTA N Y FORT WADSWORTH (Continued) **1000387480**

Part B Recv Date:	950921
Generator EPA ID:	NY2170084485
Trans1 EPA ID:	PAD146714878
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	21201
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	95

Document ID:	NYB7922079
Manifest Status:	Completed copy
Trans1 State ID:	XA73509PA
Trans2 State ID:	Not reported
Generator Ship Date:	950908
Trans1 Recv Date:	950908
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950911
Part A Recv Date:	951004
Part B Recv Date:	950920
Generator EPA ID:	NY2170084485
Trans1 EPA ID:	PAD146714878
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	50140
Units:	P - Pounds
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	95

Document ID:	NYB6754788
Manifest Status:	Completed copy
Trans1 State ID:	TY30444PA
Trans2 State ID:	Not reported
Generator Ship Date:	950908
Trans1 Recv Date:	950908
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950911
Part A Recv Date:	951004
Part B Recv Date:	950920
Generator EPA ID:	NY2170084485
Trans1 EPA ID:	PAD146714878
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	16411
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001

NAVSTA N Y FORT WADSWORTH (Continued) **1000387480**

Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	95

Document ID:	NYB7922052
Manifest Status:	Completed copy
Trans1 State ID:	TZ47345PA
Trans2 State ID:	Not reported
Generator Ship Date:	950908
Trans1 Recv Date:	950908
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950911
Part A Recv Date:	951004
Part B Recv Date:	950920
Generator EPA ID:	NY2170084485
Trans1 EPA ID:	PAD146714878
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	21410
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	95

Click this hyperlink while viewing on your computer to access
83 additional NY_MANIFEST: record(s) in the EDR Site Report.

C26 **STATEN ISLAND HOME PORT** **NY Hist Spills** **S105056928**
ESE **355 FRONT ST** **N/A**
< 1/8 **STATEN ISLAND, NY**
0.050 mi.
266 ft. **Site 3 of 10 in cluster C**

Relative:
Lower

Actual:
10 ft.

NY Hist Spills:

Region of Spill:	2
Spill Number/Closed Date:	0101067 / Not Closed
Investigator:	DEMEO
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	04/26/2001 12:00
Reported to Dept Date/Time:	04/27/01 13:15
SWIS:	64
Spiller Name:	NYC
Spiller Contact:	SAME
Spiller Phone:	Not reported
Spiller Contact:	WASHINGTON INFERSTRUCTURE
Spiller Phone:	(212) 839-1159
Spiller Address:	3330 THOMPSON AVE
Spiller City,St,Zip:	LONG ISLAND, NY -

STATEN ISLAND HOME PORT (Continued) **S105056928**

Spill Cause:	Unknown
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	12
Spill Notifier:	Other
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	04/27/01
Date Spill Entered In Computer Data File:	Not reported
Update Date:	04/30/01
Is Updated:	False

Tank:

Material:

Material Class Type:	Petroleum
Quantity Spilled:	0
Unkonwn Quantity Spilled:	True
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	True
Material:	DIESEL
Class Type:	DIESEL
Times Material Entry In File:	10625
CAS Number:	Not reported
Last Date:	19940728
DEC Remarks:	Not reported
Remark:	SOIL SAMPLES TAKEN AT ABOVE LOCAITON REVEAL CONTAMINATION. AREA BEING EXCAVATED AND TO BE STOCK PILED ON SITE. FURTHER TESTING TO BE DONE.

C27 **NAVAL STATION SAPLETON** **CERC-NFRAP** **1000148328**
ESE **355 FRONT STREET** **RCRA NonGen / NLR** **NYD982277295**
< 1/8 **STATEN ISLAND, NY 10305** **FINDS**
0.050 mi. **MANIFEST**
266 ft. **Site 4 of 10 in cluster C**

Relative:
Lower

Actual:
10 ft.

CERC-NFRAP:

Site ID:	0203752
Federal Facility:	Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID:	2276358.00000
Person ID:	2000168.00000
Contact Sequence ID:	2276688.00000

NAVAL STATION SAPLETON (Continued) **1000148328**

Person ID: 2000112.00000

Contact Sequence ID: 13114962.00000
Person ID: 2000112.00000

Contact Sequence ID: 13120793.00000
Person ID: 2000176.00000

CERCLIS-NFRAP Site Alias Name(s):
Alias Name: STAPLETON NAVAL STATION
Alias Address: STAPLETON
STATEN ISLAND, NY 10304

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: / /
Date Completed: 09/27/91
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 09/29/93
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 09/29/93
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: NAVAL STATION NY STAPLETON
Facility address: STAPLETON
STATEN ISLAND, NY 10304
EPA ID: NYD982277295
Mailing address: FLUSHING AVE
BROOKLYN, NY 11251
Contact: Not reported
Contact address: FLUSHING AVE
BROOKLYN, NY 11251
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: NAVAL STATION NY
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Federal

NAVAL STATION SAPLETON (Continued) **1000148328**

Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NAVAL STATION NY
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Federal
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
Facility name: NAVAL STATION NY STAPLETON
Classification: Not a generator, verified

Date form received by agency: 07/14/1999
Facility name: NAVAL STATION NY STAPLETON
Classification: Small Quantity Generator

Date form received by agency: 03/29/1994
Facility name: NAVAL STATION NY STAPLETON
Site name: NAVAL STATION NEW YORK
Classification: Large Quantity Generator

Date form received by agency: 06/01/1992
Facility name: NAVAL STATION NY STAPLETON
Site name: NAVAL STATION (STAPLETON)
Classification: Large Quantity Generator

Date form received by agency: 10/16/1987
Facility name: NAVAL STATION NY STAPLETON
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported

NAVAL STATION SAPLETON (Continued) **1000148328**

Area of violation: Generators - General
Date violation determined: 03/25/1993
Date achieved compliance: 05/24/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/25/1993
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: 03/25/1993
Date achieved compliance: 05/24/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/11/1993
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: 04/06/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 02/17/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 05/24/1993
Evaluation lead agency: State

FINDS:

Registry ID: 110006881838

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: NYD982277295
Country: USA
Mailing Name: UNITED STATES MILITARY

NAVAL STATION SAPLETON (Continued) **1000148328**

Mailing Contact:	MILTON DORTA WAGNER
Mailing Address:	NAVAL STA 355 FRONT ST
Mailing Address 2:	Not reported
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10304
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-876-6490

Document ID:	NCD1216920
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	DK004
Trans2 State ID:	Not reported
Generator Ship Date:	921216
Trans1 Recv Date:	921216
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	921223
Part A Recv Date:	Not reported
Part B Recv Date:	930120
Generator EPA ID:	NYD982277295
Trans1 EPA ID:	OKD981605363
Trans2 EPA ID:	Not reported
TSDF ID:	NCD000648451
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00120
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00250
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	92

Document ID:	NCA0201801
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	11339PNY
Trans2 State ID:	Not reported
Generator Ship Date:	920701
Trans1 Recv Date:	920701
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	920709
Part A Recv Date:	Not reported
Part B Recv Date:	920807
Generator EPA ID:	NYD982277295
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID:	NCD000648451
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES

NAVAL STATION SAPLETON (Continued) **1000148328**

Quantity: 00187
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 01056
Units: P - Pounds
Number of Containers: 022
Container Type: CF - Fiber or plastic boxes, cartons
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 01645
Units: P - Pounds
Number of Containers: 035
Container Type: CF - Fiber or plastic boxes, cartons
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 92

Document ID: NCA0201802
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 11339PNY
Trans2 State ID: Not reported
Generator Ship Date: 920701
Trans1 Recv Date: 920701
Trans2 Recv Date: Not reported
TSD Site Recv Date: 920709
Part A Recv Date: Not reported
Part B Recv Date: 920807
Generator EPA ID: NYD982277295
Trans1 EPA ID: NYD980769947
Trans2 EPA ID: Not reported
TSDF ID: NCD000648451
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00131
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 01037
Units: P - Pounds
Number of Containers: 003
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 92

Document ID: NCA0201803
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 11339PNY

NAVAL STATION SAPLETON (Continued) **1000148328**

Trans2 State ID:	Not reported
Generator Ship Date:	920701
Trans1 Recv Date:	920701
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	920709
Part A Recv Date:	Not reported
Part B Recv Date:	920807
Generator EPA ID:	NYD982277295
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID:	NCD000648451
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	05284
Units:	P - Pounds
Number of Containers:	038
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00185
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	01047
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	92

Document ID:	NCA0201806
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	11339PNY
Trans2 State ID:	Not reported
Generator Ship Date:	920701
Trans1 Recv Date:	920701
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	920709
Part A Recv Date:	Not reported
Part B Recv Date:	920807
Generator EPA ID:	NYD982277295
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID:	NCD000648451
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00891
Units:	P - Pounds
Number of Containers:	022
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported

NAVAL STATION SAPLETON (Continued) **1000148328**

Quantity:	00041
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:	92

Document ID:	NCA0601930
Manifest Status:	Completed copy
Trans1 State ID:	OK004
Trans2 State ID:	Not reported
Generator Ship Date:	930601
Trans1 Recv Date:	930601
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930607
Part A Recv Date:	Not reported
Part B Recv Date:	930623
Generator EPA ID:	NYD982277295
Trans1 EPA ID:	OKD981605363
Trans2 EPA ID:	Not reported
TSDF ID:	NCD000648451
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00085
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00455
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
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:	100
Year:	93

Document ID:	NCA0201804
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	11339PNY

NAVAL STATION SAPLETON (Continued) **1000148328**

Trans2 State ID:	Not reported
Generator Ship Date:	920701
Trans1 Recv Date:	920701
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	920709
Part A Recv Date:	Not reported
Part B Recv Date:	920807
Generator EPA ID:	NYD982277295
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID:	NCD000648451
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00059
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	03868
Units:	P - Pounds
Number of Containers:	009
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	02741
Units:	P - Pounds
Number of Containers:	007
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	92

Document ID:	NCD0127930
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	SC004
Trans2 State ID:	Not reported
Generator Ship Date:	930127
Trans1 Recv Date:	930127
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930203
Part A Recv Date:	Not reported
Part B Recv Date:	930224
Generator EPA ID:	NYD982277295
Trans1 EPA ID:	SCD987574647
Trans2 EPA ID:	Not reported
TSDF ID:	NCD000648451
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00040
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported

NAVAL STATION SAPLETON (Continued) **1000148328**

Quantity:	00630
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00860
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
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:	100
Year:	93

Document ID:	NCA0127930
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	SC004
Trans2 State ID:	Not reported
Generator Ship Date:	930127
Trans1 Recv Date:	930127
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930203
Part A Recv Date:	Not reported
Part B Recv Date:	930224
Generator EPA ID:	NYD982277295
Trans1 EPA ID:	SCD987574647
Trans2 EPA ID:	Not reported
TSDF ID:	NCD000648451
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00067
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00003
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00040
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.

NAVAL STATION SAPLETON (Continued) **1000148328**

Specific Gravity: 100
Year: 93

Document ID: NCC0127930
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: SC004
Trans2 State ID: Not reported
Generator Ship Date: 930127
Trans1 Recv Date: 930127
Trans2 Recv Date: Not reported
TSD Site Recv Date: 930203
Part A Recv Date: Not reported
Part B Recv Date: 930224
Generator EPA ID: NYD982277295
Trans1 EPA ID: SCD987574647
Trans2 EPA ID: Not reported
TSDF ID: NCD000648451
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00080
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 00420
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: Not reported
Quantity: 00180
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 00432
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 100
Year: 93

Document ID: NCB0127930
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: SC004
Trans2 State ID: Not reported
Generator Ship Date: 930127
Trans1 Recv Date: 930127
Trans2 Recv Date: Not reported
TSD Site Recv Date: 930203

NAVAL STATION SAPLETON (Continued) **1000148328**

Part A Recv Date:	Not reported
Part B Recv Date:	930224
Generator EPA ID:	NYD982277295
Trans1 EPA ID:	SCD987574647
Trans2 EPA ID:	Not reported
TSDF ID:	NCD000648451
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00290
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	02927
Units:	P - Pounds
Number of Containers:	007
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00465
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00020
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	93

Document ID:	NCB0601930
Manifest Status:	Completed copy
Trans1 State ID:	OK004
Trans2 State ID:	Not reported
Generator Ship Date:	930601
Trans1 Recv Date:	930601
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930607
Part A Recv Date:	Not reported
Part B Recv Date:	930623
Generator EPA ID:	NYD982277295
Trans1 EPA ID:	OKD981605363
Trans2 EPA ID:	Not reported
TSDF ID:	NCD000648451
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00133
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.

NAVAL STATION SAPLETON (Continued) **1000148328**

Specific Gravity: 100
Year: 93

Document ID: ARA7178250
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: PC0902H20
Trans2 State ID: Not reported
Generator Ship Date: 951117
Trans1 Recv Date: 951117
Trans2 Recv Date: Not reported
TSD Site Recv Date: 951129
Part A Recv Date: 951208
Part B Recv Date: 951219
Generator EPA ID: NYD982277295
Trans1 EPA ID: OHD009865825
Trans2 EPA ID: Not reported
TSDF ID: ARD069748192
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00018
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: Not reported
Quantity: 00011
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: Not reported
Quantity: 00166
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 95

Document ID: CTF0592526
Manifest Status: Not reported
Trans1 State ID: MAD039322250
Trans2 State ID: NJD000813477
Generator Ship Date: 03/19/1998
Trans1 Recv Date: 03/19/1998
Trans2 Recv Date: 03/19/1998
TSD Site Recv Date: 04/09/1998
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD982277295
Trans1 EPA ID: CTD000604488
Trans2 EPA ID: Not reported
TSDF ID: P2881FOH
Waste Code: D008 - LEAD 5.0 MG/L TCLP

NAVAL STATION SAPLETON (Continued) **1000148328**

Quantity:	00400
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	98

Document ID:	NCB0526930
Manifest Status:	Completed copy
Trans1 State ID:	OK004
Trans2 State ID:	Not reported
Generator Ship Date:	930526
Trans1 Recv Date:	930526
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930602
Part A Recv Date:	Not reported
Part B Recv Date:	930617
Generator EPA ID:	NYD982277295
Trans1 EPA ID:	OKD981605363
Trans2 EPA ID:	Not reported
TSDF ID:	NCD000648451
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00386
Units:	P - Pounds
Number of Containers:	003
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00391
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:	Not reported
Quantity:	03671
Units:	P - Pounds
Number of Containers:	008
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	93

Document ID:	NCG0526930
Manifest Status:	Completed copy
Trans1 State ID:	OK004
Trans2 State ID:	Not reported
Generator Ship Date:	930526
Trans1 Recv Date:	930526
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930602
Part A Recv Date:	Not reported
Part B Recv Date:	930617

NAVAL STATION SAPLETON (Continued) **1000148328**

Generator EPA ID:	NYD982277295
Trans1 EPA ID:	OKD981605363
Trans2 EPA ID:	Not reported
TSDF ID:	NCD000648451
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00710
Units:	P - Pounds
Number of Containers:	005
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00460
Units:	P - Pounds
Number of Containers:	010
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	01315
Units:	P - Pounds
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	93

Document ID:	NCA0525930
Manifest Status:	Completed copy
Trans1 State ID:	OK004
Trans2 State ID:	Not reported
Generator Ship Date:	930525
Trans1 Recv Date:	930525
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930601
Part A Recv Date:	Not reported
Part B Recv Date:	930617
Generator EPA ID:	NYD982277295
Trans1 EPA ID:	OKD981605363
Trans2 EPA ID:	Not reported
TSDF ID:	NCD000648451
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	05188
Units:	P - Pounds
Number of Containers:	037
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	02496
Units:	P - Pounds
Number of Containers:	016
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	93

NAVAL STATION SAPLETON (Continued) **1000148328**

Document ID:	NCC0526930
Manifest Status:	Completed copy
Trans1 State ID:	OK004
Trans2 State ID:	Not reported
Generator Ship Date:	930526
Trans1 Recv Date:	930526
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930602
Part A Recv Date:	Not reported
Part B Recv Date:	930617
Generator EPA ID:	NYD982277295
Trans1 EPA ID:	OKD981605363
Trans2 EPA ID:	Not reported
TSDF ID:	NCD000648451
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00867
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	10277
Units:	P - Pounds
Number of Containers:	025
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	93

Document ID:	NCD0526930
Manifest Status:	Completed copy
Trans1 State ID:	OK004
Trans2 State ID:	Not reported
Generator Ship Date:	930526
Trans1 Recv Date:	930526
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930602
Part A Recv Date:	Not reported
Part B Recv Date:	930617
Generator EPA ID:	NYD982277295
Trans1 EPA ID:	OKD981605363
Trans2 EPA ID:	Not reported
TSDF ID:	NCD000648451
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	04315
Units:	P - Pounds
Number of Containers:	017
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	01628
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels

NAVAL STATION SAPLETON (Continued) **1000148328**

Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	93

Document ID:	NCE0526930
Manifest Status:	Completed copy
Trans1 State ID:	OK004
Trans2 State ID:	Not reported
Generator Ship Date:	930526
Trans1 Recv Date:	930526
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930602
Part A Recv Date:	Not reported
Part B Recv Date:	930617
Generator EPA ID:	NYD982277295
Trans1 EPA ID:	OKD981605363
Trans2 EPA ID:	Not reported
TSDF ID:	NCD000648451
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00250
Units:	P - Pounds
Number of Containers:	005
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00080
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	93

Click this hyperlink while viewing on your computer to access
62 additional NY_MANIFEST: record(s) in the EDR Site Report.

C28 **STAPLETON FACILITY** **UST** **U004064446**
ESE **355 FRONT STREET** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.050 mi.
266 ft. **Site 5 of 10 in cluster C**

Relative:
Lower

Actual:
10 ft.

UST:

Id/Status:	2-341983 / Unregulated
Region:	STATE
DEC Region:	2
Program Type:	PBS
Expiration Date:	N/A
UTM X:	578242.17651000002
UTM Y:	4497985.4615900004

Affiliation Records:

Site Id:	16578
Affiliation Type:	Owner
Company Name:	NYC ECONOMIC DEVELOPMENT CORP.
Contact Type:	VICE PRESIDENT

STAPLETON FACILITY (Continued) **U004064446**

Contact Name:	KAY ZIAS
Address1:	110 WILLIAM STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10038
Country Code:	001
Phone:	(212) 312-3816
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	11/16/2012

Site Id:	16578
Affiliation Type:	Mail Contact
Company Name:	NYC ECONOMIC DEVELOPMENT CORP.
Contact Type:	Not reported
Contact Name:	RORY MELVIN
Address1:	110 WILLIAM STREET
Address2:	3RD FLOOR
City:	NEW YORK
State:	NY
Zip Code:	10038
Country Code:	001
Phone:	(212) 312-3816
Phone Ext:	Not reported
Email:	RMELVIN@NYCEDC.COM
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	11/16/2012

Site Id:	16578
Affiliation Type:	On-Site Operator
Company Name:	STAPLETON FACILITY
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
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	BVCAMPBE
Date Last Modified:	11/8/2011

Site Id:	16578
Affiliation Type:	Emergency Contact
Company Name:	NYC ECONOMIC DEVELOPMENT CORP.
Contact Type:	Not reported
Contact Name:	JACK POWERS
Address1:	Not reported
Address2:	Not reported

STAPLETON FACILITY (Continued) **U004064446**

City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(917) 642-0918
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	11/16/2012

Tank Info:

Site ID:	16578
Tank Number:	01
Tank ID:	58996
Tank Status:	Closed - Removed
Tank Type:	0
Pipe Model:	D

Equipment Records:

B09 - Tank External Protection - Urethane
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)
F04 - Pipe External Protection - Fiberglass
K01 - Spill Prevention - Catch Basin
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
E04 - Piping Secondary Containment - Double-Walled (Underground)
H05 - Tank Leak Detection - In-Tank System (ATG)
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring

Install Date:	04/01/1989
Capacity Gallons:	1000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	11/08/2011
Tank Location:	5
Tank Type:	0
Date Test:	Not reported
Registered:	True
Modified By:	BVCAMPBE
Last Modified:	11/08/2011
Site ID:	16578
Tank Number:	02
Tank ID:	58997
Tank Status:	Closed - Removed
Tank Type:	0
Pipe Model:	D

Equipment Records:

B09 - Tank External Protection - Urethane
C03 - Pipe Location - Aboveground/Underground Combination
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)

STAPLETON FACILITY (Continued) **U004064446**

G04 - Tank Secondary Containment - Double-Walled (Underground)
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
F04 - Pipe External Protection - Fiberglass
K01 - Spill Prevention - Catch Basin
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
E04 - Piping Secondary Containment - Double-Walled (Underground)
H05 - Tank Leak Detection - In-Tank System (ATG)
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring

Install Date: 04/01/1989
Capacity Gallons: 1000
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: 11/08/2011
Tank Location: 5
Tank Type: 0
Date Test: Not reported
Registered: True
Modified By: BVCAMPBE
Last Modified: 11/08/2011

Site ID: 16578

Tank Number: 03
Tank ID: 58998
Tank Status: Closed - Removed
Tank Type: 0
Pipe Model: D

Equipment Records:

E04 - Piping Secondary Containment - Double-Walled (Underground)
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)
B09 - Tank External Protection - Urethane
C03 - Pipe Location - Aboveground/Underground Combination
F04 - Pipe External Protection - Fiberglass
K01 - Spill Prevention - Catch Basin
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
H05 - Tank Leak Detection - In-Tank System (ATG)
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring

Install Date: 04/01/1989
Capacity Gallons: 2000
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: 11/08/2011
Tank Location: 5
Tank Type: 0
Date Test: Not reported
Registered: True
Modified By: BVCAMPBE
Last Modified: 11/08/2011

Site ID: 16578

STAPLETON FACILITY (Continued) **U004064446**

Tank Number: 04
Tank ID: 58999
Tank Status: Closed - Removed
Tank Type: 0
Pipe Model: D

Equipment Records:
B09 - Tank External Protection - Urethane
C03 - Pipe Location - Aboveground/Underground Combination
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)
F04 - Pipe External Protection - Fiberglass
K01 - Spill Prevention - Catch Basin
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
E04 - Piping Secondary Containment - Double-Walled (Underground)
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
H05 - Tank Leak Detection - In-Tank System (ATG)
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring

Install Date: 04/01/1989
Capacity Gallons: 1000
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: 11/08/2011
Tank Location: 5
Tank Type: 0
Date Test: Not reported
Registered: True
Modified By: BVCAMPBE
Last Modified: 11/08/2011

Site ID: 16578

Tank Number: 05
Tank ID: 59000
Tank Status: Closed - Removed
Tank Type: 0
Pipe Model: D

Equipment Records:
B09 - Tank External Protection - Urethane
F04 - Pipe External Protection - Fiberglass
K01 - Spill Prevention - Catch Basin
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
E04 - Piping Secondary Containment - Double-Walled (Underground)
H05 - Tank Leak Detection - In-Tank System (ATG)
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring

Install Date: 04/01/1989
Capacity Gallons: 1000
Tightness Test Method: NN
Next Test Date: Not reported

STAPLETON FACILITY (Continued) **U004064446**

Date Tank Closed: 11/08/2011
Tank Location: 5
Tank Type: 0
Date Test: Not reported
Registered: True
Modified By: BVCAMPBE
Last Modified: 11/08/2011

Site ID: 16578

Tank Number: 06
Tank ID: 59001
Tank Status: Closed - In Place
Tank Type: Fiberglass coated steel
Pipe Model: Not reported

Equipment Records:

G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
C02 - Pipe Location - Underground/On-ground
B04 - Tank External Protection - Fiberglass
H05 - Tank Leak Detection - In-Tank System (ATG)

Install Date: 04/01/1989
Capacity Gallons: 1000
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: 01/16/2002
Tank Location: 5
Tank Type: Fiberglass coated steel
Date Test: Not reported
Registered: True
Modified By: BVCAMPBE
Last Modified: 11/08/2011

Site ID: 16578

Tank Number: 104
Tank ID: 31834
Tank Status: Closed - In Place
Tank Type: 0
Pipe Model: D

Equipment Records:

F04 - Pipe External Protection - Fiberglass
K01 - Spill Prevention - Catch Basin
B09 - Tank External Protection - Urethane
C03 - Pipe Location - Aboveground/Underground Combination
A01 - Tank Internal Protection - Epoxy Liner
J02 - Dispenser - Suction
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)
I02 - Overfill - High Level Alarm
E04 - Piping Secondary Containment - Double-Walled (Underground)
H05 - Tank Leak Detection - In-Tank System (ATG)
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring

STAPLETON FACILITY (Continued) **U004064446**

Install Date:	04/01/1989
Capacity Gallons:	4000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	06/15/2010
Tank Location:	5
Tank Type:	0
Date Test:	Not reported
Registered:	True
Modified By:	NRLOMBAR
Last Modified:	11/16/2012

C29 **STAPLETON FACILITY** **HIST UST** **U003074680**
ESE **355 FRONT STREET** **AST** **N/A**
< 1/8 **STATEN ISLAND, NY 10304** **HIST AST**
0.050 mi.
266 ft. **Site 6 of 10 in cluster C**

Relative:
Lower

Actual:
10 ft.

HIST UST:

PBS Number:	2-341983
SPDES Number:	Not reported
Emergency Contact:	JACK POWERS
Emergency Telephone:	(212) 312-3616
Operator:	WILL GITTENS
Operator Telephone:	(718) 630-2424
Owner Name:	NYC ECONOMIC DEVELOPMENT CORP.
Owner Address:	110 WILLIAM STREET - 6TH FLOOR
Owner City,St,Zip:	NEW YORK, NY 10038
Owner Telephone:	(212) 312-3509
Owner Type:	Local Government
Owner Subtype:	Not reported
Mailing Name:	NYC ECONOMIC DEVELOPMENT CORP.
Mailing Address:	110 WILLIAM STREET
Mailing Address 2:	6TH FLOOR
Mailing City,St,Zip:	NEW YORK, NY 10038
Mailing Contact:	JACK POWERS
Mailing Telephone:	(212) 312-3509
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.
Facility Addr2:	355 FRONT STREET
SWIS ID:	6401
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:	12/01/2000
Expiration Date:	11/29/2005
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	292497
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing

STAPLETON FACILITY (Continued) **U003074680**

Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	64
Town or City:	01
Region:	2

Tank Id:	01
Tank Location:	UNDERGROUND
Tank Status:	Temporarily Out Of Service
Install Date:	20000401
Capacity (gals):	1000
Product Stored:	USED OIL
Tank Type:	Fiberglass coated steel
Tank Internal:	None
Tank External:	Fiberglass
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	In-tank System
Overfill Prot:	Product Level Gauge
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
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	02
Tank Location:	UNDERGROUND
Tank Status:	Temporarily Out Of Service
Install Date:	20000401
Capacity (gals):	1000
Product Stored:	USED OIL
Tank Type:	Fiberglass coated steel
Tank Internal:	None
Tank External:	Fiberglass
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	In-tank System
Overfill Prot:	Product Level Gauge
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

STAPLETON FACILITY (Continued) **U003074680**

Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	03
Tank Location:	UNDERGROUND
Tank Status:	Temporarily Out Of Service
Install Date:	20000401
Capacity (gals):	2000
Product Stored:	DIESEL
Tank Type:	Fiberglass coated steel
Tank Internal:	None
Tank External:	Fiberglass
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	In-tank System
Overfill Prot:	Vent Whistle
Dispenser:	0
Date Tested:	Not reported
Next Test Date:	04/01/2015
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	04
Tank Location:	UNDERGROUND
Tank Status:	Temporarily Out Of Service
Install Date:	20000401
Capacity (gals):	1000
Product Stored:	USED OIL
Tank Type:	Fiberglass coated steel
Tank Internal:	None
Tank External:	Fiberglass
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	In-tank System
Overfill Prot:	Product Level Gauge
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
Deleted:	False
Updated:	True
Lat/long:	Not reported

STAPLETON FACILITY (Continued) **U003074680**

Tank Id:	05
Tank Location:	UNDERGROUND
Tank Status:	Temporarily Out Of Service
Install Date:	20000401
Capacity (gals):	1000
Product Stored:	USED OIL
Tank Type:	Fiberglass coated steel
Tank Internal:	None
Tank External:	Fiberglass
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	In-tank System
Overfill Prot:	Product Level Gauge
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
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	06
Tank Location:	UNDERGROUND
Tank Status:	Temporarily Out Of Service
Install Date:	20000401
Capacity (gals):	1000
Product Stored:	USED OIL
Tank Type:	Fiberglass coated steel
Tank Internal:	None
Tank External:	Fiberglass
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	In-tank System
Overfill Prot:	Product Level Gauge
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
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	104
Tank Location:	UNDERGROUND
Tank Status:	Temporarily Out Of Service

STAPLETON FACILITY (Continued) **U003074680**

Install Date:	20000401
Capacity (gals):	4000
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Sacrificial Anode
Second Containment:	Vault (w/access)
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	04/01/2010
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Facility Id:	2-341983
Program Type:	PBS
UTM X:	578242.17651000002
UTM Y:	4497985.4615900004
Expiration Date:	N/A

Affiliation Records:

Site Id:	16578
Affiliation Type:	Owner
Company Name:	NYC ECONOMIC DEVELOPMENT CORP.
Contact Type:	VICE PRESIDENT
Contact Name:	KAY ZIAS
Address1:	110 WILLIAM STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10038
Country Code:	001
Phone:	(212) 312-3816
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	11/16/2012

Site Id:	16578
Affiliation Type:	Mail Contact
Company Name:	NYC ECONOMIC DEVELOPMENT CORP.
Contact Type:	Not reported
Contact Name:	RORY MELVIN

STAPLETON FACILITY (Continued) **U003074680**

Address1:	110 WILLIAM STREET
Address2:	3RD FLOOR
City:	NEW YORK
State:	NY
Zip Code:	10038
Country Code:	001
Phone:	(212) 312-3816
Phone Ext:	Not reported
Email:	RMELVIN@NYCEDC.COM
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	11/16/2012

Site Id:	16578
Affiliation Type:	On-Site Operator
Company Name:	STAPLETON FACILITY
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
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	BVCAMPBE
Date Last Modified:	11/8/2011

Site Id:	16578
Affiliation Type:	Emergency Contact
Company Name:	NYC ECONOMIC DEVELOPMENT CORP.
Contact Type:	Not reported
Contact Name:	JACK POWERS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(917) 642-0918
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	11/16/2012

Tank Info:

Tank Number:	07
Tank Id:	241607

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)

STAPLETON FACILITY (Continued) **U003074680**

C01 - Pipe Location - Aboveground
F01 - Pipe External Protection - Painted/Asphalt Coating
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G01 - Tank Secondary Containment - Diking (Aboveground)
J02 - Dispenser - Suction
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
E01 - Piping Secondary Containment - Diking (Aboveground)

Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
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: 11/08/2011
Register: True
Modified By: BVCAMPBE
Last Modified: 11/08/2011

Tank Number: 102
Tank Id: 31833

Equipment Records:

C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
F01 - Pipe External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G02 - Tank Secondary Containment - Vault (w/access)
B01 - Tank External Protection - Painted/Asphalt Coating
K01 - Spill Prevention - Catch Basin
L00 - Piping Leak Detection - None
I00 - Overfill - None

Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - In Place
Pipe Model: D
Install Date: 04/01/1989
Capacity Gallons: 250000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 10/09/2012
Register: True
Modified By: NRLOMBAR
Last Modified: 11/16/2012

HIST AST:
PBS Number: 2-341983
SWIS Code: 6401

STAPLETON FACILITY (Continued) **U003074680**

Operator:	WILL GITTENS
Facility Phone:	(718) 630-2424
Facility Addr2:	355 FRONT STREET
Facility Type:	OTHER
Emergency:	JACK POWERS
Emergency Tel:	(212) 312-3616
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	NYC ECONOMIC DEVELOPMENT CORP.
Owner Address:	110 WILLIAM STREET - 6TH FLOOR
Owner City,St,Zip:	NEW YORK, NY 10038
Federal ID:	Not reported
Owner Tel:	(212) 312-3509
Owner Type:	Local Government
Owner Subtype:	Not reported
Mailing Contact:	JACK POWERS
Mailing Name:	NYC ECONOMIC DEVELOPMENT CORP.
Mailing Address:	110 WILLIAM STREET
Mailing Address 2:	6TH FLOOR
Mailing City,St,Zip:	NEW YORK, NY 10038
Mailing Telephone:	(212) 312-3509
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:	12/01/2000
Expiration:	11/29/2005
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	292497
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:	64
Town or City Code:	01
Region:	2

Tank ID:	102
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	19890401
Capacity (Gal):	281497
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	0
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	Epoxy Liner
Pipe External:	0

STAPLETON FACILITY (Continued) **U003074680**

Tank Containment: 8
Leak Detection: 9
Overfill Protection: 4
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

C30 **355 FRONT ST/US NAVY** **NY Hist Spills** **S102142453**
ESE **355 FRONT ST** **N/A**
< 1/8 **SI, NY**
0.050 mi.
266 ft. **Site 7 of 10 in cluster C**

Relative:
Lower

Actual:
10 ft.

NY Hist Spills:
Region of Spill: 2
Spill Number/Closed Date: 9109976 / 12/19/91
Investigator: TANG
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 12/19/1991 11:55
Reported to Dept Date/Time: 12/19/91 12:56
SWIS: 64
Spiller Name: Not reported
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Human Error
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 02
Spill Notifier: Responsible Party
PBS Number: Not reported
Cleanup Ceased: 12/19/91
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Not reported
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 01/06/92
Date Spill Entered In Computer Data File: Not reported
Update Date: / /

355 FRONT ST/US NAVY (Continued) **S102142453**

Is Updated: False

Tank:

Material:
Material Class Type: Petroleum
Quantity Spilled: 20
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Remark: ECO S INVESTIGATED; ALL CLEANED UP.

C31 **355 FRONT STREET** **LTANKS** **S102143298**
ESE **355 FRONT STREET** **HIST LTANKS** **N/A**
< 1/8 **STATEN ISLAND, NY** **NY Spills**
0.050 mi. **NY Hist Spills**
266 ft. **Site 8 of 10 in cluster C**

Relative:
Lower

Actual:
10 ft.

LTANKS:
Site ID: 319868
Spill Number/Closed Date: 9302210 / 5/18/1993
Spill Date: 5/17/1993
Spill Cause: Tank Overfill
Spill Source: Vessel
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: 5/18/1993
Cleanup Meets Standard: True
SWIS: 4301
Investigator: MCTIBBE
Referred To: Not reported
Reported to Dept: 5/17/1993
CID: Not reported
Water Affected: UPPER NARROWS BAY
Spill Notifier: Responsible Party
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 5/26/1993
Spill Record Last Update: 7/19/1993
Spiller Name: Not reported
Spiller Company: US NAVY
Spiller Address: USS AIMSWORTH
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: 85278

355 FRONT STREET (Continued) **S102143298**

DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
Remarks: OVERFILLED TANK DROPPED ABSORBANTS ON THE SPELL NOTIFIED URC CLEANED UP BY NAVY.

Material:
Site ID: 319868
Operable Unit ID: 980648
Operable Unit: 01
Material ID: 399349
Material Code: 0008
Material Name: Diesel
Case No.: Not reported
Material FA: Petroleum
Quantity: 5
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

Site ID: 95335
Spill Number/Closed Date: 0230022 / 12/11/2003
Spill Date: 3/8/2002
Spill Cause: Tank Failure
Spill Source: Non Major Facility > 1,100 gal
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 4301
Investigator: JMKRIMGO
Referred To: Not reported
Reported to Dept: 8/22/2002
CID: Not reported
Water Affected: Not reported
Spill Notifier: DEC
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 8/22/2002
Spill Record Last Update: 12/11/2003
Spiller Name: DOUGLAS RICE, VICE PRES
Spiller Company: NYC ECONOMIC DEVELOPMENT
Spiller Address: 110 WILLIAMS STREET
Spiller City,St,Zip: NEW YORK, NY 10038-
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 85278

355 FRONT STREET (Continued) **S102143298**

DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KRIMGOLD"08/22/02Tank registration not updated to indicate tank closed.12/11/2003 MINOR CONTAMINATION IN SEMI-VOLATILE PORTION, close out.
Remarks: Waste oil tank closure report submitted by DDC's consultant, Washington Infrastructure Corp, received 8/22/02, indicates soil samples collected around the tank exceed TAGM.

Material:
Site ID: 95335
Operable Unit ID: 864441
Operable Unit: 01
Material ID: 509662
Material Code: 0022
Material Name: Waste Oil/Used Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

HIST LTANKS:
Region of Spill: 2
Spill Number/Closed Date: 9302210 / 05/18/93
Spill Date: 05/17/1993
Spill Time: 15:15
Spill Cause: Tank Overfill
Resource Affectd: Surface Water
Water Affected: UPPER NARROWS BAY
Spill Source: Vessel
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: 05/18/93
Cleanup Meets Standard: True
Investigator: TIBBE
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 05/17/93
Reported to Department Time: 16:45
SWIS: 64
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: US NAVY

355 FRONT STREET (Continued) **S102143298**

Spiller Address: USS AIMSWORTH
Spiller City,St,Zip: Not reported
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: Not reported
Facility Extention: Not reported
Spill Notifier: Responsible Party
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 05/26/93
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 07/19/93
Is Updated: False

Tank:

Material:
Material Class Type: Petroleum
Quantity Spilled: 5
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Spill Cause: OVERFILLED TANK DROPPED ABSORBANTS ON THE SPELL NOTIFIED URC CLEANED UP BY NAVY.

SPILLS:
Facility ID: 9207473
DER Facility ID: 85278
Facility Type: ER
Site ID: 95336
DEC Region: 2
Spill Date: 9/28/1992
Spill Number/Closed Date: 9207473 / 9/28/1992
Spill Cause: Unknown
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 4301
Investigator: KSTANG
Referred To: Not reported
Reported to Dept: 9/28/1992
CID: Not reported
Water Affected: N.Y. HARBOR
Spill Source: Unknown
Spill Notifier: Affected Persons
Cleanup Ceased: 9/28/1992

355 FRONT STREET (Continued) **S102143298**

Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	9/29/1992
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 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:	IN WATER ON STARBOARD SIDE OF SHIP BOOM IN PLACE SWEEPERS ARE BEING USED, CALLED LT. FORD BACK 3:30 CONFIRMED THAT CLEAN UP DONE BY US NAVY.

Material:

Site ID:	95336
Operable Unit ID:	974363
Operable Unit:	01
Material ID:	408112
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	1107850
DER Facility ID:	85278
Facility Type:	ER
Site ID:	455561
DEC Region:	2
Spill Date:	9/21/2011
Spill Number/Closed Date:	1107850 / 11/3/2011
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	4301
Investigator:	HRPATEL
Referred To:	Not reported
Reported to Dept:	9/21/2011
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False

355 FRONT STREET (Continued) **S102143298**

Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	9/21/2011
Spill Record Last Update:	11/3/2011
Spiller Name:	ROB TRULL
Spiller Company:	KIEWIT INFERSTRUCTURE
Spiller Address:	355 FRONT STREET
Spiller City,St,Zip:	STATEN ISLAND, NY
Spiller Company:	999
Contact Name:	ROB TRULL
Contact Phone:	Not reported
DEC Memo:	09/21/11-Hiralkumar Patel.9:05 AM:- visited site. it is a 24 hour construction site. met Rob. he mentioned that one of the hydraulic oil line broke on crane. leak was stopped soon. crane holds 300 gal hydraulic oil tank. based on amount added to tank, about 50 gal oil leaked onto ground under the crane. found oil on rain water under the crane. Rob mentioned that they will excavate the contaminated soil and put in container and Safety Clean will remove the container for disposal.Robert TrullEquipment SuperintendentKIEWIT INFRASTRUCTURE CO.355 Front StreetStaten Island, NY 10304Ph. (312) 907-5918 (C)email: robert.trull@kiewit.com11:05 AM:- received call from Keith Conlin from Environmental Compliance Monitoring. he mentioned that they have been hired by main contractor working at the site. he mentioned that their client collected endpoint sidewall and bottom samples and mixed all soil into drum. he also mentioned that excavation has been backfilled. as excavation backfilled, asked him to collect composite soil sample (from soil collected as endpoint samples) for VOCs/SVOCs analysis.Keith ConlinEnvironmental Compliance Monitoring, Inc. (ECM)Ph. (908) 874-0990Fax (908) 874-092012:43 PM:- spoke with Rob. they removed soil from 30 ft by 30 ft area and deepest excavation was 6 inches bg. they removed about 10 yards of soil. Rob confirmed that the main contractor collected endpoint samples.12:57 PM:- sent email to Rob. asked him to submit disposal manifest.09/23/11-Hiralkumar Patel.4:18 PM:- spoke with Rob and asked him about disposal manifests and endpoint sample. he mentioned that contaminated soil is in container and will be removed most probaly on 09/26/11. he mentioned that Environmental Compliance Monitoring collected endpoint samples and will submit result.10/12/11-Hiralkumar Patel. received email from Rob (at 10:19 AM on 10/04/11) including disposal manifest.10/19/11-Hiralkumar Patel.2:34 PM:- left message for Keith at ECM.2:35 PM;- sent email to Rob inquiring about endpoint sample results.11/03/11-Hiralkumar Patel.1:14 PM:- spoke with Keith at ECM. he mentioned that no contamination found in endpoint samples.based on available information, case closed.
Remarks:	clean up - pending - contacted - saftey clean

Material:

Site ID:	455561
Operable Unit ID:	1205712
Operable Unit:	01
Material ID:	2202646
Material Code:	0010
Material Name:	Hydraulic Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50

355 FRONT STREET (Continued) **S102143298**

Units: Gallons
Recovered: Not reported
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.

NY Hist Spills:
Region of Spill: 2
Spill Number/Closed Date: 9109417 / 12/04/91
Investigator: TANG
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 12/04/1991 15:00
Reported to Dept Date/Time: 12/04/91 15:22
SWIS: 64
Spiller Name: Not reported
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Unknown
Reported to Dept: Surface Water
Water Affected: STAPLETON ANCHORAGE
Spill Source: 12
Spill Notifier: Federal Government
PBS Number: Not reported
Cleanup Ceased: 12/04/91
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Not reported
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 12/11/91
Date Spill Entered In Computer Data File: Not reported
Update Date: 12/11/91
Is Updated: False

Tank:

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False

355 FRONT STREET (Continued) **S102143298**

Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Remark: USCG INVESTIGATING.

Region of Spill: 2
Spill Number/Closed Date: 9207473 / 09/28/92
Investigator: TANG
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 09/28/1992 12:00
Reported to Dept Date/Time: 09/28/92 13:18
SWIS: 64
Spiller Name: Not reported
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Unknown
Reported to Dept: Surface Water
Water Affected: N.Y. HARBOR
Spill Source: 12
Spill Notifier: Affected Persons
PBS Number: Not reported
Cleanup Ceased: 09/28/92
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 09/29/92
Date Spill Entered In Computer Data File: Not reported
Update Date: / /
Is Updated: False

Tank:

Material:
Material Class Type: Petroleum
Quantity Spilled: 5
Unkonwn Quantity Spilled: False
Units: Gallons

355 FRONT STREET (Continued) **S102143298**

Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Remark: IN WATER ON STARBOARD SIDE OF SHIP BOOM IN PLACE SWEEPERS ARE BEING USED, CALLED LT. FORD BACK 3:30 CONFIRMED THAT CLEAN UP DONE BY US NAVY.

Region of Spill: 2
Spill Number/Closed Date: 9305703 / 08/09/93
Investigator: KRIMGOLD
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 08/09/1993 08:30
Reported to Dept Date/Time: 08/09/93 11:31
SWIS: 64
Spiller Name: UNITED VAN LINES
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Equipment Failure
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 07
Spill Notifier: Other
PBS Number: Not reported
Cleanup Ceased: 08/09/93
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage.
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 08/11/93
Date Spill Entered In Computer Data File: Not reported
Update Date: / /
Is Updated: False

Tank:

Material:
Material Class Type: Petroleum
Quantity Spilled: 30
Unkonwn Quantity Spilled: False
Units: Gallons

355 FRONT STREET (Continued) **S102143298**

Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Remark: LEAKING FUEL LINE - SPILL ON PAVEMENT - HA/MAT TEAM CONTAINED -

Region of Spill: 2
Spill Number/Closed Date: 9305403 / 08/01/93
Investigator: O'DOWD
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 08/01/1993 13:30
Reported to Dept Date/Time: 08/01/93 14:50
SWIS: 64
Spiller Name: KENS MARINE SERVICES
Spiller Contact: Not reported
Spiller Phone: (201) 431-1105
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Human Error
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 02
Spill Notifier: Responsible Party
PBS Number: Not reported
Cleanup Ceased: 08/01/93
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Not reported
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 08/02/93
Date Spill Entered In Computer Data File: Not reported
Update Date: / /
Is Updated: False

Tank:

Material:
Material Class Type: Petroleum
Quantity Spilled: 20
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False

355 FRONT STREET (Continued) **S102143298**

Material:	GASOLINE
Class Type:	GASOLINE
Times Material Entry In File:	21329
CAS Number:	Not reported
Last Date:	19940929
DEC Remarks:	Not reported
Remark:	TANK CONTAINING FUEL SITTING IN SUN EXPANDED AND SPILLED OUT. NYC HAZMAT TEAM AND FD CLEANING IT UP - NYC DEP AND NRC NOTIFIED APPLING SORBENT - NO CALL BACK.

Click this hyperlink while viewing on your computer to access additional NY_HIST_SPILL: detail in the EDR Site Report.

C32 **LOT 25,TAXBLOCK 489** **E DESIGNATION** **S109318126**
SE **308 FRONT STREET** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.056 mi.
298 ft. **Site 9 of 10 in cluster C**

Relative:
Lower

Actual:
10 ft.

E DESIGNATION:

Tax Lot(s):	25
E-No:	E-168
Effective Date:	10/25/2006
Satisfaction Date:	Not reported
Ceqr Number:	06DME001R
Ulurp Number:	060471ZMR
Zoning Map No:	21c 21d
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	SI
Community District:	501
Census Tract:	15
Census Block:	1028
School District:	31
City Council District:	49
Fire Company:	L077
Health Area:	51
Police Precinct:	120
Zone District 1:	M2-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M2-1
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	G2
Land Use Category:	10
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	H NAD REALITY ASSOC
Lot Area:	000021200
Total Building Floor Area:	00000007000
Commercial Floor Area:	00000007000
Office Floor Area:	00000000000
Retail Floor Area:	00000003500
Garage Floor Area:	00000003500
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000

LOT 25,TAXBLOCK 489 (Continued) **S109318126**

Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	001.00
Residential Units:	00000
Non and Residential Units:	00003
Lot Frontage:	0150.00
Lot Depth:	0148.84
Building Frontage:	0050.00
Building Depth:	0141.00
Proximity Code:	1
Irregular Lot Code:	Y
Lot Type:	3
Basement Type Grade:	5
Land Assessed Value:	00000050400
Total Assessed Value:	00000083700
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1959
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.33
Maximum Allowable Far:	02.00
Borough Code:	5
Borough Tax Block And Lot:	5004890025
Condominium Number:	00000
Census Tract 2:	0015
X Coordinate:	0963436
Y Coordinate:	0168622
Zoning Map:	21C
Sanborn Map:	501 034
Tax Map:	50301
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1
Tax Lot(s):	25
E-No:	E-168
Effective Date:	10/25/2006
Satisfaction Date:	Not reported
Ceqr Number:	06DME001R
Ulurp Number:	060471ZMR
Zoning Map No:	21c 21d
Description:	Window Wall Attenuation & Alternate Ventilation
Borough Code:	SI
Community District:	501
Census Tract:	15

LOT 25,TAXBLOCK 489 (Continued) **S109318126**

Census Block:	1028
School District:	31
City Council District:	49
Fire Company:	L077
Health Area:	51
Police Precinct:	120
Zone District 1:	M2-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M2-1
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	G2
Land Use Category:	10
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	H NAD REALITY ASSOC
Lot Area:	000021200
Total Building Floor Area:	00000007000
Commercial Floor Area:	00000007000
Office Floor Area:	00000000000
Retail Floor Area:	00000003500
Garage Floor Area:	00000003500
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	001.00
Residential Units:	00000
Non and Residential Units:	00003
Lot Frontage:	0150.00
Lot Depth:	0148.84
Building Frontage:	0050.00
Building Depth:	0141.00
Proximity Code:	1
Irregular Lot Code:	Y
Lot Type:	3
Basement Type Grade:	5
Land Assessed Value:	00000050400
Total Assessed Value:	00000083700
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1959
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.33
Maximum Allowable Far:	02.00
Borough Code:	5
Borough Tax Block And Lot:	5004890025
Condominium Number:	00000

LOT 25,TAXBLOCK 489 (Continued) **S109318126**

Census Tract 2:	0015
X Coordinate:	0963436
Y Coordinate:	0168622
Zoning Map:	21C
Sanborn Map:	501 034
Tax Map:	50301
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

C33 **EDR US Hist Auto Stat** **1015410054**
SE **308 FRONT ST** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.056 mi.
298 ft. **Site 10 of 10 in cluster C**

Relative:
Lower

Actual:
10 ft.

EDR Historical Auto Stations:

Name:	AAA AUTO DIESEL REPAIR
Year:	2011
Address:	308 FRONT ST
Name:	AAA AUTO DIESEL REPAIR
Year:	2012
Address:	308 FRONT ST

B34 **EDR US Hist Auto Stat** **1015378188**
SSE **27 SANDS ST** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.058 mi.
305 ft. **Site 7 of 7 in cluster B**

Relative:
Lower

Actual:
15 ft.

EDR Historical Auto Stations:

Name:	ALL BROTHERS AUTO REPAIR
Year:	2005
Address:	27 SANDS ST
Name:	ALL BROTHERS AUTO REPAIR
Year:	2007
Address:	27 SANDS ST
Name:	ALL BROTHERS AUTO REPAIR
Year:	2008
Address:	27 SANDS ST
Name:	ALL BROTHERS AUTO REPAIR
Year:	2009
Address:	27 SANDS ST
Name:	ALL BROTHERS AUTO BODY

(Continued) **1015378188**

Year: 2010
Address: 27 SANDS ST

Name: ALL BROTHERS AUTO BODY
Year: 2011
Address: 27 SANDS ST

Name: ALL BROTHERS AUTO BODY
Year: 2012
Address: 27 SANDS ST

D35 **THOMAS J. MANZO; INC** **SWF/LF** **S105841807**
SE **320 FRONT ST** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.075 mi.
398 ft. **Site 1 of 5 in cluster D**

Relative:
Lower

Actual:
10 ft.

SWF/LF:
Flag: INACTIVE
Region Code: 2
Phone Number: 7183510147
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: THOMAS J. MANZO; 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: [43T08]
Active: No
East Coordinate: 578200
North Coordinate: 4497600
Accuracy Code: Not reported
Regulatory Status: Not reported
Waste Type: Not reported
Authorization #: 2-6402-00019
Authorization Date: Not reported
Expiration Date: Not reported

D36 **LOT 45,TAXBLOCK 490** **E DESIGNATION** **S109318137**
SSE **15 PROSPECT STREET** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.084 mi.
445 ft. **Site 2 of 5 in cluster D**

Relative:
Lower

Actual:
12 ft.

E DESIGNATION:
Tax Lot(s): 45
E-No: E-168
Effective Date: 10/25/2006

LOT 45,TAXBLOCK 490 (Continued) **S109318137**

Satisfaction Date:	Not reported
Ceqr Number:	06DME001R
Ulurp Number:	060471ZMR
Zoning Map No:	21c 21d
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	SI
Community District:	501
Census Tract:	15
Census Block:	1028
School District:	31
City Council District:	49
Fire Company:	L077
Health Area:	51
Police Precinct:	120
Zone District 1:	M2-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M2-1
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	F5
Land Use Category:	06
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	FELIX NODAR
Lot Area:	000005396
Total Building Floor Area:	00000003610
Commercial Floor Area:	00000003610
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000003610
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	001.00
Residential Units:	00000
Non and Residential Units:	00001
Lot Frontage:	0058.89
Lot Depth:	0150.15
Building Frontage:	0058.00
Building Depth:	0055.00
Proximity Code:	2
Irregular Lot Code:	Y
Lot Type:	4
Basement Type Grade:	5
Land Assessed Value:	00000014940
Total Assessed Value:	00000036270
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1929
Year Built Code:	Not reported
Year Altered1:	0000

LOT 45,TAXBLOCK 490 (Continued) **S109318137**

Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.67
Maximum Allowable Far:	02.00
Borough Code:	5
Borough Tax Block And Lot:	5004900045
Condominium Number:	00000
Census Tract 2:	0015
X Coordinate:	0963407
Y Coordinate:	0168403
Zoning Map:	21C
Sanborn Map:	501 034
Tax Map:	50301
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1
Tax Lot(s):	45
E-No:	E-168
Effective Date:	10/25/2006
Satisfaction Date:	Not reported
Ceqr Number:	06DME001R
Ulurp Number:	060471ZMR
Zoning Map No:	21c 21d
Description:	Window Wall Attenuation & Alternate Ventilation
Borough Code:	SI
Community District:	501
Census Tract:	15
Census Block:	1028
School District:	31
City Council District:	49
Fire Company:	L077
Health Area:	51
Police Precinct:	120
Zone District 1:	M2-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M2-1
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	F5
Land Use Category:	06
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	FELIX NODAR
Lot Area:	000005396

LOT 45,TAXBLOCK 490 (Continued) **S109318137**

Total Building Floor Area:	00000003610
Commercial Floor Area:	00000003610
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000000000
Factory Floor Area:	00000003610
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	001.00
Residential Units:	00000
Non and Residential Units:	00001
Lot Frontage:	0058.89
Lot Depth:	0150.15
Building Frontage:	0058.00
Building Depth:	0055.00
Proximity Code:	2
Irregular Lot Code:	Y
Lot Type:	4
Basement Type Grade:	5
Land Assessed Value:	00000014940
Total Assessed Value:	00000036270
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1929
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.67
Maximum Allowable Far:	02.00
Borough Code:	5
Borough Tax Block And Lot:	5004900045
Condominium Number:	00000
Census Tract 2:	0015
X Coordinate:	0963407
Y Coordinate:	0168403
Zoning Map:	21C
Sanborn Map:	501 034
Tax Map:	50301
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

D37 **LOT 29,TAXBLOCK 491** **E DESIGNATION** **S109318128**
SSE **14 PROSPECT STREET** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.086 mi.
454 ft. **Site 3 of 5 in cluster D**

Relative:
Lower

Actual:
12 ft.

E DESIGNATION:

Tax Lot(s):	29
E-No:	E-168
Effective Date:	10/25/2006
Satisfaction Date:	Not reported
Ceqr Number:	06DME001R
Ulurp Number:	060471ZMR
Zoning Map No:	21c 21d
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	SI
Community District:	501
Census Tract:	15
Census Block:	1030
School District:	31
City Council District:	49
Fire Company:	L077
Health Area:	51
Police Precinct:	120
Zone District 1:	M2-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M2-1
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	G9
Land Use Category:	07
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	TUPONE ANGELO
Lot Area:	000020000
Total Building Floor Area:	00000001128
Commercial Floor Area:	00000001128
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000001128
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	001.00
Residential Units:	00000
Non and Residential Units:	00001
Lot Frontage:	0050.00
Lot Depth:	0400.25
Building Frontage:	0024.00
Building Depth:	0047.00
Proximity Code:	1
Irregular Lot Code:	N
Lot Type:	5

LOT 29,TAXBLOCK 491 (Continued) **S109318128**

Basement Type Grade:	5
Land Assessed Value:	00000042840
Total Assessed Value:	00000050850
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1931
Year Built Code:	E
Year Altered1:	1980
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.06
Maximum Allowable Far:	02.00
Borough Code:	5
Borough Tax Block And Lot:	5004910029
Condominium Number:	00000
Census Tract 2:	0015
X Coordinate:	0963448
Y Coordinate:	0168106
Zoning Map:	21C
Sanborn Map:	501 036
Tax Map:	50301
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

Tax Lot(s):	29
E-No:	E-168
Effective Date:	10/25/2006
Satisfaction Date:	Not reported
Ceqr Number:	06DME001R
Ulurp Number:	060471ZMR
Zoning Map No:	21c 21d
Description:	Window Wall Attenuation & Alternate Ventilation
Borough Code:	SI
Community District:	501
Census Tract:	15
Census Block:	1030
School District:	31
City Council District:	49
Fire Company:	L077
Health Area:	51
Police Precinct:	120
Zone District 1:	M2-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M2-1

LOT 29,TAXBLOCK 491 (Continued) **S109318128**

All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	G9
Land Use Category:	07
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	TUPONE ANGELO
Lot Area:	000020000
Total Building Floor Area:	00000001128
Commercial Floor Area:	00000001128
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000001128
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	001.00
Residential Units:	00000
Non and Residential Units:	00001
Lot Frontage:	0050.00
Lot Depth:	0400.25
Building Frontage:	0024.00
Building Depth:	0047.00
Proximity Code:	1
Irregular Lot Code:	N
Lot Type:	5
Basement Type Grade:	5
Land Assessed Value:	00000042840
Total Assessed Value:	00000050850
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1931
Year Built Code:	E
Year Altered1:	1980
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.06
Maximum Allowable Far:	02.00
Borough Code:	5
Borough Tax Block And Lot:	5004910029
Condominium Number:	00000
Census Tract 2:	0015
X Coordinate:	0963448
Y Coordinate:	0168106
Zoning Map:	21C
Sanborn Map:	501 036
Tax Map:	50301
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006

LOT 29,TAXBLOCK 491 (Continued) **S109318128**

Date of Mass Appraisal Data: 11/2005
Date of Political and Adm Data: 08/2005
Pluto-Base Map Indicator: 1

D38 **LOT 32,TAXBLOCK 491** **E DESIGNATION** **S109318132**
SE **10 PROSPECT STREET** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.087 mi.
460 ft. **Site 4 of 5 in cluster D**

Relative:
Lower

Actual:
12 ft.

E DESIGNATION:

Tax Lot(s):	32
E-No:	E-168
Effective Date:	10/25/2006
Satisfaction Date:	Not reported
Ceqr Number:	06DME001R
Ulurp Number:	060471ZMR
Zoning Map No:	21c 21d
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	SI
Community District:	501
Census Tract:	15
Census Block:	1030
School District:	31
City Council District:	49
Fire Company:	L077
Health Area:	51
Police Precinct:	120
Zone District 1:	M2-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M2-1
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	E9
Land Use Category:	06
Number of Easements:	0
Owner, Type of Code:	P
Owner Name:	FOUR A'S REALTY CORP
Lot Area:	000010000
Total Building Floor Area:	00000007500
Commercial Floor Area:	00000007500
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000007500
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00003
Number of Floors:	001.00
Residential Units:	00000
Non and Residential Units:	00001
Lot Frontage:	0100.00
Lot Depth:	0100.00

LOT 32,TAXBLOCK 491 (Continued) **S109318132**

Building Frontage:	0075.00
Building Depth:	0100.00
Proximity Code:	2
Irregular Lot Code:	N
Lot Type:	3
Basement Type Grade:	5
Land Assessed Value:	00000024525
Total Assessed Value:	00000054900
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1931
Year Built Code:	E
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.75
Maximum Allowable Far:	02.00
Borough Code:	5
Borough Tax Block And Lot:	5004910032
Condominium Number:	00000
Census Tract 2:	0015
X Coordinate:	0963530
Y Coordinate:	0168270
Zoning Map:	21C
Sanborn Map:	501 036
Tax Map:	50301
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

Tax Lot(s):	32
E-No:	E-168
Effective Date:	10/25/2006
Satisfaction Date:	Not reported
Ceqr Number:	06DME001R
Ulurp Number:	060471ZMR
Zoning Map No:	21c 21d
Description:	Window Wall Attenuation & Alternate Ventilation
Borough Code:	SI
Community District:	501
Census Tract:	15
Census Block:	1030
School District:	31
City Council District:	49
Fire Company:	L077
Health Area:	51
Police Precinct:	120
Zone District 1:	M2-1
Zone District 2:	Not reported

LOT 32,TAXBLOCK 491 (Continued) **S109318132**

Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M2-1
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	E9
Land Use Category:	06
Number of Easements:	0
Owner, Type of Code:	P
Owner Name:	FOUR A'S REALTY CORP
Lot Area:	000010000
Total Building Floor Area:	00000007500
Commercial Floor Area:	00000007500
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000007500
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00003
Number of Floors:	001.00
Residential Units:	00000
Non and Residential Units:	00001
Lot Frontage:	0100.00
Lot Depth:	0100.00
Building Frontage:	0075.00
Building Depth:	0100.00
Proximity Code:	2
Irregular Lot Code:	N
Lot Type:	3
Basement Type Grade:	5
Land Assessed Value:	00000024525
Total Assessed Value:	00000054900
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1931
Year Built Code:	E
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.75
Maximum Allowable Far:	02.00
Borough Code:	5
Borough Tax Block And Lot:	5004910032
Condominium Number:	00000
Census Tract 2:	0015
X Coordinate:	0963530
Y Coordinate:	0168270
Zoning Map:	21C
Sanborn Map:	501 036
Tax Map:	50301
E Designation No:	Not reported
Date of RPAD Data:	11/2005

LOT 32,TAXBLOCK 491 (Continued) **S109318132**

Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

D39 **ACME REPAIR INC** **RCRA NonGen / NLR** **1000990412**
SE **328 FRONT ST** **FINDS** **NYR000003715**
< 1/8 **STATEN ISLAND, NY 10309**
0.089 mi.
471 ft. **Site 5 of 5 in cluster D**

Relative:
Lower

Actual:
10 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	ACME REPAIR INC
Facility address:	328 FRONT ST STATEN ISLAND, NY 10309
EPA ID:	NYR000003715
Mailing address:	ARTHUR KILL RD STATEN ISLAND, NY 10309
Contact:	Not reported
Contact address:	ARTHUR KILL RD STATEN ISLAND, NY 10309
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:	FELIX NODAR
Owner/operator address:	4220 ARTHUR KILL RD STATEN ISLAND, NY 10309
Owner/operator country:	US
Owner/operator telephone:	(718) 966-5336
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	FELIX NODAR
Owner/operator address:	4220 ARTHUR KILL RD STATEN ISLAND, NY 10309
Owner/operator country:	US
Owner/operator telephone:	(718) 966-5336
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

ACME REPAIR INC (Continued) **1000990412**

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
Facility name:	ACME REPAIR INC
Classification:	Not a generator, verified
Date form received by agency:	06/05/1995
Facility name:	ACME REPAIR INC
Classification:	Not a generator, verified
Date form received by agency:	04/25/1995
Facility name:	ACME REPAIR INC
Classification:	Large Quantity Generator
Violation Status:	No violations found

FINDS:

Registry ID: 110004513018

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.

E40 **STREET SPILL** **NY Spills** **S108638707**
NNE **BAY STREET/CLINTON STREET** **N/A**
< 1/8 **STATEN ISLAND, NY**
0.093 mi.
490 ft. **Site 1 of 8 in cluster E**

Relative:
Higher

Actual:
16 ft.

SPILLS:

Facility ID:	0703857
DER Facility ID:	333302
Facility Type:	ER
Site ID:	383880
DEC Region:	2
Spill Date:	7/5/2007
Spill Number/Closed Date:	0703857 / 7/18/2007
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response.

STREET SPILL (Continued) **S108638707**

Willing Responsible Party. Corrective action taken.

SWIS:	4301
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	7/5/2007
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:	7/5/2007
Spill Record Last Update:	7/18/2007
Spiller Name:	JOE KNOLLS
Spiller Company:	Not reported
Spiller Address:	BAY STREET/CLINTON STREET
Spiller City,St,Zip:	STATEN ISLAND, NY
Spiller Company:	001
Contact Name:	JOE KNOLLS
Contact Phone:	(718) 273-0845
DEC Memo:	Very heavy rains for 3 days - assume it is all gone
Remarks:	OIL SPILL IN STREET, ABOUT 100 FEET LONG UNKNOWN AMOUNT WENT INTO CATCH BASIN:

Material:

Site ID:	383880
Operable Unit ID:	1141208
Operable Unit:	01
Material ID:	2131408
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

E41
NNE
< 1/8
0.093 mi.
490 ft.

Relative:
Higher

Actual:
16 ft.

BAY ST/CLINTON
STATEN ISLAND, NY

Site 2 of 8 in cluster E

NY Spills **S104879593**
NY Hist Spills **N/A**

SPILLS:

Facility ID:	0009431
DER Facility ID:	244205
Facility Type:	ER
Site ID:	302259
DEC Region:	2

(Continued) **S104879593**

Spill Date:	11/16/2000
Spill Number/Closed Date:	0009431 / 4/5/2001
Spill Cause:	Traffic Accident
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	4301
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	11/16/2000
CID:	211
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:	11/16/2000
Spill Record Last Update:	4/5/2001
Spiller Name:	PASHKO CAMAJ
Spiller Company:	NY CITY TRANSIT
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	PASHKO CAMAJ
Contact Phone:	(718) 243-4581
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"CONTAINED AND CLEANED BY NYCT.
Remarks:	bus ran over debris causing product to spill - spill cleaned up

Material:

Site ID:	302259
Operable Unit ID:	830364
Operable Unit:	01
Material ID:	543375
Material Code:	0015
Material Name:	Motor Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5
Units:	Gallons
Recovered:	5
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

NY Hist Spills:

Region of Spill:	2
Spill Number/Closed Date:	0009431 / 04/05/01
Investigator:	TIBBE
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported

(Continued) **S104879593**

Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 11/16/2000 12:30
Reported to Dept Date/Time: 11/16/00 12:35
SWIS: 64
Spiller Name: NY CITY TRANSIT
Spiller Contact: PASHKO CAMAJ
Spiller Phone: (718) 243-4581
Spiller Contact: PASHKO CAMAJ
Spiller Phone: (718) 243-4581
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Traffic Accident
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 07
Spill Notifier: Responsible Party
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 11/16/00
Date Spill Entered In Computer Data File: Not reported
Update Date: 04/05/01
Is Updated: False

Tank:

Material:
Material Class Type: Petroleum
Quantity Spilled: 5
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 5
Unkonwn Quantity Recovered: False
Material: MOTOR OIL
Class Type: MOTOR OIL
Times Material Entry In File: 508
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: CONTAINED AND CLEANED BY NYCT.
Remark: bus ran over debris causing product to spill - spill cleaned up

F42 **STAPLETON COURT** **MANIFEST** **S111314355**
South **40 PROSPECT STREET** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.096 mi.
508 ft. **Site 1 of 5 in cluster F**

Relative:
Lower

Actual:
15 ft.

NY MANIFEST:

EPA ID:	NYR000176420
Country:	USA
Mailing Name:	STAPLETON COURT
Mailing Contact:	BAY STREET BUILDERS LLC
Mailing Address:	150 MYRTLE AVENUE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11201
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

No Manifest Records Available

F43 **MTA NYCT - STAPLETON STATION -SIRT** **RCRA-SQG** **1010566448**
South **BAY & PROSPECT STS** **NYR000150979**
< 1/8 **STATEN ISLAND, NY 10304**
0.103 mi.
544 ft. **Site 2 of 5 in cluster F**

Relative:
Higher

Actual:
17 ft.

RCRA-SQG:

Date form received by agency:	08/17/2007
Facility name:	MTA NYCT - STAPLETON STATION -SIRT
Facility address:	BAY & PROSPECT STS STATEN ISLAND, NY 10304
EPA ID:	NYR000150979
Mailing address:	BROADWAY 5TH FLOOR NEW YORK, NY 10004
Contact:	LUMINITA MARINESCU
Contact address:	BROADWAY 5TH FLOOR NEW YORK, NY 10004
Contact country:	US
Contact telephone:	(646) 252-3506
Contact email:	LUMINITA.MARINESCU@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 FLOOR NEW YORK, NY 10004
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	State
Owner/Operator Type:	Owner

MTA NYCT - STAPLETON STATION -SIRT (Continued) **1010566448**

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: Operator
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: 08/16/2007
Facility name: MTA NYCT - STAPLETON STATION -SIRT
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: D008
Waste name: LEAD

Violation Status: No violations found

F44 **STAPLETON COURT** **RCRA-LQG** **1014399553**
South **551 BAY ST** **NYR000176420**
< 1/8 **STATEN ISLAND, NY 10304**
0.104 mi.
548 ft. **Site 3 of 5 in cluster F**

Relative:
Higher

Actual:
17 ft.

RCRA-LQG:
Date form received by agency: 06/30/2010
Facility name: STAPLETON COURT
Facility address: 551 BAY ST
STATEN ISLAND, NY 10304
EPA ID: NYR000176420
Mailing address: MYRTLE AVE
BROOKLYN, NY 11201
Contact: JOSEPH FERRARA
Contact address: MYRTLE AVE

STAPLETON COURT (Continued) **1014399553**

BROOKLYN, NY 11201
Contact country: US
Contact telephone: (718) 422-9999
Telephone ext.: 25
Contact email: JFERRARA@BFCNYC.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: BAY STREET OWNERS LLC
Owner/operator address: MYRTLE AVE
BROOKLYN, NY 11201
Owner/operator country: US
Owner/operator telephone: (718) 422-9960
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 06/29/2010
Owner/Op end date: Not reported

Owner/operator name: BFC PARTNERS
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: 06/29/2010
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

STAPLETON COURT (Continued) **1014399553**

Used oil transporter: No

Hazardous Waste Summary:
Waste code: D008
Waste name: LEAD

Violation Status: No violations found

45
WNW
< 1/8
0.111 mi.
584 ft.

Relative:
Higher

Actual:
40 ft.

61 WILLIAM **NY Spills** **S102149134**
STATEN ISLAND, NY **NY Hist Spills** **N/A**

SPILLS:
Facility ID: 9411920
DER Facility ID: 96396
Facility Type: ER
Site ID: 109945
DEC Region: 2
Spill Date: 12/6/1994
Spill Number/Closed Date: 9411920 / 7/14/2003
Spill Cause: Unknown
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 4301
Investigator: SIGONA
Referred To: Not reported
Reported to Dept: 12/7/1994
CID: Not reported
Water Affected: Not reported
Spill Source: Unknown
Spill Notifier: Local Agency
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: 1/24/1995
Spill Record Last Update: 7/14/2003
Spiller Name: Not reported
Spiller Company: UNKNOWN
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: F.D. FLUSHED SEWER LINES DIDN'T HELP. CALLED AT 11:OO ANSWERING MACHINE. CALLED DEP (Lochan), DEP noticed fueol oil odor in sewer.

Material:
Site ID: 109945
Operable Unit ID: 1009771
Operable Unit: 01
Material ID: 374259
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM

(Continued) **S102149134**

Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

NY Hist Spills:
Region of Spill: 2
Spill Number/Closed Date: 9411920 / Not Closed
Investigator: SIGONA
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 12/06/1994 13:30
Reported to Dept Date/Time: 12/07/94 10:29
SWIS: 64
Spiller Name: UNKNOWN
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Unknown
Reported to Dept: Air
Water Affected: Not reported
Spill Source: 09
Spill Notifier: Federal Government
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 01/24/95
Date Spill Entered In Computer Data File: Not reported
Update Date: 01/24/95
Is Updated: False

Tank:

Material:
Material Class Type: Petroleum
Quantity Spilled: -1

(Continued) **S102149134**

Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 10/10/95: This is additional information about material spilled from the translation of the old spill file: ODOR.
Remark: F.D. FLUSHED SEWER LINES DIDN T HELP. CALLED AT 11:OO ANSWERING MACHINE. CALLED RONALD LACHAN, SAID HE SMELLED FUEL OIL IN SEWER. MAYBE RELATED TO TANK FAILURE. NEED FOLLOW-UP.

G46 **VAN DUZER ST & PROSPECT S** **NY Spills** **S102147328**
WSW **VAN DUZER ST & PROSPECT S** **NY Hist Spills** **N/A**
< 1/8 **STATEN ISLAND, NY**
0.113 mi.
597 ft. **Site 1 of 5 in cluster G**

Relative:
Higher

Actual:
43 ft.

SPILLS:
Facility ID: 9310127
DER Facility ID: 261949
Facility Type: ER
Site ID: 325179
DEC Region: 2
Spill Date: 11/19/1993
Spill Number/Closed Date: 9310127 / 11/22/1993
Spill Cause: Unknown
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 4301
Investigator: SJMILLER
Referred To: Not reported
Reported to Dept: 11/19/1993
CID: Not reported
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Affected Persons
Cleanup Ceased: 11/22/1993
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 11/22/1993
Spill Record Last Update: 1/30/1998
Spiller Name: Not reported
Spiller Company: UNK
Spiller Address: Not reported
Spiller City,St,Zip: ***UPDATE***, ZZ
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 "MILLER/CAMMISA"10/10/95: This is additional information about material spilled from the translation of the old spill file: DARK OIL

VAN DUZER ST & PROSPECT S (Continued) **S102147328**

STREAM OF O.
Remarks: OIL HAS BEEN RUNING INTO SEWER FOR ~2 WKS. YARD ON CORNER IS A AIRPORT TAXI 442-2500 ON CABS. I WAS TOLD TANKS WERE FILLED BUT VENTS REMAIN, NO FILL PORTS OR FUMES.

Material:
Site ID: 325179
Operable Unit ID: 989093
Operable Unit: 01
Material ID: 392762
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Pounds
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

NY Hist Spills:
Region of Spill: 2
Spill Number/Closed Date: 9310127 / 11/22/93
Investigator: MILLER/CAMMISA
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 11/19/1993 14:00
Reported to Dept Date/Time: 11/19/93 14:07
SWIS: 64
Spiller Name: UNK
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Unknown
Reported to Dept: In Sewer
Water Affected: Not reported
Spill Source: 01
Spill Notifier: Affected Persons
PBS Number: Not reported
Cleanup Ceased: 11/22/93
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

VAN DUZER ST & PROSPECT S (Continued) **S102147328**

Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 11/22/93
Date Spill Entered In Computer Data File: Not reported
Update Date: 01/30/98
Is Updated: False

Tank:

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Pounds
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 10/10/95: This is additional information about material spilled from the translation of the old spill file: DARK OIL STREAM OF O.
Remark: OIL HAS BEEN RUNING INTO SEWER FOR 2 WKS. YARD ON CORNER IS A AIRPORT TAXI 442-2500 ON CABS. I WAS TOLD TANKS WERE FILLED BUT VENTS REMAIN, NO FILL PORTS OR FUMES.

G47 **MOLA MOLIC** **AST** **A100138985**
WSW **337 VAN DUZER STREET** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.113 mi.
599 ft. **Site 2 of 5 in cluster G**

Relative:
Higher

Actual:
45 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Unregulated
Facility Id: 2-159166
Program Type: PBS
UTM X: 577881.56113000005
UTM Y: 4498045.1290800003
Expiration Date: N/A

Affiliation Records:
Site Id: 5367
Affiliation Type: Owner
Company Name: MOLA MOLIC
Contact Type: Not reported
Contact Name: Not reported
Address1: 20 JACKSON AVE
Address2: Not reported
City: STATEN ISLAND
State: NY
Zip Code: 10305
Country Code: 001
Phone: (718) 447-7614
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported

MOLA MOLIC (Continued) **A100138985**

Modified By:	TRANSLAT
Date Last Modified:	3/4/2004
Site Id:	5367
Affiliation Type:	Mail Contact
Company Name:	MOLA MOLIC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	337 VAN DUZER ST.
Address2:	Not reported
City:	STATEN ISLAND
State:	NY
Zip Code:	10304
Country Code:	001
Phone:	(718) 447-7614
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004
Site Id:	5367
Affiliation Type:	On-Site Operator
Company Name:	MOLA MOLIC
Contact Type:	Not reported
Contact Name:	MOLA MOLIC
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 273-5496
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004
Site Id:	5367
Affiliation Type:	Emergency Contact
Company Name:	MOLA MOLIC
Contact Type:	Not reported
Contact Name:	LATIF MOLIC
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 273-5496
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

MOLA MOLIC (Continued) **A100138985**

Tank Info:

Tank Number:	1
Tank Id:	56114

Equipment Records:

B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
I00 - Overfill - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	05/01/1967
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

G48 **EDR US Hist Auto Stat** **1015434610**
WSW **337 VAN DUZER ST** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.113 mi.
599 ft. **Site 3 of 5 in cluster G**

Relative:
Higher

Actual:
45 ft.

EDR Historical Auto Stations:

Name:	DEJOYS CAR SERVICE
Year:	2005
Address:	337 VAN DUZER ST
Name:	DEJOYS CAR SERVICE
Year:	2006
Address:	337 VAN DUZER ST

G49 **MOLA MOLIC** **UST** **U004076802**
WSW **337 VAN DUZER STREET** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.113 mi.
599 ft. **Site 4 of 5 in cluster G**

Relative:
Higher

Actual:
45 ft.

UST:

Id/Status:	2-159166 / Unregulated
Region:	STATE
DEC Region:	2
Program Type:	PBS
Expiration Date:	N/A
UTM X:	577881.56113000005

MOLA MOLIC (Continued) **U004076802**

UTM Y: 4498045.1290800003

Affiliation Records:

Site Id: 5367
Affiliation Type: Owner
Company Name: MOLA MOLIC
Contact Type: Not reported
Contact Name: Not reported
Address1: 20 JACKSON AVE
Address2: Not reported
City: STATEN ISLAND
State: NY
Zip Code: 10305
Country Code: 001
Phone: (718) 447-7614
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 5367
Affiliation Type: Mail Contact
Company Name: MOLA MOLIC
Contact Type: Not reported
Contact Name: Not reported
Address1: 337 VAN DUZER ST.
Address2: Not reported
City: STATEN ISLAND
State: NY
Zip Code: 10304
Country Code: 001
Phone: (718) 447-7614
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 5367
Affiliation Type: On-Site Operator
Company Name: MOLA MOLIC
Contact Type: Not reported
Contact Name: MOLA MOLIC
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 273-5496
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 5367

MOLA MOLIC (Continued) **U004076802**

Affiliation Type:	Emergency Contact
Company Name:	MOLA MOLIC
Contact Type:	Not reported
Contact Name:	LATIF MOLIC
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 273-5496
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Site ID:	5367
Tank Number:	010
Tank ID:	19632
Tank Status:	Closed - In Place
Tank Type:	Steel/carbon steel
Pipe Model:	Not reported

Equipment Records:

A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None

Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	03/01/1993
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Registered:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Site ID:	5367
Tank Number:	111
Tank ID:	19623
Tank Status:	Closed - In Place
Tank Type:	Steel/carbon steel
Pipe Model:	Not reported

Equipment Records:

B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

MOLA MOLIC (Continued) **U004076802**

A00 - Tank Internal Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
I00 - Overfill - None

Install Date: Not reported
Capacity Gallons: 550
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: 03/01/1993
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Registered: True
Modified By: TRANSLAT
Last Modified: 03/04/2004

Site ID: 5367

Tank Number: 222
Tank ID: 19624
Tank Status: Closed - In Place
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
I00 - Overfill - None

Install Date: Not reported
Capacity Gallons: 550
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: 03/01/1993
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Registered: True
Modified By: TRANSLAT
Last Modified: 03/04/2004

Site ID: 5367

Tank Number: 333
Tank ID: 19625
Tank Status: Closed - In Place
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None

MOLA MOLIC (Continued) **U004076802**

H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None

Install Date: Not reported
Capacity Gallons: 550
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: 03/01/1993
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Registered: True
Modified By: TRANSLAT
Last Modified: 03/04/2004

Site ID: 5367

Tank Number: 444
Tank ID: 19626
Tank Status: Closed - In Place
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
I00 - Overfill - None

Install Date: Not reported
Capacity Gallons: 550
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: 03/01/1993
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Registered: True
Modified By: TRANSLAT
Last Modified: 03/04/2004

Site ID: 5367

Tank Number: 555
Tank ID: 19627
Tank Status: Closed - In Place
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

MOLA MOLIC (Continued) **U004076802**

H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
I00 - Overfill - None

Install Date: Not reported
Capacity Gallons: 550
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: 03/01/1993
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Registered: True
Modified By: TRANSLAT
Last Modified: 03/04/2004

Site ID: 5367

Tank Number: 666
Tank ID: 19628
Tank Status: Closed - In Place
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
I00 - Overfill - None

Install Date: Not reported
Capacity Gallons: 550
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: 03/01/1993
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Registered: True
Modified By: TRANSLAT
Last Modified: 03/04/2004

Site ID: 5367

Tank Number: 777
Tank ID: 19629
Tank Status: Closed - In Place
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping

MOLA MOLIC (Continued) **U004076802**

F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
I00 - Overfill - None

Install Date: Not reported
Capacity Gallons: 550
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: 03/01/1993
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Registered: True
Modified By: TRANSLAT
Last Modified: 03/04/2004

Site ID: 5367

Tank Number: 888
Tank ID: 19630
Tank Status: Closed - In Place
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
I00 - Overfill - None

Install Date: Not reported
Capacity Gallons: 550
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: 03/01/1993
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Registered: True
Modified By: TRANSLAT
Last Modified: 03/04/2004

Site ID: 5367

Tank Number: 999
Tank ID: 19631
Tank Status: Closed - In Place
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

MOLA MOLIC (Continued) **U004076802**

A00 - Tank Internal Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
I00 - Overfill - None

Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	03/01/1993
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Registered:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004

G50 **MOLA MOLIC** **HIST UST** **U001836783**
WSW **337 VAN DUZER STREET** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.113 mi.
599 ft. **Site 5 of 5 in cluster G**

Relative:
Higher

Actual:
45 ft.

HIST UST:

PBS Number:	2-159166
SPDES Number:	Not reported
Emergency Contact:	LATIF MOLIC
Emergency Telephone:	(718) 273-5496
Operator:	MOLA MOLIC
Operator Telephone:	(718) 273-5496
Owner Name:	MOLA MOLIC
Owner Address:	20 JACKSON AVE
Owner City,St,Zip:	STATEN ISLAND, NY 10305
Owner Telephone:	(718) 447-7614
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	MOLA MOLIC
Mailing Address:	337 VAN DUZER ST.
Mailing Address 2:	Not reported
Mailing City,St,Zip:	STATEN ISLAND, NY 10304
Mailing Contact:	Not reported
Mailing Telephone:	(718) 447-7614
Owner Mark:	Second 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:	6401
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:	03/23/1999
Expiration Date:	02/24/2004
Renew Flag:	False

MOLA MOLIC (Continued) **U001836783**

Renewal Date:	Not reported
Total Capacity:	550
FAMT:	False
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:	64
Town or City:	01
Region:	2

Tank Id:	010
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
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
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	03/01/1993
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	111
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
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
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity

MOLA MOLIC (Continued) **U001836783**

Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 03/01/1993
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 222
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: Not reported
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
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
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Gravity
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 03/01/1993
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 333
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: Not reported
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
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
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Gravity
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing

MOLA MOLIC (Continued) **U001836783**

Date Closed: 03/01/1993
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 444
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: Not reported
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
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
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Gravity
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 03/01/1993
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 555
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: Not reported
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
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
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Gravity
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 03/01/1993
Test Method: Not reported
Deleted: False

MOLA MOLIC (Continued) **U001836783**

Updated:	True
Lat/long:	Not reported

Tank Id:	666
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
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
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	03/01/1993
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	777
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
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
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	03/01/1993
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

MOLA MOLIC (Continued) **U001836783**

Tank Id:	888
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
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
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	03/01/1993
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	999
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
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
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	03/01/1993
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

H51 **LOT 37,TAXBLOCK 490** **E DESIGNATION** **S109318133**
SSW **328 PROSPECT STREET** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.114 mi.
604 ft. **Site 1 of 3 in cluster H**

Relative:
Higher

Actual:
25 ft.

E DESIGNATION:

Tax Lot(s):	37
E-No:	E-168
Effective Date:	10/25/2006
Satisfaction Date:	Not reported
Ceqr Number:	06DME001R
Ulurp Number:	060471ZMR
Zoning Map No:	21c 21d
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code:	SI
Community District:	501
Census Tract:	15
Census Block:	1028
School District:	31
City Council District:	49
Fire Company:	L077
Health Area:	51
Police Precinct:	120
Zone District 1:	M2-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M2-1
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	G2
Land Use Category:	10
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	THE FELIX NODAR & PUR
Lot Area:	000006500
Total Building Floor Area:	00000004560
Commercial Floor Area:	00000004560
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000004560
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	001.00
Residential Units:	00000
Non and Residential Units:	00001
Lot Frontage:	0065.00
Lot Depth:	0100.00
Building Frontage:	0048.00
Building Depth:	0095.00
Proximity Code:	2
Irregular Lot Code:	N
Lot Type:	3

LOT 37,TAXBLOCK 490 (Continued) **S109318133**

Basement Type Grade:	5
Land Assessed Value:	00000015885
Total Assessed Value:	00000094500
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1985
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.70
Maximum Allowable Far:	02.00
Borough Code:	5
Borough Tax Block And Lot:	5004900037
Condominium Number:	00000
Census Tract 2:	0015
X Coordinate:	0963482
Y Coordinate:	0168395
Zoning Map:	21C
Sanborn Map:	501 034
Tax Map:	50301
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1

Tax Lot(s):	37
E-No:	E-168
Effective Date:	10/25/2006
Satisfaction Date:	Not reported
Ceqr Number:	06DME001R
Ulurp Number:	060471ZMR
Zoning Map No:	21c 21d
Description:	Window Wall Attenuation & Alternate Ventilation
Borough Code:	SI
Community District:	501
Census Tract:	15
Census Block:	1028
School District:	31
City Council District:	49
Fire Company:	L077
Health Area:	51
Police Precinct:	120
Zone District 1:	M2-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M2-1

LOT 37,TAXBLOCK 490 (Continued) **S109318133**

All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	G2
Land Use Category:	10
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	THE FELIX NODAR & PUR
Lot Area:	000006500
Total Building Floor Area:	00000004560
Commercial Floor Area:	00000004560
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000004560
Storage Floor Area:	00000000000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	001.00
Residential Units:	00000
Non and Residential Units:	00001
Lot Frontage:	0065.00
Lot Depth:	0100.00
Building Frontage:	0048.00
Building Depth:	0095.00
Proximity Code:	2
Irregular Lot Code:	N
Lot Type:	3
Basement Type Grade:	5
Land Assessed Value:	00000015885
Total Assessed Value:	00000094500
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1985
Year Built Code:	Not reported
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0000.70
Maximum Allowable Far:	02.00
Borough Code:	5
Borough Tax Block And Lot:	5004900037
Condominium Number:	00000
Census Tract 2:	0015
X Coordinate:	0963482
Y Coordinate:	0168395
Zoning Map:	21C
Sanborn Map:	501 034
Tax Map:	50301
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006

LOT 37,TAXBLOCK 490 (Continued) **S109318133**

Date of Mass Appraisal Data: 11/2005
Date of Political and Adm Data: 08/2005
Pluto-Base Map Indicator: 1

E52 **H&S AUTO SERVICE INC.** **AST** **A100320234**
NNE **406 BAY STREET** **N/A**
< 1/8 **STATEN ISLAND, NY 10301**
0.117 mi.
618 ft. **Site 3 of 8 in cluster E**

Relative:
Higher

Actual:
16 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-610804
Program Type: PBS
UTM X: 578145.81249000004
UTM Y: 4498352.7051999997
Expiration Date: 2013/03/28

Affiliation Records:
Site Id: 395578
Affiliation Type: Owner
Company Name: SANJEEVA PERERA
Contact Type: Not reported
Contact Name: Not reported
Address1: 245 LITTLE CLOVE RD
Address2: Not reported
City: STATEN ISLAND
State: NY
Zip Code: 10301
Country Code: 001
Phone: (718) 556-9294
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 3/28/2008

Site Id: 395578
Affiliation Type: Mail Contact
Company Name: H&S AUTO REPAIR SERVICE INC
Contact Type: Not reported
Contact Name: SANJEEVA PERERA
Address1: 406 BAY STREET
Address2: Not reported
City: STATEN ISLAND
State: NY
Zip Code: 10301
Country Code: 001
Phone: (718) 556-9294
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 3/28/2008

Site Id: 395578

H&S AUTO SERVICE INC. (Continued) **A100320234**

Affiliation Type:	On-Site Operator
Company Name:	H&S AUTO SERVICE INC.
Contact Type:	Not reported
Contact Name:	SANJEEVA PERERA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 556-9294
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/28/2008

Site Id:	395578
Affiliation Type:	Emergency Contact
Company Name:	SANJEEVA PERERA
Contact Type:	Not reported
Contact Name:	HEMA PERERA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 448-1001
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/28/2008

Tank Info:

Tank Number:	001
Tank Id:	222249
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	250
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:	03/28/2008

E53 **EDR US Hist Auto Stat** **1015475356**
NNE **406 BAY ST** **N/A**
< 1/8 **STATEN ISLAND, NY 10301**
0.117 mi.
618 ft. **Site 4 of 8 in cluster E**

Relative:
Higher

Actual:
16 ft.

EDR Historical Auto Stations:

Name:	PAULIES AUTOMOTIVE SERVICE
Year:	2001
Address:	406 BAY ST
Name:	PAULIES AUTOMOTIVE SERVICE
Year:	2002
Address:	406 BAY ST
Name:	PAULIES AUTOMOTIVE SERVICE INC
Year:	2003
Address:	406 BAY ST
Name:	PAULIES AUTOMOTIVE SERVICE
Year:	2004
Address:	406 BAY ST
Name:	HNI AUTO SERVICE
Year:	2009
Address:	406 BAY ST
Name:	H & I AUTO SVC & REPAIR CTR
Year:	2010
Address:	406 BAY ST
Name:	H & S AUTO REPAIR SERVICE
Year:	2011
Address:	406 BAY ST
Name:	H & S AUTO REPAIR SERVICE
Year:	2012
Address:	406 BAY ST

E54 **EDR US Hist Auto Stat** **1015473696**
NNE **404 BAY ST** **N/A**
< 1/8 **STATEN ISLAND, NY 10301**
0.119 mi.
630 ft. **Site 5 of 8 in cluster E**

Relative:
Higher

Actual:
16 ft.

EDR Historical Auto Stations:

Name:	BAY RADIATOR REPR
Year:	1999
Address:	404 BAY ST
Name:	BAY RADIATOR REPR
Year:	2000
Address:	404 BAY ST
Name:	BAY RADIATOR REPAIR INC
Year:	2003
Address:	404 BAY ST
Name:	BAY RADIATOR REPAIR INC
Year:	2004

(Continued) **1015473696**

Address: 404 BAY ST

H55 **589 PROSPECT AVE.** **NY Spills** **S102147479**
SW **589 PROSPECT AVE.** **NY Hist Spills** **N/A**
< 1/8 **NYC, NY**
0.122 mi.
643 ft. **Site 2 of 3 in cluster H**

Relative:
Higher

Actual:
35 ft.

SPILLS:

Facility ID:	9311563
DER Facility ID:	157349
Facility Type:	ER
Site ID:	188389
DEC Region:	2
Spill Date:	12/28/1993
Spill Number/Closed Date:	9311563 / 12/28/1993
Spill Cause:	Human Error
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	3101
Investigator:	CAMMISA
Referred To:	Not reported
Reported to Dept:	12/28/1993
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Responsible Party
Cleanup Ceased:	12/28/1993
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	12/28/1993
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	BAERENKLAU OIL CO.
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:	CLEANED UP WITH SPEEDY DRY.

Material:

Site ID:	188389
Operable Unit ID:	990184
Operable Unit:	01
Material ID:	390595
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	3
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported

589 PROSPECT AVE. (Continued) **S102147479**

Oxygenate: False

Tank Test:

NY Hist Spills:

Region of Spill:	2
Spill Number/Closed Date:	9311563 / 12/28/93
Investigator:	CAMMISA
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	12/28/1993 08:00
Reported to Dept Date/Time:	12/28/93 09:54
SWIS:	62
Spiller Name:	BAERENKLAU OIL CO.
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Human Error
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	09
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Cleanup Ceased:	12/28/93
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	12/28/93
Date Spill Entered In Computer Data File:	Not reported
Update Date:	/ /
Is Updated:	False

Tank:

Material:

Material Class Type:	Petroleum
Quantity Spilled:	3
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	#2 FUEL OIL
Class Type:	#2 FUEL OIL

589 PROSPECT AVE. (Continued) **S102147479**

Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Remark: CLEANED UP WITH SPEEDY DRY.

H56 **304 PROSPECT AVE/GOOD HUE** **LTANKS** **S100167639**
SSW **304 PROSPECT AVENUE** **HIST LTANKS** **N/A**
< 1/8 **NEW YORK CITY, NY**
0.123 mi.
652 ft. **Site 3 of 3 in cluster H**

Relative:
Higher

Actual:
25 ft.

LTANKS:
Site ID: 76435
Spill Number/Closed Date: 8809222 / 3/5/2003
Spill Date: 2/27/1989
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: 4301
Investigator: ADMIN. CLOSED
Referred To: Not reported
Reported to Dept: 2/27/1989
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: 3/2/1989
Spill Record Last Update: 3/14/2003
Spiller Name: Not reported
Spiller Company: GOOD HUE CENTER
Spiller Address: 304 PROSPECT AVENUE
Spiller City,St,Zip: STATEN ISLAND, NY
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 71448
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ADMIN.CLOSED"03/05/2003- Closed Due To The Nature / Extent Of The Spill Report
Remarks: 3K TANK FAILED PETRO TITE WITH A LEAK RATE OF .156GPH, WILL EXCAVATE, ISOLATE & RETEST.CLOSED DUE TO LACK OF ANY RECENT INFO- DOES NOT MEET ANY CLEAN UP REQUIREMENTS.

Material:
Site ID: 76435
Operable Unit ID: 925134
Operable Unit: 01
Material ID: 453983

304 PROSPECT AVE/GOOD HUE (Continued) **S100167639**

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: 76435
Spill Tank Test: 1535203
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

HIST LTANKS:
Region of Spill: 2
Spill Number/Closed Date: 8809222 / Not Closed
Spill Date: 02/27/1989
Spill Time: 17:05
Spill Cause: Tank Test Failure
Resource Affectd: Groundwater
Water Affected: Not reported
Spill Source: Other Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: / /
Cleanup Meets Standard: False
Investigator: BATTISTA
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 02/27/89
Reported to Department Time: 18:52
SWIS: 64
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: GOOD HUE CENTER
Spiller Address: 304 PROSPECT AVENUE
Spiller City,St,Zip: STATEN ISLAND, NY
Spiller Cleanup Date: / /
Facility Contact: Not reported

304 PROSPECT AVE/GOOD HUE (Continued) **S100167639**

Facility Phone: (718) 447-7828
Facility Extention: Not reported
Spill Notifier: Tank Tester
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 03/02/89
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 11/27/92
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: 0
Test Method: Not reported
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Spill Cause: 3K TANK FAILED PETRO TITE WITH A LEAK RATE OF .156GPH, WILL EXCAVATE, ISOLATE RETEST.

I57 **LOT 37,TAXBLOCK 491** **E DESIGNATION** **S109318134**
SE **346 FRONT STREET** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.124 mi.
655 ft. **Site 1 of 4 in cluster I**

Relative:
Lower

Actual:
10 ft.

E DESIGNATION:
Tax Lot(s): 37
E-No: E-168
Effective Date: 10/25/2006
Satisfaction Date: Not reported
Ceqr Number: 06DME001R
Ulurp Number: 060471ZMR
Zoning Map No: 21c 21d
Description: Underground Gasoline Storage Tanks* Testing Protocol.
Borough Code: SI
Community District: 501
Census Tract: 15

LOT 37,TAXBLOCK 491 (Continued) **S109318134**

Census Block:	1030
School District:	31
City Council District:	49
Fire Company:	L077
Health Area:	51
Police Precinct:	120
Zone District 1:	M2-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M2-1
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	E9
Land Use Category:	06
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	FRONT STREET HOLDINGS
Lot Area:	000005000
Total Building Floor Area:	00000005000
Commercial Floor Area:	00000005000
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000005000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000
Floor Area,Total Bld Source Code:	7
Number of Buildings:	00001
Number of Floors:	001.00
Residential Units:	00000
Non and Residential Units:	00001
Lot Frontage:	0050.00
Lot Depth:	0100.00
Building Frontage:	0050.00
Building Depth:	0100.00
Proximity Code:	3
Irregular Lot Code:	N
Lot Type:	5
Basement Type Grade:	5
Land Assessed Value:	00000013860
Total Assessed Value:	00000038745
Land Exempt Value:	00000000000
Total Exempt Value:	00000000000
Year Built:	1931
Year Built Code:	E
Year Altered1:	0000
Year Altered2:	0000
Historic District Name:	Not reported
Landmark Name:	Not reported
Built Floor Area Ratio-Far:	0001.00
Maximum Allowable Far:	02.00
Borough Code:	5
Borough Tax Block And Lot:	5004910037
Condominium Number:	00000

LOT 37,TAXBLOCK 491 (Continued) **S109318134**

Census Tract 2:	0015
X Coordinate:	0963510
Y Coordinate:	0168191
Zoning Map:	21C
Sanborn Map:	501 036
Tax Map:	50301
E Designation No:	Not reported
Date of RPAD Data:	11/2005
Date of DCAS Data:	01/2006
Date of Zoning Data:	11/2005
Date of Major Property Data:	11/2005
Date of Landmark Data:	12/2005
Date of Base Map Data:	01/2006
Date of Mass Appraisal Data:	11/2005
Date of Political and Adm Data:	08/2005
Pluto-Base Map Indicator:	1
Tax Lot(s):	37
E-No:	E-168
Effective Date:	10/25/2006
Satisfaction Date:	Not reported
Ceqr Number:	06DME001R
Ulurp Number:	060471ZMR
Zoning Map No:	21c 21d
Description:	Window Wall Attenuation & Alternate Ventilation
Borough Code:	SI
Community District:	501
Census Tract:	15
Census Block:	1030
School District:	31
City Council District:	49
Fire Company:	L077
Health Area:	51
Police Precinct:	120
Zone District 1:	M2-1
Zone District 2:	Not reported
Commercial Overlay1:	Not reported
Commercial Overlay2:	Not reported
Special Purpose District1:	Not reported
Special Purpose District2:	Not reported
All Components1:	M2-1
All Components2:	Not reported
Split Boundary Indicator:	N
Building Class:	E9
Land Use Category:	06
Number of Easements:	0
Owner, Type of Code:	Not reported
Owner Name:	FRONT STREET HOLDINGS
Lot Area:	000005000
Total Building Floor Area:	00000005000
Commercial Floor Area:	00000005000
Office Floor Area:	00000000000
Retail Floor Area:	00000000000
Garage Floor Area:	00000000000
Storage Floor Area:	00000005000
Factory Floor Area:	00000000000
Other Floor Area:	00000000000

LOT 37,TAXBLOCK 491 (Continued) **S109318134**

Floor Area,Total Bld Source Code: 7
Number of Buildings: 00001
Number of Floors: 001.00
Residential Units: 00000
Non and Residential Units: 00001
Lot Frontage: 0050.00
Lot Depth: 0100.00
Building Frontage: 0050.00
Building Depth: 0100.00
Proximity Code: 3
Irregular Lot Code: N
Lot Type: 5
Basement Type Grade: 5
Land Assessed Value: 00000013860
Total Assessed Value: 00000038745
Land Exempt Value: 00000000000
Total Exempt Value: 00000000000
Year Built: 1931
Year Built Code: E
Year Altered1: 0000
Year Altered2: 0000
Historic District Name: Not reported
Landmark Name: Not reported
Built Floor Area Ratio-Far: 0001.00
Maximum Allowable Far: 02.00
Borough Code: 5
Borough Tax Block And Lot: 5004910037
Condominium Number: 00000
Census Tract 2: 0015
X Coordinate: 0963510
Y Coordinate: 0168191
Zoning Map: 21C
Sanborn Map: 501 036
Tax Map: 50301
E Designation No: Not reported
Date of RPAD Data: 11/2005
Date of DCAS Data: 01/2006
Date of Zoning Data: 11/2005
Date of Major Property Data: 11/2005
Date of Landmark Data: 12/2005
Date of Base Map Data: 01/2006
Date of Mass Appraisal Data: 11/2005
Date of Political and Adm Data: 08/2005
Pluto-Base Map Indicator: 1

F58 **PROSPECT 88 REALTY, LLC** **AST** **A100300624**
South **560 BAY STREET** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.125 mi.
660 ft. **Site 4 of 5 in cluster F**

Relative:
Higher

Actual:
17 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Unregulated
Facility Id: 2-111600
Program Type: PBS
UTM X: 578097.38167999999

PROSPECT 88 REALTY, LLC (Continued) **A100300624**

UTM Y: 4497878.0883200001
Expiration Date: N/A

Affiliation Records:
Site Id: 3483
Affiliation Type: Owner
Company Name: PROSPECT 88 REALTY, LLC
Contact Type: Not reported
Contact Name: Not reported
Address1: 560 BAY STREET
Address2: Not reported
City: STATEN ISLAND
State: NY
Zip Code: 10304
Country Code: 001
Phone: (718) 765-1810
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 3483
Affiliation Type: Mail Contact
Company Name: DENNIS VEE
Contact Type: Not reported
Contact Name: Not reported
Address1: 94 PEARSALL STREET
Address2: Not reported
City: STATEN ISLAND
State: NY
Zip Code: 10305
Country Code: 001
Phone: (718) 765-1810
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 3483
Affiliation Type: On-Site Operator
Company Name: PROSPECT 88 REALTY, LLC
Contact Type: Not reported
Contact Name: EILIN REALTY CORP
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 273-0055
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

PROSPECT 88 REALTY, LLC (Continued) **A100300624**

Site Id:	3483
Affiliation Type:	Emergency Contact
Company Name:	PROSPECT 88 REALTY, LLC
Contact Type:	Not reported
Contact Name:	EILIN REALTY CORP
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 273-0055
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank Id:	10118

Equipment Records:

G03 - Tank Secondary Containment - Vault (w/o access)
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
C01 - Pipe Location - Aboveground
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:	Not reported
Capacity Gallons:	4000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	11/13/2002
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004

F59 **EILIN REALTY CORP** **HIST UST** **U000397991**
South **560 BAY ST** **N/A**
< 1/8 **STATEN ISLAND, NY 10304**
0.125 mi.
660 ft. **Site 5 of 5 in cluster F**

Relative:
Higher

Actual:
17 ft.

HIST UST:

PBS Number:	2-111600
SPDES Number:	Not reported
Emergency Contact:	EILIN REALTY CORP
Emergency Telephone:	(718) 273-0055

EILIN REALTY CORP (Continued) **U000397991**

Operator:	EILIN REALTY CORP
Operator Telephone:	(718) 273-0055
Owner Name:	EILIN REALTY CORP
Owner Address:	560 BAY ST
Owner City,St,Zip:	STATEN ISLAND, NY 10304
Owner Telephone:	(718) 273-0055
Owner Type:	Not reported
Owner Subtype:	Not reported
Mailing Name:	EILIN REALTY CORP
Mailing Address:	560 BAY ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	STATEN ISLAND, NY 10304
Mailing Contact:	JOEL GEVARTER
Mailing Telephone:	(718) 273-0055
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:	560 BAY ST
SWIS ID:	6401
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:	05/21/1992
Expiration Date:	07/07/1997
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:	64
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND, VAULTED, WITH ACCESS
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:	None

EILIN REALTY CORP (Continued) **U000397991**

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

I60 **EDR US Hist Auto Stat** **1015442185**
SE **350 FRONT ST** **N/A**
1/8-1/4 **STATEN ISLAND, NY 10304**
0.132 mi.
697 ft. **Site 2 of 4 in cluster I**

Relative:
Lower

Actual:
10 ft.

EDR Historical Auto Stations:

Name:	FASTWAY TOWING & COLLISION
Year:	2010
Address:	350 FRONT ST

E61 **DEMA'S AUTO CENTER INC.** **UST** **U004129094**
NNE **396 BAY STREET** **N/A**
1/8-1/4 **STATEN ISLAND, NY 10301**
0.133 mi.
702 ft. **Site 6 of 8 in cluster E**

Relative:
Lower

Actual:
15 ft.

UST:

Id/Status:	2-610997 / Active
Region:	STATE
DEC Region:	2
Program Type:	PBS
Expiration Date:	2013/05/01
UTM X:	578156.07999999996
UTM Y:	4498378.0969200004

Affiliation Records:

Site Id:	408522
Affiliation Type:	Owner
Company Name:	TALAT DEMA
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	396 BAY ST.
Address2:	Not reported
City:	STATEN ISLAND
State:	NY
Zip Code:	10301
Country Code:	001
Phone:	(646) 733-6439
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	8/6/2010

DEMA'S AUTO CENTER INC. (Continued) **U004129094**

Site Id: 408522
Affiliation Type: Mail Contact
Company Name: DEMAS AUTO CENTER INC.
Contact Type: Not reported
Contact Name: TALAT DEMA
Address1: 396 BAY STREET
Address2: Not reported
City: STATEN ISLAND
State: NY
Zip Code: 10301
Country Code: 001
Phone: (718) 816-9229
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 8/6/2010

Site Id: 408522
Affiliation Type: On-Site Operator
Company Name: DEMAS AUTO CENTER INC.
Contact Type: Not reported
Contact Name: TALAT DEMA
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 816-9229
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 8/6/2010

Site Id: 408522
Affiliation Type: Emergency Contact
Company Name: TALAT DEMA
Contact Type: Not reported
Contact Name: TALAT DEMA
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (646) 733-6439
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 8/6/2010

Tank Info:
Site ID: 408522

DEMA'S AUTO CENTER INC. (Continued) **U004129094**

Tank Number: 001
Tank ID: 226816
Tank Status: In Service
Tank Type: NOT DEFINED
Pipe Model: Not reported

Equipment Records:
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A01 - Tank Internal Protection - Epoxy Liner
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
D07 - Pipe Type - Plastic
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
L00 - Piping Leak Detection - None
I00 - Overfill - None

Install Date: 02/01/2009
Capacity Gallons: 250
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: Not reported
Tank Location: 5
Tank Type: NOT DEFINED
Date Test: Not reported
Registered: True
Modified By: NRLOMBAR
Last Modified: 08/06/2010

E62 **DEMAS AUTO COLLISION** **RCRA NonGen / NLR** **1004755615**
NNE **396 BAY ST** **FINDS** **NY0000119917**
1/8-1/4 **STATEN ISLAND, NY 10301** **MANIFEST**
0.133 mi.
702 ft. **Site 7 of 8 in cluster E**

Relative:
Lower

Actual:
15 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: DEMAS AUTO COLLISION
Facility address: 396 BAY ST
STATEN ISLAND, NY 10301
EPA ID: NY0000119917
Mailing address: BAY ST
STATEN ISLAND, NY 10301
Contact: TALAT DEMA
Contact address: BAY ST
STATEN ISLAND, NY 10301
Contact country: US
Contact telephone: (718) 816-9229
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: TALAT DEMA
Owner/operator address: 396 BAY ST

DEMAS AUTO COLLISION (Continued) **1004755615**

STATEN ISLAND, NY 10301
Owner/operator country: US
Owner/operator telephone: (718) 816-9228
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: TALAT DEMA
Owner/operator address: 396 BAY ST
STATEN ISLAND, NY 10301
Owner/operator country: US
Owner/operator telephone: (718) 816-9228
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
Facility name: DEMAS AUTO COLLISION
Classification: Not a generator, verified

Date form received by agency: 02/14/1994
Facility name: DEMAS AUTO COLLISION
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004312182

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.

DEMAS AUTO COLLISION (Continued) **1004755615**

NY MANIFEST:

EPA ID:	NY0000119917
Country:	USA
Mailing Name:	DEMA'S AUTO COLLISION
Mailing Contact:	TALAT/DASHNOR DEMA
Mailing Address:	396 BAY ST
Mailing Address 2:	Not reported
Mailing City:	STATEN ISLAND
Mailing State:	NY
Mailing Zip:	10301
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-816-9229

Document ID:	NJA3149449
Manifest Status:	Not reported
Trans1 State ID:	NJD986608941
Trans2 State ID:	Not reported
Generator Ship Date:	09/24/1998
Trans1 Recv Date:	09/24/1998
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/25/1998
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000119917
Trans1 EPA ID:	NJD002454544
Trans2 EPA ID:	Not reported
TSDF ID:	10339
Waste Code:	F005 - UNKNOWN
Quantity:	00080
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	98

Document ID:	NJA1886107
Manifest Status:	Completed copy
Trans1 State ID:	10339
Trans2 State ID:	Not reported
Generator Ship Date:	940321
Trans1 Recv Date:	940321
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	940324
Part A Recv Date:	Not reported
Part B Recv Date:	940406
Generator EPA ID:	NY0000119917
Trans1 EPA ID:	NJD986608941
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002454544
Waste Code:	F003 - UNKNOWN
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001

DEMAS AUTO COLLISION (Continued) **1004755615**

Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	94

Document ID:	NJA2763465
Manifest Status:	Completed copy
Trans1 State ID:	10339
Trans2 State ID:	Not reported
Generator Ship Date:	970422
Trans1 Recv Date:	970422
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	970424
Part A Recv Date:	Not reported
Part B Recv Date:	970506
Generator EPA ID:	NY0000119917
Trans1 EPA ID:	NJD986608941
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002454544
Waste Code:	F003 - UNKNOWN
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	97

E63 **EDR US Hist Auto Stat** **1015465882**
NNE **396 BAY ST** **N/A**
1/8-1/4 **STATEN ISLAND, NY 10301**
0.133 mi.
702 ft. **Site 8 of 8 in cluster E**

Relative:
Lower

Actual:
15 ft.

EDR Historical Auto Stations:

Name:	DEMAS AUTO COLLISION
Year:	1999
Address:	396 BAY ST
Name:	DEMAS AUTO COLLISION
Year:	2000
Address:	396 BAY ST
Name:	DEMAS AUTO COLLISION
Year:	2001
Address:	396 BAY ST
Name:	DEMAS AUTO COLLISION
Year:	2002
Address:	396 BAY ST
Name:	DEMAS AUTO COLLISION
Year:	2003
Address:	396 BAY ST
Name:	DEMAS AUTO CTR INC
Year:	2004

(Continued) **1015465882**

Address: 396 BAY ST

Name: DEMAS AUTO CENTER INC
Year: 2007
Address: 396 BAY ST

Name: DEMAS AUTO CENTER INC
Year: 2009
Address: 396 BAY ST

Name: DEMAS AUTO CENTER INC
Year: 2012
Address: 396 BAY ST

J64 **RITE AID #10535** **RCRA-CESQG** **1014927233**
NNE **385 BAY ST** **NYR000190249**
1/8-1/4 **STATEN ISLAND, NY 10301**
0.148 mi.
780 ft. **Site 1 of 7 in cluster J**

Relative:
Lower

Actual:
14 ft.

RCRA-CESQG:
Date form received by agency: 11/04/2011
Facility name: RITE AID #10535
Facility address: 385 BAY ST
STATEN ISLAND, NY 10301
EPA ID: NYR000190249
Mailing address: HUNTER LANE
CAMP HILL, PA 17011
Contact: STEPHANIE A CAIATI
Contact address: HUNTER LANE
CAMP HILL, PA 17011
Contact country: US
Contact telephone: (717) 730-8225
Contact email: SSCAIATI@RITEAID.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: RITE AID CORP
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported

RITE AID #10535 (Continued) **1014927233**

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 02/21/2008
Owner/Op end date: Not reported

Owner/operator name: RITE AID CORP
Owner/operator address: HUNTER LANE
CAMP HILL, PA 17011
Owner/operator country: US
Owner/operator telephone: (717) 761-2633
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 02/21/2008
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

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D007
Waste name: CHROMIUM

Waste code: D009
Waste name: MERCURY

RITE AID #10535 (Continued) **1014927233**

Waste code: D010
Waste name: SELENIUM

Waste code: D024
Waste name: M-CRESOL

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%

Waste code: P075
Waste name: NICOTINE, & SALTS

Violation Status: No violations found

J65 **RITE AID #10535** **MANIFEST** **S112211355**
NNE **385 BAY ST** **N/A**
1/8-1/4 **STATEN ISLAND, NY 10301**
0.148 mi.
780 ft. **Site 2 of 7 in cluster J**

Relative:
Lower

Actual:
14 ft.

NY MANIFEST:
EPA ID: NYR000190249
Country: USA
Mailing Name: RITE AID #10535
Mailing Contact: RITE AID #10535
Mailing Address: 385 BAY ST
Mailing Address 2: Not reported
Mailing City: STATEN ISLAND
Mailing State: NY
Mailing Zip: 10301
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: Not reported

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: CTD983872698
Trans2 State ID: NJD054126164
Generator Ship Date: 2012-07-16
Trans1 Recv Date: 2012-07-16
Trans2 Recv Date: 2012-07-27
TSD Site Recv Date: 2012-08-02
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000190249
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: OHD083377010
Waste Code: Not reported
Quantity: 16.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: CF - Fiber or plastic boxes, cartons
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 1.0
Year: 2012
Manifest Tracking Num: 005528009FLE

RITE AID #10535 (Continued) **S112211355**

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:	H071

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	CTD983872698
Trans2 State ID:	NJD054126164
Generator Ship Date:	2012-07-16
Trans1 Recv Date:	2012-07-16
Trans2 Recv Date:	2012-07-27
TSD Site Recv Date:	2012-08-02
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000190249
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD083377010
Waste Code:	Not reported
Quantity:	9.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	005528009FLE
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:	H050

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	CTD983872698
Trans2 State ID:	NJD054126164
Generator Ship Date:	2012-07-16
Trans1 Recv Date:	2012-07-16
Trans2 Recv Date:	2012-07-27
TSD Site Recv Date:	2012-08-02

RITE AID #10535 (Continued) **S112211355**

Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000190249
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD083377010
Waste Code:	Not reported
Quantity:	1.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	005528009FLE
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:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	CTD983872698
Trans2 State ID:	NJD054126164
Generator Ship Date:	2012-07-16
Trans1 Recv Date:	2012-07-16
Trans2 Recv Date:	2012-07-27
TSD Site Recv Date:	2012-08-02
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000190249
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD083377010
Waste Code:	Not reported
Quantity:	56.0
Units:	P - Pounds
Number of Containers:	3.0
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	005528009FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N

RITE AID #10535 (Continued) **S112211355**

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:	H121

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	CTD983872698
Trans2 State ID:	NJD054126164
Generator Ship Date:	2012-07-16
Trans1 Recv Date:	2012-07-16
Trans2 Recv Date:	2012-07-27
TSD Site Recv Date:	2012-08-02
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000190249
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD083377010
Waste Code:	Not reported
Quantity:	1.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	005528009FLE
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:	NJD054126164
Generator Ship Date:	2012-07-16
Trans1 Recv Date:	2012-07-16
Trans2 Recv Date:	2012-07-27
TSD Site Recv Date:	2012-08-02
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000190249
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD083377010

RITE AID #10535 (Continued) **S112211355**

Waste Code:	Not reported
Quantity:	1.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	005528009FLE
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:	NJD054126164
Generator Ship Date:	2012-10-25
Trans1 Recv Date:	2012-10-25
Trans2 Recv Date:	2012-10-26
TSD Site Recv Date:	2012-11-07
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000190249
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	INR000110197
Waste Code:	Not reported
Quantity:	8.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	005065446FLE
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

RITE AID #10535 (Continued) **S112211355**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	CTD983872698
Trans2 State ID:	NJD054126164
Generator Ship Date:	2012-11-27
Trans1 Recv Date:	2012-11-27
Trans2 Recv Date:	2012-12-06
TSD Site Recv Date:	2012-12-12
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000190249
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	INR000110197
Waste Code:	Not reported
Quantity:	1.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	005533632FLE
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:	NJD054126164
Generator Ship Date:	2012-07-16
Trans1 Recv Date:	2012-07-16
Trans2 Recv Date:	2012-07-27
TSD Site Recv Date:	2012-08-02
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000190249
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD083377010
Waste Code:	Not reported
Quantity:	16.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0

RITE AID #10535 (Continued) **S112211355**

Year:	2012
Manifest Tracking Num:	005528009FLE
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:	H071

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	CTD983872698
Trans2 State ID:	NJD054126164
Generator Ship Date:	2012-07-16
Trans1 Recv Date:	2012-07-16
Trans2 Recv Date:	2012-07-27
TSD Site Recv Date:	2012-08-02
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000190249
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD083377010
Waste Code:	Not reported
Quantity:	9.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	005528009FLE
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:	H050

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	CTD983872698
Trans2 State ID:	NJD054126164
Generator Ship Date:	2012-07-16
Trans1 Recv Date:	2012-07-16

RITE AID #10535 (Continued) **S112211355**

Trans2 Recv Date:	2012-07-27
TSD Site Recv Date:	2012-08-02
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000190249
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD083377010
Waste Code:	Not reported
Quantity:	1.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	005528009FLE
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:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	CTD983872698
Trans2 State ID:	NJD054126164
Generator Ship Date:	2012-07-16
Trans1 Recv Date:	2012-07-16
Trans2 Recv Date:	2012-07-27
TSD Site Recv Date:	2012-08-02
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000190249
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD083377010
Waste Code:	Not reported
Quantity:	56.0
Units:	P - Pounds
Number of Containers:	3.0
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	005528009FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N

RITE AID #10535 (Continued) **S112211355**

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:	H121

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	CTD983872698
Trans2 State ID:	NJD054126164
Generator Ship Date:	2012-07-16
Trans1 Recv Date:	2012-07-16
Trans2 Recv Date:	2012-07-27
TSD Site Recv Date:	2012-08-02
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000190249
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD083377010
Waste Code:	Not reported
Quantity:	1.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	005528009FLE
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:	NJD054126164
Generator Ship Date:	2012-07-16
Trans1 Recv Date:	2012-07-16
Trans2 Recv Date:	2012-07-27
TSD Site Recv Date:	2012-08-02
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000190249
Trans1 EPA ID:	Not reported

RITE AID #10535 (Continued) **S112211355**

Trans2 EPA ID:	Not reported
TSDF ID:	OHD083377010
Waste Code:	Not reported
Quantity:	1.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	005528009FLE
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

J66 **EDR US Hist Cleaners** **1015052354**
NNE **385 BAY ST** **N/A**
1/8-1/4 **STATEN ISLAND, NY 10301**
0.148 mi.
780 ft. **Site 3 of 7 in cluster J**

Relative:
Lower

Actual:
14 ft.

EDR Historical Cleaners:

Name:	A 1 LAUNDROMATINC
Year:	2002
Address:	385 BAY ST
Name:	A 1 LAUNDRY INC
Year:	2003
Address:	385 BAY ST
Name:	A 1 LAUNDRY
Year:	2004
Address:	385 BAY ST
Name:	A1 LAUNDROMAT INC
Year:	2008
Address:	385 BAY ST
Name:	A1 LAUNDROMAT INC
Year:	2009
Address:	385 BAY ST

K67 **EDR US Hist Auto Stat** **1015116594**
SSE **10 CROSS ST** **N/A**
1/8-1/4 **STATEN ISLAND, NY 10304**
0.148 mi.
780 ft. **Site 1 of 3 in cluster K**

Relative:
Lower

Actual:
10 ft.

EDR Historical Auto Stations:

Name:	MAF AUTO REPAIR
Year:	2001
Address:	10 CROSS ST
Name:	AUTOMOBILE FILM CLUB OF AMRC INC
Year:	2002
Address:	10 CROSS ST
Name:	MAF AUTO REPAIR
Year:	2003
Address:	10 CROSS ST
Name:	AUTOMOBILE FILM CLUB OF AMERICA INC
Year:	2005
Address:	10 CROSS ST
Name:	AUTOMOBILE FILM CLUB OF AMERICA INC
Year:	2007
Address:	10 CROSS ST
Name:	AUTOMOBILE FILM CLUB OF AMERICA INC
Year:	2008
Address:	10 CROSS ST
Name:	AUTOMOBILE FILM CLUBAMERICA
Year:	2010
Address:	10 CROSS ST
Name:	AUTOMOBILE FILM CLUB OF AMERICA INC
Year:	2011
Address:	10 CROSS ST
Name:	AUTOMOBILE FILM CLUB OF AMERICA INC
Year:	2012
Address:	10 CROSS ST

K68 **BELL ATLANTIC NY** **RCRA NonGen / NLR** **1007205674**
South **UNION PL & BAY ST** **NYP000938068**
1/8-1/4 **STATEN ISLAND, NY 10304**
0.152 mi.
800 ft. **Site 2 of 3 in cluster K**

Relative:
Lower

Actual:
14 ft.

RCRA NonGen / NLR:

Date form received by agency:	03/01/1998
Facility name:	BELL ATLANTIC NY
Facility address:	UNION PL & BAY ST STATEN ISLAND, NY 10304
EPA ID:	NYP000938068
Mailing address:	BELL ATLANTIC-ENV AFFAIRS 221 E 37TH ST 4TH FLR NEW YORK, NY 100160000
Contact:	JOHN QUATRALE
Contact address:	BELL ATLANTIC-ENV AFFAIRS

BELL ATLANTIC NY (Continued) **1007205674**

NEW YORK, NY 100160000
Contact country: US
Contact telephone: (212) 338-7141
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: 02/28/1998
Facility name: BELL ATLANTIC NY
Site name: BELL ATLANTIC-NY
Classification: Not a generator, verified

Date form received by agency: 02/27/1998
Facility name: BELL ATLANTIC NY
Site name: BELL ATLANTIC-NY
Classification: Large Quantity Generator

Violation Status: No violations found

J69 **EDR US Hist Auto Stat** **1015458101**
NNE **380 BAY ST** **N/A**
1/8-1/4 **STATEN ISLAND, NY 10301**
0.160 mi.
847 ft. **Site 4 of 7 in cluster J**

Relative:
Lower

Actual:
15 ft.

EDR Historical Auto Stations:
Name: PEDROS AUTO CENTER
Year: 1999
Address: 380 BAY ST

Name: PEDROS AUTO CENTER
Year: 2000
Address: 380 BAY ST

Name: PAULIES AUTOMOTIVE SERVICE
Year: 2002
Address: 380 BAY ST

Name: PAULIES AUTOMOTIVE SERVICE

(Continued) **1015458101**

Year: 2003
Address: 380 BAY ST

Name: LORIAS AUTO REPAIR
Year: 2004
Address: 380 BAY ST

Name: T & S AUTO INC
Year: 2009
Address: 380 BAY ST

Name: T & S AUTO SVC
Year: 2010
Address: 380 BAY ST

Name: SANDYS HALF PRICE MUFFLER
Year: 2011
Address: 380 BAY ST

Name: T S AUTOMOBILE SERVICE
Year: 2012
Address: 380 BAY ST

J70 **T&S AUTO INC.** **AST** **A100318976**
NNE **380A BAY STREET** **N/A**
1/8-1/4 **STATEN ISLAND, NY 10301**
0.160 mi.
847 ft. **Site 5 of 7 in cluster J**

Relative:
Lower

Actual:
15 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-610795
Program Type: PBS
UTM X: 578172.50800999999
UTM Y: 4498418.7236700002
Expiration Date: 2013/03/20

Affiliation Records:
Site Id: 395215
Affiliation Type: Owner
Company Name: DHANASIRI RAJAPAKSE
Contact Type: Not reported
Contact Name: Not reported
Address1: 20 RUPERT AVE, FL-2
Address2: Not reported
City: STATEN ISLAND
State: NY
Zip Code: 10314
Country Code: 001
Phone: (347) 410-2046
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 3/20/2008

T&S AUTO INC. (Continued) **A100318976**

Site Id:	395215
Affiliation Type:	Mail Contact
Company Name:	T&S AUTO INC
Contact Type:	Not reported
Contact Name:	DHANASIRI RAJAPAKSE
Address1:	380-A BAY STREET
Address2:	Not reported
City:	STATEN ISLAND
State:	NY
Zip Code:	10301
Country Code:	001
Phone:	(718) 273-3535
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/20/2008

Site Id:	395215
Affiliation Type:	On-Site Operator
Company Name:	T&S AUTO INC.
Contact Type:	Not reported
Contact Name:	DHANASIRI/GAMINI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 273-3535
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/20/2008

Site Id:	395215
Affiliation Type:	Emergency Contact
Company Name:	DHANASIRI RAJAPAKSE
Contact Type:	Not reported
Contact Name:	DHANASIRI/GAMINI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(347) 410-2046
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/20/2008

Tank Info:

Tank Number:	001

T&S AUTO INC. (Continued) **A100318976**

Tank Id: 222103

Equipment Records:

A00 - Tank Internal Protection - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	200
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:	03/20/2008

I71 **355 FRONT ST/USN NAVAL ST** **LTANKS** **S106703621**
SE **355 FRONT ST/BOAT LDG LOT** **HIST LTANKS** **N/A**
1/8-1/4 **STATEN ISLAND, NY**
0.161 mi.
850 ft. **Site 3 of 4 in cluster I**

Relative:
Lower

Actual:
7 ft.

LTANKS:

Site ID:	66483
Spill Number/Closed Date:	9202281 / 5/26/1992
Spill Date:	5/22/1992
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:	5/26/1992
Cleanup Meets Standard:	True
SWIS:	4301
Investigator:	KSTANG
Referred To:	Not reported
Reported to Dept:	5/22/1992
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:	5/28/1992
Spill Record Last Update:	8/1/2003
Spiller Name:	Not reported
Spiller Company:	BAYSIDE FUEL OIL 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:	63645
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was

355 FRONT ST/USN NAVAL ST (Continued) **S106703621**

"TANG"
Remarks: SORBENT APPLIED PICKED UP & DISPOSED.

Material:
Site ID: 66483
Operable Unit ID: 966379
Operable Unit: 01
Material ID: 413538
Material Code: 0008
Material Name: Diesel
Case No.: Not reported
Material FA: Petroleum
Quantity: 5
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

HIST LTANKS:
Region of Spill: 2
Spill Number/Closed Date: 9202281 / 05/26/92
Spill Date: 05/22/1992
Spill Time: 17:00
Spill Cause: Tank Overfill
Resource Affectd: On Land
Water Affected: Not reported
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: 05/26/92
Cleanup Meets Standard: True
Investigator: TANG
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 05/22/92
Reported to Department Time: 14:17
SWIS: 64
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: BAYSIDE FUEL OIL CO
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: Not reported
Facility Extention: Not reported

355 FRONT ST/USN NAVAL ST (Continued) **S106703621**

Spill Notifier: Affected Persons
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 05/28/92
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: / /
Is Updated: False

Tank:

Material:
Material Class Type: Petroleum
Quantity Spilled: 5
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Spill Cause: SORBENT APPLIED PICKED UP DISPOSED.

I72 **355 FRONT ST/NAVAL STA** **LTANKS** **S106703618**
SE **355 FRONT ST/NAVAL STA** **HIST LTANKS** **N/A**
1/8-1/4 **STATEN ISLAND, NY**
0.161 mi.
850 ft. **Site 4 of 4 in cluster I**

Relative:
Lower

Actual:
7 ft.

LTANKS:
Site ID: 310081
Spill Number/Closed Date: 9201954 / 5/19/1992
Spill Date: 5/15/1992
Spill Cause: Tank Overfill
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: 5/19/1992
Cleanup Meets Standard: True
SWIS: 4301
Investigator: KSTANG
Referred To: Not reported
Reported to Dept: 5/18/1992
CID: Not reported
Water Affected: NARROWS
Spill Notifier: Affected Persons
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False

355 FRONT ST/NAVAL STA (Continued) **S106703618**

Remediation Phase:	0
Date Entered In Computer:	5/20/1992
Spill Record Last Update:	8/1/2003
Spiller Name:	Not reported
Spiller Company:	DEP'T OF DEFENSE-POLICE
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:	250308
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TANG"
Remarks:	USED SKIMMER TO RECOVER PRODUCT.

Material:

Site ID:	310081
Operable Unit ID:	969324
Operable Unit:	01
Material ID:	413238
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:

HIST LTANKS:

Region of Spill:	2
Spill Number/Closed Date:	9201954 / 05/19/92
Spill Date:	05/15/1992
Spill Time:	12:30
Spill Cause:	Tank Overfill
Resource Affectd:	Surface Water
Water Affected:	NARROWS
Spill Source:	Other Non 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:	05/19/92
Cleanup Meets Standard:	True
Investigator:	TANG
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported

355 FRONT ST/NAVAL STA (Continued) **S106703618**

Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 05/18/92
Reported to Department Time: 10:26
SWIS: 64
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: DEP'T OF DEFENSE-POLICE
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: Not reported
Facility Extention: Not reported
Spill Notifier: Affected Persons
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 05/20/92
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: / /
Is Updated: False

Tank:

Material:
Material Class Type: Petroleum
Quantity Spilled: 5
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Spill Cause: USED SKIMMER TO RECOVER PRODUCT.

L73 **EDR US Hist Auto Stat** **1015636958**
SW **80 BEACH ST** **N/A**
1/8-1/4 **STATEN ISLAND, NY 10304**
0.162 mi.
853 ft. **Site 1 of 3 in cluster L**

Relative:
Higher

Actual:
37 ft.

EDR Historical Auto Stations:
Name: WATSON AUTO BODY SHOP
Year: 1999
Address: 80 BEACH ST

Name: WATSON AUTO BODY SHOP

(Continued) **1015636958**

Year: 2000
Address: 80 BEACH ST

Name: WATSON AUTO BODY SHOP
Year: 2001
Address: 80 BEACH ST

L74 **EDR US Hist Auto Stat** **1015556482**
SSW **57 BEACH ST** **N/A**
1/8-1/4 **STATEN ISLAND, NY 10304**
0.164 mi.
867 ft. **Site 2 of 3 in cluster L**

Relative:
Higher

Actual:
28 ft.

EDR Historical Auto Stations:
Name: RJS AUTO REPAIR SHOP INC
Year: 2009
Address: 57 BEACH ST

L75 **EDR US Hist Cleaners** **1015108624**
SW **96 BEACH ST** **N/A**
1/8-1/4 **STATEN ISLAND, NY 10304**
0.165 mi.
871 ft. **Site 3 of 3 in cluster L**

Relative:
Higher

Actual:
45 ft.

EDR Historical Cleaners:
Name: LUJAPS STATEN IS CLEANING SVC
Year: 2010
Address: 96 BEACH ST

J76 **EDR US Hist Auto Stat** **1015636450**
NNE **8 GRANT ST** **N/A**
1/8-1/4 **STATEN ISLAND, NY 10301**
0.180 mi.
948 ft. **Site 6 of 7 in cluster J**

Relative:
Lower

Actual:
15 ft.

EDR Historical Auto Stations:
Name: K & J AUTO COLLISION & PAINTING
Year: 1999
Address: 8 GRANT ST

Name: K & J AUTO COLLISION & PAINTING
Year: 2000
Address: 8 GRANT ST

Name: K & J AUTO COLLISION & PNTNG
Year: 2003
Address: 8 GRANT ST

Name: K & J AUTO COLLISION & PNTNG
Year: 2004
Address: 8 GRANT ST

Name: K & J AUTO COLLISION & PAINTING
Year: 2007
Address: 8 GRANT ST

(Continued) **1015636450**

Name: K & J AUTO COLLISION & PAINTING
Year: 2008
Address: 8 GRANT ST

Name: K & J AUTO COLLISION & PAINTING
Year: 2009
Address: 8 GRANT ST

Name: K & J AUTO COLLISION & PNTNG
Year: 2010
Address: 8 GRANT ST

Name: K & J AUTO COLLISION & PAINTING
Year: 2011
Address: 8 GRANT ST

Name: K & J AUTO COLLISION & PAINTING
Year: 2012
Address: 8 GRANT ST

K77 **EDR US Hist Cleaners** **1015078104**
South **592 BAY ST** **N/A**
1/8-1/4 **STATEN ISLAND, NY 10304**
0.180 mi.
951 ft. **Site 3 of 3 in cluster K**

Relative:
Lower

Actual:
9 ft.

EDR Historical Cleaners:
Name: BAY STREET SEWERS & DRAIN CLEANERS
Year: 2011
Address: 592 BAY ST

J78 **EDR US Hist Auto Stat** **1015177396**
NNE **12 GRANT ST** **N/A**
1/8-1/4 **STATEN ISLAND, NY 10301**
0.180 mi.
952 ft. **Site 7 of 7 in cluster J**

Relative:
Lower

Actual:
15 ft.

EDR Historical Auto Stations:
Name: WILLIE AUTO REPAIR
Year: 2001
Address: 12 GRANT ST

Name: WILLIE AUTO REPAIR
Year: 2002
Address: 12 GRANT ST

Name: WILLIE AUTO REPAIR
Year: 2003
Address: 12 GRANT ST

Name: WILLIE AUTO REPAIR
Year: 2004
Address: 12 GRANT ST

Name: WILLIE AUTO REPAIR
Year: 2007

(Continued) **1015177396**

Address: 12 GRANT ST

Name: WILLIE AUTO REPAIR
Year: 2008
Address: 12 GRANT ST

Name: WILLIE AUTO REPAIR
Year: 2010
Address: 12 GRANT ST

Name: WILLIE AUTO REPAIR
Year: 2011
Address: 12 GRANT ST

Name: WILLIE AUTO REPAIR
Year: 2012
Address: 12 GRANT ST

M79 **S I BANK & TRUST** **AST S107784016**
South **15 BEACH STREET** **HIST AST N/A**
1/8-1/4 **STATEN ISLAND, NY 10304**
0.184 mi.
971 ft. **Site 1 of 2 in cluster M**

Relative:
Lower

Actual:
12 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Unregulated
Facility Id: 2-605149
Program Type: PBS
UTM X: 578052.99939999997
UTM Y: 4497785.4241500003
Expiration Date: N/A

Affiliation Records:
Site Id: 27018
Affiliation Type: Owner
Company Name: S I BANK & TRUST
Contact Type: Not reported
Contact Name: Not reported
Address1: 15 BEACH STREET
Address2: Not reported
City: STATEN ISLAND
State: NY
Zip Code: 10304
Country Code: 001
Phone: (718) 447-7900
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 27018
Affiliation Type: Mail Contact
Company Name: S I BANK & TRUST
Contact Type: Not reported
Contact Name: Not reported

S I BANK & TRUST (Continued) **S107784016**

Address1:	15 BEACH STREET
Address2:	Not reported
City:	STATEN ISLAND
State:	NY
Zip Code:	10304
Country Code:	001
Phone:	(718) 447-7900
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	27018
Affiliation Type:	On-Site Operator
Company Name:	S I BANK & TRUST
Contact Type:	Not reported
Contact Name:	MICHAEL J. BRENNAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 447-7900
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	27018
Affiliation Type:	Emergency Contact
Company Name:	S I BANK & TRUST
Contact Type:	Not reported
Contact Name:	MICHAEL J. BRENNAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 447-7900
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank Id:	59492

Equipment Records:

H00 - Tank Leak Detection - None
C01 - Pipe Location - Aboveground

S I BANK & TRUST (Continued) **S107784016**

I00 - Overfill - None
D00 - Pipe Type - No Piping
B00 - Tank External Protection - None
J02 - Dispenser - Suction
G01 - Tank Secondary Containment - Diking (Aboveground)
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	3500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/01/1999
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004

HIST AST:

PBS Number:	2-605149
SWIS Code:	6401
Operator:	MICHAEL J. BRENNAN
Facility Phone:	(718) 447-7900
Facility Addr2:	Not reported
Facility Type:	OTHER
Emergency:	MICHAEL J. BRENNAN
Emergency Tel:	(718) 727-8863
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	S I BANK & TRUST
Owner Address:	15 BEACH STREET
Owner City,St,Zip:	STATEN ISLAND, NY 10304
Federal ID:	Not reported
Owner Tel:	(718) 447-7900
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Contact:	Not reported
Mailing Name:	S I BANK & TRUST
Mailing Address:	15 BEACH STREET
Mailing Address 2:	Not reported
Mailing City,St,Zip:	STATEN ISLAND, NY 10304
Mailing Telephone:	(718) 447-7900
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Certification Flag:	False
Certification Date:	Not reported
Expiration:	02/06/2006
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	0
FAMT:	True

S I BANK & TRUST (Continued) **S107784016**

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:	64
Town or City Code:	01
Region:	2
Tank ID:	001
Tank Location:	ABOVEGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (Gal):	3500
Product Stored:	EMPTY
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	0
Pipe Location:	Aboveground
Pipe Type:	NONE
Pipe Internal:	None
Pipe External:	0
Tank Containment:	8
Leak Detection:	0
Overfill Protection:	0
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	03/01/1999
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

M80 **103 WATER STREET** **AST** **A100166614**
South **103 WATER ST** **N/A**
1/8-1/4 **STATEN ISLAND, NY 10304**
0.200 mi.
1058 ft. **Site 2 of 2 in cluster M**

Relative:
Lower

Actual:
9 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-601444
Program Type:	PBS
UTM X:	578036.51318000001
UTM Y:	4497743.2024900001
Expiration Date:	2015/05/25

Affiliation Records:

Site Id:	23409
Affiliation Type:	Owner
Company Name:	TAPPEN PARK ASSOCIATES INC.
Contact Type:	PRESIDENT

103 WATER STREET (Continued) **A100166614**

Contact Name:	MICHAEL BEHAR
Address1:	P.O. BOX 090116
Address2:	Not reported
City:	STATEN ISLAND
State:	NY
Zip Code:	10309
Country Code:	001
Phone:	(718) 556-5725
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	3/9/2005

Site Id:	23409
Affiliation Type:	Mail Contact
Company Name:	TAPPAN PARK ASSOCIATES INC.
Contact Type:	Not reported
Contact Name:	MICHAEL BEHAR
Address1:	P.O. BOX 090116
Address2:	Not reported
City:	STATEN ISLAND
State:	NY
Zip Code:	10309
Country Code:	001
Phone:	(718) 556-5725
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	23409
Affiliation Type:	On-Site Operator
Company Name:	103 WATER STREET
Contact Type:	Not reported
Contact Name:	MICHAEL BEHAR
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 556-5725
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	23409
Affiliation Type:	Emergency Contact
Company Name:	TAPPEN PARK ASSOCIATES INC.
Contact Type:	Not reported
Contact Name:	MICHAEL BEHAR
Address1:	Not reported
Address2:	Not reported

103 WATER STREET (Continued) **A100166614**

City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 556-5725
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank Id:	46033

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
K01 - Spill Prevention - Catch Basin
I05 - Overfill - Vent Whistle
J00 - Dispenser - None
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
E02 - Piping Secondary Containment - Vault (with Access)
L02 - Piping Leak Detection - Interstitial - Manual Monitoring
G03 - Tank Secondary Containment - Vault (w/o access)

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	11/15/1959
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:	03/25/2010

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81 **EDR US Hist Auto Stat** **1015233526**
WSW **148 BEACH ST** **N/A**
1/8-1/4 **STATEN ISLAND, NY 10304**
0.213 mi.
1127 ft.

Relative:
Higher

Actual:
62 ft.

EDR Historical Auto Stations:

Name:	STATEN ISLAND AUTO BODY
Year:	1999
Address:	148 BEACH ST
Name:	STATEN ISLAND AUTO BODY
Year:	2000
Address:	148 BEACH ST

(Continued) **1015233526**

Name: STATEN ISLAND AUTO BODY
Year: 2001
Address: 148 BEACH ST

Name: STATEN ISLAND AUTO BODY
Year: 2002
Address: 148 BEACH ST

Name: STATEN ISLAND AUTO BODY
Year: 2003
Address: 148 BEACH ST

N82 **PARCEL P15 - FRONT STREET** **DEL SHWS** **S105973028**
SSE **N/A**
1/8-1/4 **STATEN ISLAND, NY 10304**
0.220 mi.
1159 ft. **Site 1 of 3 in cluster N**

Relative:
Lower

Actual:
8 ft.

DEL SHWS:

Year:	#257-1998
Site Code Id:	243021
Site Classification:	Not reported
Region:	Not reported
Epa Id Number:	Not reported
Site Type - Dump:	No
Site Type - Structure:	No
Site Type - Lagoon:	No
Site Type - Landfill:	No
Site Type - Treat Pond:	No
Site Size (Acres):	Not reported
Site Size Comment:	Not reported
Period Assoc/HW Start:	Not reported
Period Assoc/HW End:	Not reported
Lat/Long:	Not reported
Lat/Long Decimal:	Not reported
Lat/Long (dms):	0 0 0.0 / 0 0 0.0
Hazardous Waste Code:	Not reported
Hazard Waste Disposed:	Not reported
Quantity:	Not reported
Air Data Available:	No
SW Std Contravention:	No
GW Std Contravention:	No
Soil Type:	Not reported
Sediment Data Available:	No
GW Std Contravention:	No
DW Std Contravention:	No
SW Std Contravention:	No
Air Stand Contraventions:	No
Legal Action Type:	Not reported
State Legal Action:	No
Federal Legal Action:	No
Enforce Status Code:	Not reported
Remedial Act Proposed:	No
Rem Act Under Design:	No
Rem Act In Progress:	No
Rem Act Completed:	No
Remedial Action Type:	Not reported
Soil Type:	Not reported

PARCEL P15 - FRONT STREET (Continued) **S105973028**

Depth To Groundwater:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Owner Phone:	Not reported
Owner Contact Name:	Not reported
Owner During Disposal:	Not reported
Owner During Use:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City,St,Zip:	Not reported
Operator Phone:	Not reported
Operator Contact Name:	Not reported
Oper During Disposal:	Not reported
Site Type:	Not reported
HW Disposal Period:	Not reported
Analytical Data Available:	Not reported
Applicable Std Exceeded:	Not reported
Geotech Info:	Not reported
Depth To Groundwater:	Not reported
Status:	Not reported
Nature Of Action:	Not reported
Env Prob Assessment:	Not reported
Site Description:	Not reported
Confirmed HW:	Not reported
Environment Assesment:	Not reported
Health Assesment:	Not reported
Disposal Start Date:	Not reported
Disposal Term Date:	Not reported
Air Violation:	Not reported
Groundwater Violation:	Not reported
Drink Water Violation:	Not reported
Surface Water Violation:	Not reported
Legal New York State:	Not reported
Legal Federal:	Not reported
Legal State:	Not reported
Remedial Action Active:	Not reported
Remedial Action Done:	Not reported
NPL Status:	Not reported
Count Operator:	Not reported
Count Owner:	Not reported
NYTM X:	Not reported
NYTM Y:	Not reported
Co Name:	Not reported
Co Addr:	Not reported
Operator Addr:	Not reported
Operator Addr 2:	Not reported
Operator Addr 3:	Not reported
Operator Addr 4:	Not reported
HWDP From:	Not reported
From To:	Not reported
Assessment of Health:	Not reported
Description:	Not reported
Env Assessment:	Not reported
HW Disposed/Quantity:	LEAD (D008), UNKNOWN
Assess/Env Prog:	PAST SITE OPERATIONS HAVE CONTAMINATED SOIL AND GROUNDWATER WITH HIGH LEVELS O LEAD. THE EXTENT OF GROUNDWATER CONTAMINATION IS UNKNOWN, BUT DRINKING WATER IS

PARCEL P15 - FRONT STREET (Continued) **S105973028**

SUPPLIED BY UPSTATE RESERVOIRS, AND NO OTHER USES HAVE BEEN DOCUMENTED.

Assess/Health Prob: SOIL AND GROUNDWATER ARE CONTAMINATED WITH LEAD ABOVE APPLICABLE STANDARDS. EXPOSURE TO CONTAMINATED GROUNDWATER IS NOT EXPECTED SINCE PUBLIC WATER SERV THE AREA AND THE GROUNDWATER FLOWS TOWARD THE ATLANTIC OCEAN. EXPOSURE TO CONTAMINATED SOIL ISPOSSIBLE AS THERE IS EVIDENCE OF TRESPASSING.

Site Description: THE SITE IS SITUATED APPROXIMATELY 0.1 MILE WEST OF THE STAPLETON HOMEPORT (FORMER LOCATION OF THE NAVY NE SURFACE ACTION GROUP) AND IS LOCATED IN THE STAPLETON SECTION OF STATEN ISLAND, NEW YORK CITY. THE NAVY PURCHASED THE PROPERTIES ALONG FRONT STREET DURING THE 1980S IN ANTICIPATION OF MAKING THE AREA A PARKING LOT FOR HOMEPORT EMPLOYEES. SINCE THE HOMEPORT WAS DECOMMISSIONED PRIOR TO CONSTRUCTION OF THE LOTS, THE AREA WAS LEFT AS IS WITH VARIOUS BUILDINGS AND STRUCTURES REMAINING. IN AN EFFORT TO TRANSFER THE PROPERTIES, THE NAVY HAS INVESTIGATED ALL OF THE VACANT LOTS TO DETERMINE WHAT AREAS NEED FURTHER WORK (I.E. ADDITIONAL SAMPLING, CLEANUP, ETC.). PARCEL P15 WAS FORMERLY USED AS AN AUTO REPAIR SHOP AND HAS A VACANT TWO-STORY BUILDING O SITE. BEHIND THE BUILDING THERE IS A SMALL OPEN AREA. HEAVY STAINING WAS OBSERVED ON THE FIRST FLOOR OF THE BUILDING AS WELL AS ON THE GROUND SURFACE TO THE REAR. SUBSEQUENT SAMPLING REVEALED CONTAMINATION OF SOILS, GROUNDWATER AN BUILDING SURFACES WITH LEAD. A REMOVAL ACTION WAS UNDERTAKEN IN THE SPRING/SUMMER OF 1996 CONSISTING OF SOIL REMOVAL, SUMP REMOVAL, POWERWASHING BUILDING WALLS AND GENERAL DEBRIS REMOVAL. THE CLOSEOUT REPORT IS EXPECTED THIS SPRING

N83 **PARCEL P15 - FRONT STREET** **SHWS** **S106905136**
SSE **44 CANAL STREET** **N/A**
1/8-1/4 **STATEN ISLAND, NY 10304**
0.220 mi.
1164 ft. **Site 2 of 3 in cluster N**

Relative:
Lower

Actual:
8 ft.

SHWS:
Program: HW
Site Code: 55937
Classification: COMPLETED
Region: 2
Acres: .050
HW Code: 243021
Record Add: 11/18/1999
Record Upd: 01/11/2008
Updated By: JAAVERSA
Site Description: The site is situated approximately 0.1 mile west of the Stapleton Homeport (former location of the Navy NE Surface Action Group) and is located in the Stapleton Section of Staten Island, New York City. The Navy purchased the properties along Front Street during the 1980s in anticipation of making the area a parking lot for Homeport employees. Since the Homeport was decommissioned prior to construction of the lots, the area was left with various buildings and structures remaining. In an effort to transfer the properties, the Navy has investigated all of the vacant lots to determine what areas need further work (i.e. additional sampling, cleanup, etc.). Parcel P15 was formerly used as an auto repair shop and has a vacant two-story building on site. Behind the building there is a small open area. Heavy staining was observed on the first floor of the building as well as on the ground surface to the rear. Subsequent sampling revealed contamination of soils, groundwater and building surfaces with lead. A Removal Action was undertaken in the Spring/Summer of 1996 consisting of soil removal, sump removal, powerwashing building walls and general debris removal. Confirmatory samples show that the levels of lead remaining on-site (which are beneath 1 - 6’ of clean

PARCEL P15 - FRONT STREET (Continued) **S106905136**

	fill) are non-hazardous. Further excavation to remove the remaining soils with elevated lead levels was not possible due to the partial collapse of an adjacent building.
Env Problem:	The primary contaminant of concern at this site was lead, in soil and groundwater, and on building surfaces. A removal action conducted at the site has removed all hazardous waste.The site is not a significant environmental threat and was delisted from the Registry.
Health Problem:	On-site soil and groundwater were contaminated with lead. Contaminated soils were excavated and confirmatory samples indicated that the levels of lead remaining in on-site soils are nonhazardous. Exposure to contaminated groundwater is not expected since public water serves the area, and the groundwater flows toward the Atlantic Ocean.
Dump:	False
Structure:	True
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	unknown
Disp Term:	unknown
Lat/Long:	40:37:30:0 / 74:04:25:0
Dell:	False
Record Add:	11/18/1999 12:00:00 PM
Record Upd:	11/18/1999 12:00:00 PM
Updated By:	INITIAL
Own Op:	Owner
Sub Type:	D
Owner Name:	DEBBIE FELTON
Owner Company:	US NAVY NORTHERN DIV., NAVFAC ENGCOM
Owner Address:	10 INDUSTRIAL HIGHWAY, MAIL STOP 82
Owner Addr2:	Not reported
Owner City,St,Zip:	LESTER, PA 191132090
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	US Navy-Northern Div.- NAVFAC ENGCOM
Owner Address:	10 Industrial Highway - Mailstop 82
Owner Addr2:	Not reported
Owner City,St,Zip:	Lester, ZZ
Owner Country:	United States of America
Own Op:	On-Site Operator
Sub Type:	D
Owner Name:	Not reported
Owner Company:	UNKNOWN3
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	ZZ
Owner Country:	United States of America
HW Code:	243021
Waste Type:	LEAD (D008)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported

PARCEL P15 - FRONT STREET (Continued) **S106905136**

Record Updated: Not reported
Updated By: Not reported

N84
SSE
1/8-1/4
0.220 mi.
1164 ft.

Relative:
Lower

Actual:
8 ft.

44 CANAL ST **EDR US Hist Auto Stat** **1015496499**
STATEN ISLAND, NY 10304 **N/A**

Site 3 of 3 in cluster N

EDR Historical Auto Stations:

Name: CANAL STREET AUTO BODY
Year: 2001
Address: 44 CANAL ST

Name: GENES AUTO TOPS SUNROOFS
Year: 2002
Address: 44 CANAL ST

Name: GENES AUTO TOPS SNRFS INC
Year: 2005
Address: 44 CANAL ST

85
West
1/8-1/4
0.233 mi.
1229 ft.

Relative:
Higher

Actual:
83 ft.

TRINITY LUTHERAN CHURCH **UST** **U001841926**
309 SAINT PAULS AVE **HIST UST** **N/A**
STATEN ISLAND, NY 10304

UST:
Id/Status: 2-601439 / Active
Region: STATE
DEC Region: 2
Program Type: PBS
Expiration Date: 2013/04/07
UTM X: 577698.86378000001
UTM Y: 4498131.2798300004

Affiliation Records:
Site Id: 23405
Affiliation Type: Owner
Company Name: TRINITY LUTHERAN CHURCH
Contact Type: PASTOR
Contact Name: RICHARD F. MICHAEL
Address1: 309 ST PAULS AVE
Address2: Not reported
City: STATEN ISLAND
State: NY
Zip Code: 10304
Country Code: 001
Phone: (718) 447-0526
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: dxliving
Date Last Modified: 1/25/2008

Site Id: 23405

TRINITY LUTHERAN CHURCH (Continued) **U001841926**

Affiliation Type:	Mail Contact
Company Name:	TRINITY LUTHERAN CHURCH
Contact Type:	Not reported
Contact Name:	REV. RICHARD MICHAEL
Address1:	309 ST. PAULS AVENUE
Address2:	Not reported
City:	STATEN ISLAND
State:	NY
Zip Code:	10304
Country Code:	001
Phone:	(718) 447-0526
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	23405
Affiliation Type:	On-Site Operator
Company Name:	TRINITY LUTHERAN CHURCH
Contact Type:	Not reported
Contact Name:	REV RICHARD MICHAEL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 447-0526
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	23405
Affiliation Type:	Emergency Contact
Company Name:	TRINITY LUTHERAN CHURCH
Contact Type:	Not reported
Contact Name:	REV RICHARD MICHAEL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 447-0526
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Site ID:	23405

Tank Number:	001

TRINITY LUTHERAN CHURCH (Continued) **U001841926**

Tank ID: 46009
Tank Status: In Service
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
L09 - Piping Leak Detection - Exempt Suction Piping
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None

Install Date: 01/15/1963
Capacity Gallons: 5000
Tightness Test Method: 21
Next Test Date: 06/14/2014
Date Tank Closed: Not reported
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: 06/14/2009
Registered: True
Modified By: bkfalvey
Last Modified: 06/29/2009

Site ID: 23405

Tank Number: 002
Tank ID: 46010
Tank Status: In Service
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
L09 - Piping Leak Detection - Exempt Suction Piping
F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None

Install Date: 01/15/1960
Capacity Gallons: 5000
Tightness Test Method: 21
Next Test Date: 06/16/2014
Date Tank Closed: Not reported
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: 06/16/2009
Registered: True
Modified By: bkfalvey
Last Modified: 06/29/2009

TRINITY LUTHERAN CHURCH (Continued) **U001841926**

HIST UST:

PBS Number:	2-601439
SPDES Number:	Not reported
Emergency Contact:	REV THOMAS MUGARERO
Emergency Telephone:	(718) 447-0526
Operator:	REV THOMAS MUGARERO
Operator Telephone:	(718) 447-0526
Owner Name:	TRINITY LUTHERAN CHURCH
Owner Address:	309 ST PAULS AVE
Owner City,St,Zip:	STATEN ISLAND, NY 10304
Owner Telephone:	(718) 447-0526
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	TRINITY LUTHERAN CHURCH
Mailing Address:	309 ST. PAULS AVENUE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	STATEN ISLAND, NY 10304
Mailing Contact:	REV. THOMAS MUGARARO
Mailing Telephone:	(718) 447-0526
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:	309 SAINT PAULS AVE
SWIS ID:	6401
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:	02/04/2000
Expiration Date:	04/07/2003
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	10000
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:	64
Town or City:	01
Region:	2
Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	5000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None

TRINITY LUTHERAN CHURCH (Continued) **U001841926**

Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	11/01/1999
Next Test Date:	11/01/2004
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	5000
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:	None
Dispenser:	Suction
Date Tested:	11/01/1999
Next Test Date:	11/01/2004
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

86
South
1/8-1/4
0.234 mi.
1238 ft.

GREEN ELECTRONICS SERVICE PROVIDERS **RCRA NonGen / NLR** **1012184784**
92 CANAL ST **NYN008020778**
STATEN ISLAND, NY 10304

Relative:
Lower

Actual:
11 ft.

RCRA NonGen / NLR:

Date form received by agency:	03/30/2009
Facility name:	GREEN ELECTRONICS SERVICE PROVIDERS
Facility address:	92 CANAL ST STATEN ISLAND, NY 10304
EPA ID:	NYN008020778
Mailing address:	CANAL ST STATEN ISLAND, NY 10304

GREEN ELECTRONICS SERVICE PROVIDERS (Continued) **1012184784**

Contact: Not reported
Contact address: CANAL ST
STATEN ISLAND, NY 10304
Contact country: US
Contact telephone: (718) 727-3116
Contact email: Not reported
EPA Region: 02
Land type: Private
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

Evaluation Action Summary:
Evaluation date: 03/12/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

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87 **STATEN ISLAND REGIONAL OFFICE - R829** **AST** **U003394003**
NNW **90 GRANT ST (51 PAUL'S AVE)** **HIST AST** **N/A**
1/8-1/4 **STATEN ISLAND, NY 10301**
0.245 mi.
1295 ft.

Relative:
Higher

Actual:
27 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Unregulated
Facility Id: 2-351121
Program Type: PBS
UTM X: 578057.13624000002
UTM Y: 4498469.5420599999
Expiration Date: N/A

Affiliation Records:
Site Id: 17325
Affiliation Type: Owner
Company Name: NEW YORK CITY DEPARTMENT OF EDUCATION
Contact Type: MANAGER, FUEL DIVISION

STATEN ISLAND REGIONAL OFFICE - R829 (Continued) **U003394003**

Contact Name:	JAMES A. MERLO
Address1:	44-36 VERNON BOULEVARD
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5738
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	GDBREEN
Date Last Modified:	12/19/2012

Site Id:	17325
Affiliation Type:	Mail Contact
Company Name:	NYC 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) 349-5738
Phone Ext:	Not reported
Email:	JMERLO@SCHOOLS.NYC.GOV
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	9/3/2008

Site Id:	17325
Affiliation Type:	On-Site Operator
Company Name:	STATEN ISLAND REGIONAL OFFICE
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
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	4/23/2007

Site Id:	17325
Affiliation Type:	Emergency Contact
Company Name:	NEW YORK CITY DEPARTMENT OF EDUCATION
Contact Type:	Not reported
Contact Name:	SCHOOL SAFETY
Address1:	Not reported
Address2:	Not reported

STATEN ISLAND REGIONAL OFFICE - R829 (Continued) **U003394003**

City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 935-3300
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	12/27/2012

Tank Info:

Tank Number:	001
Tank Id:	33961

Equipment Records:

C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
F01 - Pipe External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
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
L09 - Piping Leak Detection - Exempt Suction Piping
I02 - Overfill - High Level Alarm

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	5000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	11/24/2006
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/23/2007

HIST AST:

PBS Number:	2-351121
SWIS Code:	6401
Operator:	PLANT OPERATION
Facility Phone:	(718) 391-6000
Facility Addr2:	GRANT ST & PAUL'S AVE
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

STATEN ISLAND REGIONAL OFFICE - R829 (Continued) **U003394003**

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:	08/26/1998
Expiration:	06/28/2003
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	5000
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:	64
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
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

STATEN ISLAND REGIONAL OFFICE - R829 (Continued) **U003394003**

SPDES Number: Not reported
Lat/Long: Not reported

88
North
1/8-1/4
0.248 mi.
1311 ft.

RICHMOND DISTRIBUTION CHAMBER
SAINT JULIAN PL & VANDUZER ST
STATEN ISLAND, NY 10301

RCRA-CESQG **1004761928**
FINDS **NYR000091819**
MANIFEST
MANIFEST

Relative:
Higher

Actual:
16 ft.

RCRA-CESQG:

Date form received by agency:	03/14/2008
Facility name:	RICHMOND DISTRIBUTION CHAMBER
Facility address:	VAN DUZER ST AND ST JULIAN PL STATEN ISLAND, NY 10301
EPA ID:	NYR000091819
Mailing address:	-17 JUNCTION BOULEVARD CORONA-ELMHURST, NY 11373
Contact:	MICHAEL FARNAN
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(718) 595-5751
Contact email:	mfarnan@dep.nyc.gov
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:	NYC DEPT OF ENVIRONMENTAL PROTECTION
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:	01/01/0001
Owner/Op end date:	Not reported

Owner/operator name:	NYC DEPT OF ENV PROTECTION
Owner/operator address:	-17 JUNCTION BOULEVARD CORONA-ELMHURST, NY 11373
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Municipal

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

Owner/Operator Type: Owner
Owner/Op start date: 01/01/1950
Owner/Op end date: Not reported

Owner/operator name: NYC DEPT OF ENV PROTECTION
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: 01/01/1950
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: 01/01/2007
Facility name: RICHMOND DISTRIBUTION CHAMBER
Site name: NYCDEP - RICHMOND DISTRIBUTION CHAMBER
Classification: Small Quantity Generator

Date form received by agency: 01/01/2006
Facility name: RICHMOND DISTRIBUTION CHAMBER
Site name: NYCDEP - RICHMOND DISTRIBUTION CHAMBER
Classification: Small Quantity Generator

Date form received by agency: 10/18/2000
Facility name: RICHMOND DISTRIBUTION CHAMBER
Site name: NYCDEP - RICHMOND DISTRIBUTION CHAMBER
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:
Waste code: D009
Waste name: MERCURY

Waste code: D009
Waste name: MERCURY

Violation Status: No violations found

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

FINDS:

Registry ID: 110008113521

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.

HAZARDOUS WASTE BIENNIAL REPORTER

NJ MANIFEST:

Manifest Code:	001033935JJK
EPA ID:	NYR000091819
Date Shipped:	09/25/2007
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:	09/25/2007
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:	09/25/2007
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
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

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

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
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	D009
Manifest Year:	2007 New Jersey Manifest Data
Quantity:	280
Unit:	G
Hand Code:	H14

Manifest Code:	001033942JJK
EPA ID:	NYR000091819
Date Shipped:	09/27/2007
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:	09/27/2007
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:	09/27/2007
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
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

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	2007 New Jersey Manifest Data
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	001031656JJK
EPA ID:	NYR000091819
Date Shipped:	10/18/2007
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:	10/18/2007
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:	10/18/2007
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
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

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	NJA5067461
EPA ID:	NYR000091819
Date Shipped:	08/20/2004
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:	08/20/2004
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:	08/23/2004
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
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

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

Manifest Discrepancy Type:	Not reported
Data Entry Number:	10010422
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	NJA5206232
EPA ID:	NYR000091819
Date Shipped:	08/30/2004
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:	08/30/2004
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:	09/01/2004
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
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

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

Data Entry Number:	10120422
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	003535019JJK
EPA ID:	NYR000091819
Date Shipped:	10/05/2007
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:	10/05/2007
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:	10/05/2007
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
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

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	003535003JJK
EPA ID:	NYR000091819
Date Shipped:	10/04/2007
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:	10/04/2007
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:	10/04/2007
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
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
Reference Manifest Number:	Not reported

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	D009
Manifest Year:	2007 New Jersey Manifest Data
Quantity:	235
Unit:	G
Hand Code:	H14

Manifest Code:	001033946JJK
EPA ID:	NYR000091819
Date Shipped:	10/01/2007
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:	10/01/2007
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:	10/01/2007
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
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
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

Reason Load Was Rejected:	Not reported
Waste Code:	D009
Manifest Year:	2007 New Jersey Manifest Data
Quantity:	345
Unit:	G
Hand Code:	H14

Manifest Code:	001033990JJK
EPA ID:	NYR000091819
Date Shipped:	10/03/2007
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:	10/03/2007
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:	10/03/2007
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
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
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

Waste Code:	D009
Manifest Year:	2007 New Jersey Manifest Data
Quantity:	325
Unit:	G
Hand Code:	H14

Manifest Code:	001033980JJK
EPA ID:	NYR000091819
Date Shipped:	10/02/2007
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:	10/02/2007
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:	10/02/2007
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
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
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	D009

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

Manifest Year:	2007 New Jersey Manifest Data
Quantity:	285
Unit:	G
Hand Code:	H14

Manifest Code:	001033945JJK
EPA ID:	NYR000091819
Date Shipped:	09/26/2007
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:	09/26/2007
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:	09/26/2007
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
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
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	D009
Manifest Year:	2007 New Jersey Manifest Data

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

Quantity: 250
Unit: G
Hand Code: H14

NY MANIFEST:
EPA ID: NYR000091819
Country: USA
Mailing Name: NYCDEP
Mailing Contact: PAUL SABELLA
Mailing Address: 59-17 JUNCTION BLVD
Mailing Address 2: Not reported
Mailing City: FLUSHING
Mailing State: NY
Mailing Zip: 11373
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 718-595-4784

Document ID: NJA5121568
Manifest Status: Not reported
Trans1 State ID: NJD003812047
Trans2 State ID: NJD003812047
Generator Ship Date: 08/21/2003
Trans1 Recv Date: 08/21/2003
Trans2 Recv Date: 08/29/2003
TSD Site Recv Date: 08/29/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000091819
Trans1 EPA ID: NJD991291105
Trans2 EPA ID: Not reported
TSDF ID: H10376
Waste Code: D009 - MERCURY 0.2 MG/L TCLP
Quantity: 00200
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 01.00
Waste Code: D009 - MERCURY 0.2 MG/L TCLP
Quantity: 00025
Units: G - Gallons (liquids only)* (8.3 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: 01.00
Year: 2003

Document ID: PAH0206463
Manifest Status: Not reported
Trans1 State ID: NJD003812047
Trans2 State ID: Not reported
Generator Ship Date: 10/03/2005

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

Trans1 Recv Date:	10/03/2005
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/06/2005
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000091819
Trans1 EPA ID:	PAAH0339
Trans2 EPA ID:	Not reported
TSDF ID:	PAD987367216
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00600
Units:	P - Pounds
Number of Containers:	007
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	Not reported

Document ID:	NYG2510145
Manifest Status:	Not reported
Trans1 State ID:	NYD049178296
Trans2 State ID:	Not reported
Generator Ship Date:	12/19/2000
Trans1 Recv Date:	12/19/2000
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/20/2000
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000091819
Trans1 EPA ID:	NYD049178296
Trans2 EPA ID:	Not reported
TSDF ID:	NYPC4339
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00010
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:	01.00
Year:	2000

Document ID:	NJA3277601
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	NJD003812047
Generator Ship Date:	11/04/2002
Trans1 Recv Date:	11/04/2002
Trans2 Recv Date:	11/04/2002
TSD Site Recv Date:	11/05/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000091819
Trans1 EPA ID:	NJD991291105
Trans2 EPA ID:	Not reported
TSDF ID:	Not reported

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

Waste Code: D009 - MERCURY 0.2 MG/L TCLP
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: 01.00
Waste Code: D009 - MERCURY 0.2 MG/L TCLP
Quantity: 00500
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 01.00
Year: 2002

Document ID: NJA4135780
Manifest Status: Not reported
Trans1 State ID: NJD003812047
Trans2 State ID: NJD003812047
Generator Ship Date: 11/01/2002
Trans1 Recv Date: 11/01/2002
Trans2 Recv Date: 11/01/2002
TSD Site Recv Date: 11/05/2002
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000091819
Trans1 EPA ID: NJD991291105
Trans2 EPA ID: Not reported
TSDF ID: H10376
Waste Code: D009 - MERCURY 0.2 MG/L TCLP
Quantity: 00045
Units: P - Pounds
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 01.00
Waste Code: D009 - MERCURY 0.2 MG/L TCLP
Quantity: 00050
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: 01.00
Year: 2002

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NJ0000027193
Trans2 State ID: Not reported
Generator Ship Date: 10/18/2007
Trans1 Recv Date: 10/18/2007
Trans2 Recv Date: Not reported
TSD Site Recv Date: 10/18/2007
Part A Recv Date: Not reported

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

Part B Recv Date:	Not reported
Generator EPA ID:	NYR000091819
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	138
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:	2007
Manifest Tracking Num:	001031656JJK
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:	9/25/2007
Trans1 Recv Date:	9/25/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	9/25/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000091819
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	280
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:	2007
Manifest Tracking Num:	001033935JJK
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

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

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:	9/27/2007
Trans1 Recv Date:	9/27/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	9/27/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000091819
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	180
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:	2007
Manifest Tracking Num:	001033942JJK
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:	9/26/2007
Trans1 Recv Date:	9/26/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	9/26/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000091819
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

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:	2007
Manifest Tracking Num:	001033945JJK
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:	10/1/2007
Trans1 Recv Date:	10/1/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/1/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000091819
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	345
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:	2007
Manifest Tracking Num:	001033946JJK
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

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	10/2/2007
Trans1 Recv Date:	10/2/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/2/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000091819
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	285
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:	2007
Manifest Tracking Num:	001033980JJK
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:	10/3/2007
Trans1 Recv Date:	10/3/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/3/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000091819
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	325
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

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

Year:	2007
Manifest Tracking Num:	001033990JJK
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:	10/4/2007
Trans1 Recv Date:	10/4/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/4/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000091819
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	235
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:	2007
Manifest Tracking Num:	003535003JJK
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:	10/5/2007
Trans1 Recv Date:	10/5/2007

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/5/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000091819
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	307
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:	2007
Manifest Tracking Num:	003535019JJK
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:	NJA5067461
Manifest Status:	Not reported
Trans1 State ID:	H10376
Trans2 State ID:	Not reported
Generator Ship Date:	08/20/2004
Trans1 Recv Date:	08/20/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/23/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000091819
Trans1 EPA ID:	NJD003812047
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00280
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	007
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00100
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

Specific Gravity: 01.00
Year: 2004

Document ID: NJA5206232
Manifest Status: Not reported
Trans1 State ID: H10376
Trans2 State ID: Not reported
Generator Ship Date: 08/30/2004
Trans1 Recv Date: 08/30/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 09/01/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000091819
Trans1 EPA ID: NJD003812047
Trans2 EPA ID: Not reported
TSDF ID: NJD991291
Waste Code: D009 - MERCURY 0.2 MG/L TCLP
Quantity: 00075
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: 01.00
Waste Code: D009 - MERCURY 0.2 MG/L TCLP
Quantity: 00100
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: PAH0206463
Manifest Status: Not reported
Trans1 State ID: NJD003812047
Trans2 State ID: Not reported
Generator Ship Date: 10/03/2005
Trans1 Recv Date: 10/03/2005
Trans2 Recv Date: Not reported
TSD Site Recv Date: 10/06/2005
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000091819
Trans1 EPA ID: PAAH0339
Trans2 EPA ID: Not reported
TSDF ID: PAD987367216
Waste Code: D009 - MERCURY 0.2 MG/L TCLP
Quantity: 00600
Units: P - Pounds
Number of Containers: 007
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 01.00
Year: Not reported

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	2007-10-18
Trans1 Recv Date:	2007-10-18
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2007-10-18
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000091819
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	138.0
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:	2007
Manifest Tracking Num:	001031656JJK
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:	2007-09-25
Trans1 Recv Date:	2007-09-25
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2007-09-25
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000091819
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	280.0
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

RICHMOND DISTRIBUTION CHAMBER (Continued) **1004761928**

Year:	2007
Manifest Tracking Num:	001033935JJK
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:	2007-09-27
Trans1 Recv Date:	2007-09-27
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2007-09-27
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000091819
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	180.0
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:	2007
Manifest Tracking Num:	001033942JJK
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

Click this hyperlink while viewing on your computer to access
6 additional NY_MANIFEST: record(s) in the EDR Site Report.

89
NNE
1/4-1/2
0.297 mi.
1566 ft.

STATEN ISLAND TRANSIT
293 BAY ST
STATEN ISLAND, NY

LTANKS **S104516902**
HIST LTANKS **N/A**
NY Spills

Relative:
Higher

Actual:
17 ft.

LTANKS:

Site ID:	213162
Spill Number/Closed Date:	9914731 / 6/27/2008
Spill Date:	3/29/2000
Spill Cause:	Tank Test Failure
Spill Source:	Private Dwelling
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:	4301
Investigator:	MCTIBBE
Referred To:	NFA
Reported to Dept:	3/29/2000
CID:	270
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:	3/29/2000
Spill Record Last Update:	6/27/2008
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller County:	999
Spiller Contact:	SINGH
Spiller Phone:	(516) 293-6920
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	113620
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL"03/29/05 - Transferred from Rommel to Tibbe.06/27/08: This spill was investigated along with 0706499, which pertains to the same tank. 9914731 pertains to a tank test failure that was ultimately determined to be a leak in a vent line. 0704699 pertains to a tank test failure that was determined to be a Stage Two line. The investigation consisted of three borings installed around the tanks and dispensers. Soil and GW samples were collected. VOC soil results were very minor to ND, but SVOC results were high for SB-1 and SB-3 at 320,200ppb and 640,700ppb, respectively. The boring logs noted that no odors or staining was encountered and the PID readings were low (4ppm) to ND. The boring logs also noted that the top 10 feet was fill material. GW was encountered at 10 feet. GW results for VOC and SVOC were very minor to ND. A supplimental investigation was performed to try to determine if the SVOC results were indicative of background contamination from the fill material. Two borings were performed 40+ feet from the area of concern. The boring logs did not note any odors or staining, and the PID readings ranged from 2ppm to ND. Two soil samples were taken from each boring at the interval that demostrated the most likely to be contaminated based on the PID

STATEN ISLAND TRANSIT (Continued) **S104516902**

reading. Soil results from SB-4 were ND for both samples but SB-5 had 38,110 ppb SVOC at the 5-7 foot interval with a corresponding 1ppm PID reading. SB-1 had 320,200ppb at 8-10 feet and a 4ppm PID reading and SB-3 had 640,700ppb at 8-10 feet and a 1ppm PID reading. Based on the lack of physical indications of contamination, no correltation between alaytical results and PID readings, fill material encountered from the surface to the water table, the lack of groundwater contamination, and the leak locations in non-product lines, it can be surmized that the SVOC contamination may be indicative of background fill contamination.

Remarks: NP COMMENTS

Material:

Site ID:	213162
Operable Unit ID:	1092668
Operable Unit:	01
Material ID:	293022
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:

Site ID:	213162
Spill Tank Test:	1548172
Tank Number:	Not reported
Tank Size:	2500
Test Method:	20
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	USTest 2000/P/LL plus USTest 2000/U

Site ID:	384906
Spill Number/Closed Date:	0704699 / 6/27/2008
Spill Date:	7/26/2007
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:	4301
Investigator:	mctibbe
Referred To:	9914731
Reported to Dept:	7/26/2007
CID:	444
Water Affected:	Not reported
Spill Notifier:	Tank Tester

STATEN ISLAND TRANSIT (Continued) **S104516902**

Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	7/26/2007
Spill Record Last Update:	6/27/2008
Spiller Name:	DON YARKZOWER
Spiller Company:	NYC TRANSIT YARD
Spiller Address:	293 BAY STREET
Spiller City,St,Zip:	STATEN ISLAND, NY
Spiller County:	001
Spiller Contact:	DON YARKZOWER
Spiller Phone:	(718) 876-8267
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	113620
DEC Memo:	08-02-07: Tibbe onsite for an old spill for this same tank. Tank system is being completely upgraded, except tank. While excavation and repair work is being done, investigation will be performed. Reassigned to Tibbe from Falvey.06-27-08: Spill investigated as part of older spill. Refered to 9914731. MCT
Remarks:	PBS No: 2-479829STAGE TWO LINE

Material:

Site ID:	384906
Operable Unit ID:	1142191
Operable Unit:	01
Material ID:	2132414
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	384906
Spill Tank Test:	1551031
Tank Number:	1
Tank Size:	4000
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Watchdog
Last Modified:	7/26/2007
Test Method:	Horner EZ Check I or II

HIST LTANKS:

Region of Spill:	2
Spill Number/Closed Date:	9914731 / Not Closed
Spill Date:	03/29/2000
Spill Time:	11:00

STATEN ISLAND TRANSIT (Continued) **S104516902**

Spill Cause: Tank Test Failure
Resource Affectd: On Land
Water Affected: Not reported
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: / /
Cleanup Meets Standard: False
Investigator: ROMMEL
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 03/29/00
Reported to Department Time: 11:56
SWIS: 64
Spiller Contact: SINGH
Spiller Phone: (516) 293-6920
Spiller Extention: Not reported
Spiller Name: UNKNOWN
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: ( ) -
Facility Extention: Not reported
Spill Notifier: Tank Tester
PBS Number: 2-479829
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 03/29/00
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 03/29/00
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: 2500
Test Method: USTest 2000
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Gallons

STATEN ISLAND TRANSIT (Continued) **S104516902**

Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Spill Cause: NP COMMENTS

SPILLS:
Facility ID: 0110131
DER Facility ID: 113620
Facility Type: ER
Site ID: 131873
DEC Region: 2
Spill Date: 1/22/2002
Spill Number/Closed Date: 0110131 / 11/22/2002
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 4301
Investigator: MCTIBBE
Referred To: Not reported
Reported to Dept: 1/22/2002
CID: 205
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: 1/22/2002
Spill Record Last Update: 11/22/2002
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: CALLER
Contact Phone: Not reported
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"SPILL TO SOIL OCCURED DURING DELIVERY OF EQUIPMENT (TAMPER). SOIL EXCAVATED BY NYCT PERSONNEL UNTIL NO VISIBLE SIGNS OF CONTAMINATION EXISTS. EXCAVATED SOIL WAS DRUMMED AND PROPERLY DISPOSED OF.
Remarks: pump failed on subway car. cleanup in progress.

Material:
Site ID: 131873
Operable Unit ID: 848622
Operable Unit: 01
Material ID: 527764
Material Code: 0010

STATEN ISLAND TRANSIT (Continued) **S104516902**

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:

---

90 SW 1/4-1/2 0.322 mi. 1702 ft. **ROKICKI RESIDENCE** **LTANKS S102960515**
3 COURT ST **HIST LTANKS N/A**
STATEN ISLAND, NY

Relative: Higher

Actual: 69 ft.

LTANKS:

Site ID:	99237
Spill Number/Closed Date:	9711577 / 2/4/1998
Spill Date:	1/7/1998
Spill Cause:	Tank Overfill
Spill Source:	Private Dwelling
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:	4301
Investigator:	MMMULQUE
Referred To:	Not reported
Reported to Dept:	1/13/1998
CID:	999
Water Affected:	Not reported
Spill Notifier:	Affected Persons
Last Inspection:	1/14/1998
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/15/1998
Spill Record Last Update:	2/4/1998
Spiller Name:	MR KEN SILVERMAN
Spiller Company:	MADISON FUEL OIL
Spiller Address:	2125 MILL AVE
Spiller City,St,Zip:	BROOKLYN, NY 11234-
Spiller County:	001
Spiller Contact:	DIANE ROKICKI
Spiller Phone:	(718) 447-1967
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	88219
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MULQUEEN"MULQUEEN INSPECTED LOCATION ON 1/14/98. OIL DISCHARGED OUTSIDE OF HOME FROM VENT PIPE, IMPACTING SOILS UNDER VENT PIPE AND SOILS IN WINDOW BOX. INSPECTED BASEMENT. MINIMAL IMPACT TO SOILS BELOW CONCRETE. TANK RUPTURED ALONG THE SEAM. TANK HAD SOME RUSTING BUT WAS IN SATISFACTORY CONDITION PRIOR TO OVERFILL. MADISON

ROKICKI RESIDENCE (Continued) **S102960515**

SUB-CONTRACTED JOB TO MGM TRUCKING.
Remarks: OVERFILL TO 275 GALLON OIL TANK - SPILL IN SOIL AND BASEMENT. HOME OWNERS CLEANING BASEMENT THEMSELVES. OIL CO IS NOT TAKING RESPONSIBILITY SO FAR - TANK IS DAMAGED.

Material:
Site ID: 99237
Operable Unit ID: 1054342
Operable Unit: 01
Material ID: 326230
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:

HIST LTANKS:
Region of Spill: 2
Spill Number/Closed Date: 9711577 / 02/04/98
Spill Date: 01/07/1998
Spill Time: 12:00
Spill Cause: Tank Overfill
Resource Affectd: On Land
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: / /
Cleanup Meets Standard: False
Investigator: MULQUEEN
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 01/13/98
Reported to Department Time: 16:42
SWIS: 64
Spiller Contact: DIANE ROKICKI
Spiller Phone: (718) 447-1967
Spiller Extention: Not reported
Spiller Name: MADISON FUEL OIL
Spiller Address: 2125 MILL AVE
Spiller City,St,Zip: BROOKLYN, NY 11234-
Spiller Cleanup Date: / /
Facility Contact: MR KEN SILVERMAN

ROKICKI RESIDENCE (Continued) **S102960515**

Facility Phone: (718) 444-3400
Facility Extention: Not reported
Spill Notifier: Affected Persons
PBS Number: Not reported
Last Inspection: 01/14/98
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 01/15/98
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 02/04/98
Is Updated: False

Tank:

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: MULQUEEN INSPECTED LOCATION ON 1/14/98. OIL DISCHARGED OUTSIDE OF HOME FROM VENT PIPE, IMPACTING SOILS UNDER VENT PIPE AND SOILS IN WINDOW BOX. INSPECTED BASEMENT. MINIMAL IMPACT TO SOILS BELOW CONCRETE. TANK RUPTURED ALONG THE SEAM. TANK HAD SOME RUSTING BUT WAS IN SATISFACTORY CONDITION PRIOR TO OVERFILL. MADISON SUB-CONTRACTED JOB TO MGM TRUCKING.
Spill Cause: OVERFILL TO 275 GALLON OIL TANK - SPILL IN SOIL AND BASEMENT. HOME OWNERS CLEANING BASEMENT THEMSELVES. OIL CO IS NOT TAKING RESPONSIBILITY SO FAR - TANK IS DAMAGED.

91
West
1/4-1/2
0.323 mi.
1708 ft.

37 MARION AVE **LTANKS** **S102960522**
37 MARION AVE **HIST LTANKS** **N/A**
STATEN ISLAND, NY

Relative:
Higher

Actual:
128 ft.

LTANKS:
Site ID: 254532
Spill Number/Closed Date: 9712019 / 2/19/2003
Spill Date: 1/28/1998
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: 4301
Investigator: TOMASELLO
Referred To: Not reported

37 MARION AVE (Continued) **S102960522**

Reported to Dept:	1/28/1998
CID:	205
Water Affected:	Not reported
Spill Notifier:	Federal Government
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/28/1998
Spill Record Last Update:	2/19/2003
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
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:	208484
DEC Memo:	Not reported
Remarks:	f.d. called in spill. no further info.

Material:

Site ID:	254532
Operable Unit ID:	1058397
Operable Unit:	01
Material ID:	326650
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:

HIST LTANKS:

Region of Spill:	2
Spill Number/Closed Date:	9712019 / Not Closed
Spill Date:	01/28/1998
Spill Time:	01:30
Spill Cause:	Tank Overfill
Resource Affectd:	On Land
Water Affected:	Not reported
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:	/ /
Cleanup Meets Standard:	False
Investigator:	TOMASELLO
Caller Name:	Not reported

37 MARION AVE (Continued) **S102960522**

Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	01/28/98
Reported to Department Time:	06:58
SWIS:	64
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	Not reported
Facility Extention:	Not reported
Spill Notifier:	Federal Government
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	01/28/98
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	01/28/98
Is Updated:	False

Tank:

Material:

Material Class Type:	Petroleum
Quantity Spilled:	20
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	#2 FUEL OIL
Class Type:	#2 FUEL OIL
Times Material Entry In File:	24464
CAS Number:	Not reported
Last Date:	19941207
DEC Remarks:	Not reported
Spill Cause:	f.d. called in spill. no further info.

92
North
1/4-1/2
0.355 mi.
1872 ft.

CONTAMINATED SOIL
260 BAY ST
STATEN ISLAND, NY

HIST LTANKS **S102555966**
N/A

Relative:
Higher

Actual:
25 ft.

HIST LTANKS:

Region of Spill:	2
Spill Number/Closed Date:	9700621 / Not Closed
Spill Date:	04/14/1997
Spill Time:	09:00
Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Gas Station
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Investigator:	O'DOWD
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	04/14/97
Reported to Department Time:	15:47
SWIS:	64
Spiller Contact:	INACTIVE
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	LEAKING TANKS
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	Not reported
Facility Extention:	Not reported
Spill Notifier:	Local Agency
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	True
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	04/14/97
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	04/16/97
Is Updated:	False

Tank:

Material:

Material Class Type:	Petroleum

CONTAMINATED SOIL (Continued) **S102555966**

Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Spill Cause: INACTIVE GAS STATION- CONTAMINATED SOIL -BEEN REMOVED UNTIL GROUNDWATER WAS HIT-TESTING DONE RESULTS PENDING

93
South
1/4-1/2
0.363 mi.
1917 ft.

55 BROWNELL STREET
55 BROWNELL STREET
STATEN ISLAND, NY

LTANKS **S102234173**
HIST LTANKS **N/A**
NY Spills
NY Hist Spills

Relative:
Higher

Actual:
33 ft.

LTANKS:
Site ID: 129716
Spill Number/Closed Date: 9506831 / 9/5/1995
Spill Date: 9/5/1995
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: 9/5/1995
Cleanup Meets Standard: True
SWIS: 4301
Investigator: SMMARTIN
Referred To: Not reported
Reported to Dept: 9/5/1995
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: 10/5/1995
Spill Record Last Update: 9/30/2004
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: 111816
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MARTINKAT"
Remarks: LESS THAN A QUART DRIPED ONTO FLOOR AND CLEANED UP

55 BROWNELL STREET (Continued) **S102234173**

Material:

Site ID:	129716
Operable Unit ID:	1021594
Operable Unit:	01
Material ID:	364788
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

Tank Test:

HIST LTANKS:

Region of Spill:	2
Spill Number/Closed Date:	9506831 / 09/05/95
Spill Date:	09/05/1995
Spill Time:	11:00
Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported
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:	09/05/95
Cleanup Meets Standard:	True
Investigator:	MARTINKAT
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	09/05/95
Reported to Department Time:	11:07
SWIS:	64
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	SAME
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	Not reported
Facility Extention:	Not reported
Spill Notifier:	Other
PBS Number:	Not reported
Last Inspection:	/ /

55 BROWNELL STREET (Continued) **S102234173**

Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 10/05/95
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: / /
Is Updated: False

Tank:

Material:
Material Class Type: Petroleum
Quantity Spilled: 1
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 1
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Spill Cause: LESS THAN A QUART DRIPED ONTO FLOOR AND CLEANED UP

SPILLS:
Facility ID: 9501229
DER Facility ID: 111816
Facility Type: ER
Site ID: 129715
DEC Region: 2
Spill Date: 4/28/1995
Spill Number/Closed Date: 9501229 / 4/28/1995
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 4301
Investigator: KSTANG
Referred To: Not reported
Reported to Dept: 4/28/1995
CID: Not reported
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Notifier: Other
Cleanup Ceased: 4/28/1995
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 5/16/1995
Spill Record Last Update: 11/5/2003
Spiller Name: Not reported
Spiller Company: SIPCO OIL CO

55 BROWNELL STREET (Continued) **S102234173**

Spiller Address: 2541 RICHMOND TERRACE
Spiller City,St,Zip: STATEN ISLAND, 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 "TANG"
Remarks: DRIVER MADE DELIVERY - OIL DRIPPED OUT FROM GASKET ON OIL GAUGE - ONTO CEMENT FLOOR - MATERIAL CLEANED UP - GAUGE REPLACED.

Material:
Site ID: 129715
Operable Unit ID: 1012014
Operable Unit: 01
Material ID: 369844
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

Tank Test:

NY Hist Spills:
Region of Spill: 2
Spill Number/Closed Date: 9501229 / 04/28/95
Investigator: TANG
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 04/28/1995 14:45
Reported to Dept Date/Time: 04/28/95 15:15
SWIS: 64
Spiller Name: SIPCO OIL CO
Spiller Contact: Not reported
Spiller Phone: (718) 448-3750
Spiller Address: 2541 RICHMOND TERRACE
Spiller City,St,Zip: STATEN ISLAND, NY
Spill Cause: Equipment Failure
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 09
Spill Notifier: Other
PBS Number: Not reported
Cleanup Ceased: 04/28/95
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /

55 BROWNELL STREET (Continued) **S102234173**

Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 05/16/95
Date Spill Entered In Computer Data File: Not reported
Update Date: / /
Is Updated: False

Tank:

Material:
Material Class Type: Petroleum
Quantity Spilled: 1
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 1
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Remark: DRIVER MADE DELIVERY - OIL DRIPPED OUT FROM GASKET ON OIL GAUGE - ONTO CEMENT FLOOR - MATERIAL CLEANED UP - GAUGE REPLACED.

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94 **CROMWELL CENTER** **LTANKS** **S103824670**
NNE **PIER 6 - BAY ST/HANNAH ST** **HIST LTANKS** **N/A**
1/4-1/2 **STATEN ISLAND, NY**
0.404 mi.
2131 ft.

Relative:
Lower

Actual:
9 ft.

LTANKS:
Site ID: 134976
Spill Number/Closed Date: 9813003 / Not Closed
Spill Date: 1/22/1999
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: 4301
Investigator: TJDEMEO
Referred To: Not reported
Reported to Dept: 1/22/1999
CID: 365
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 1
Date Entered In Computer: 1/22/1999
Spill Record Last Update: 8/17/2012

CROMWELL CENTER (Continued) **S103824670**

Spiller Name:	ELLIOT BORACK
Spiller Company:	CROMWELL CENTER
Spiller Address:	PIER 6 - BAY ST/HANNAH ST
Spiller City,St,Zip:	STATEN ISLAND, NY
Spiller County:	001
Spiller Contact:	ELLIOT BORACK
Spiller Phone:	(718) 390-8014
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	115877
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MULQUEEN"INITIAL REPORT UNDER NYSDEC # 98-12828 FOR UNKNOWN SPILL CAUSE. FUEL CARRIER DELIVERED OIL TO AN UNREGISTERED, UNTESTED UST OPERATED BY CITY PARKS. CITY PARKS WAS ORDERED TO TEST TANK. MULQUEEN WITNESSED HORNER EZ3 TEST WITH GROSS FAILURE ON 1/22/99. TANK EMPTIED AND TEMP TANK PUT ON SITE. PIPING DIVORCED FROM TANK. TANK PASSED TEST, PIPING FAILIED. PARKS DEPARTMENT FORWARDED TANK REPAIR AND SUBSURFACE INVESTIGATION TO NYC DDC.06/12/06: This spill is transferred fom Mike Mulqueen to Mr. Koon Tang.9/22/10 Transferred to b. falvey8/17/12 Spill re-assigned to T. Demeo as per RSE. bf
Remarks:	FAILED TANK TEST - THEY WILL DIVORCE ALL PIPING, PUT IN TEMPORARY TANK & RETEST

Material:

Site ID:	134976
Operable Unit ID:	1070267
Operable Unit:	01
Material ID:	313276
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:	134976
Spill Tank Test:	1546769
Tank Number:	1
Tank Size:	10000
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

HIST LTANKS:

Region of Spill:	2
Spill Number/Closed Date:	9813003 / Not Closed
Spill Date:	01/22/1999
Spill Time:	12:30

CROMWELL CENTER (Continued) **S103824670**

Spill Cause:	Tank Test Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Other Commercial/Industrial
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Investigator:	MULQUEEN
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	01/22/99
Reported to Department Time:	12:58
SWIS:	64
Spiller Contact:	ELLIOT BORACK
Spiller Phone:	(718) 390-8014
Spiller Extention:	Not reported
Spiller Name:	CROMWELL CENTER
Spiller Address:	PIER 6 - BAY ST/HANNAH ST
Spiller City,St,Zip:	STATEN ISLAND, NY
Spiller Cleanup Date:	/ /
Facility Contact:	ELLIOT BORACK
Facility Phone:	(718) 390-8014
Facility Extention:	Not reported
Spill Notifier:	Tank Tester
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	01/22/99
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	05/04/99
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	1
Tank Size:	10000
Test Method:	Horner EZ Check
Leak Rate Failed Tank:	0.00
Gross Leak Rate:	Talk Test Failures only pass or fail

Material:

Material Class Type:	Petroleum
Quantity Spilled:	0
Unkonwn Quantity Spilled:	False
Units:	Gallons

CROMWELL CENTER (Continued) **S103824670**

Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: INITIAL REPORT UNDER NYSDEC 98-12828 FOR UNKNOWN SPILL CAUSE. FUEL CARRIER DELIVERED OIL TO AN UNREGISTERED, UNTESTED UST OPERATED BY CITY PARKS. CITY PARKS WAS ORDERED TO TEST TANK. MULQUEEN WITNESSED HORNER EZ3 TEST WITH GROSS FAILURE ON 1/22/99. TANK EMPTIED AND TEMP TANK PUT ON SITE. PIPING DIVORCED FROM TANK. TANK PASSED TEST, PIPING FAILIED. PARKS DEPARTMENT FORWARDED TANK REPAIR AND SUBSURFACE INVESTIGATION TO NYC DDC.
Spill Cause: FAILED TANK TEST - THEY WILL DIVORCE ALL PIPING, PUT IN TEMPORARY TANK RETEST

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95 SSW 1/4-1/2 0.418 mi. 2206 ft.

2 TOMPKINS AVE/S.I
2 TOMPKINS AVENUE
NEW YORK CITY, NY

LTANKS S106703312
HIST LTANKS N/A

Relative: Higher

Actual: 22 ft.

LTANKS:
Site ID: 207342
Spill Number/Closed Date: 8809342 / 5/5/2005
Spill Date: 3/2/1989
Spill Cause: Tank Test Failure
Spill Source: Gasoline Station
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: 4301
Investigator: KMFOLEY
Referred To: Not reported
Reported to Dept: 3/3/1989
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: 3/8/1989
Spill Record Last Update: 5/5/2005
Spiller Name: Not reported
Spiller Company: CHEVRON
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: 172085
DEC Memo: 02/18/2004- AUSTIN - GAS STATION SITE - REASSIGNED TO ROMMEL5/5/05
Reassigned from Rommel to Foley. Old Gulf station. Found letter from Fenley & Nichol dated 5/2/89 to the Dept. with soil boring results. Analysis was completed for "petroleum products in soil" on 4/25/89.

2 TOMPKINS AVE/S.I (Continued) **S106703312**

Samples taken at 3' and 6'bgs and did not show contamination.
Remarks: 550 GALLON TANK FAILED HORNER EZY WITH A LEAK RATE OF -.095GPH.

Material:
Site ID: 207342
Operable Unit ID: 925402
Operable Unit: 01
Material ID: 454092
Material Code: 0022
Material Name: Waste Oil/Used Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: -1
Units: Pounds
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: 207342
Spill Tank Test: 1535219
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

HIST LTANKS:
Region of Spill: 2
Spill Number/Closed Date: 8809342 / Not Closed
Spill Date: 03/02/1989
Spill Time: 12:48
Spill Cause: Tank Test Failure
Resource Affectd: Groundwater
Water Affected: Not reported
Spill Source: Gas Station
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: / /
Cleanup Meets Standard: False
Investigator: TOMASELLO
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 03/03/89
Reported to Department Time: 09:21
SWIS: 64

2 TOMPKINS AVE/S.I (Continued) **S106703312**

Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	CHEVRON
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	(301) 337-4939
Facility Extention:	Not reported
Spill Notifier:	Tank Tester
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	True
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	03/08/89
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	11/06/01
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	0
Test Method:	Not reported
Leak Rate Failed Tank:	0.00
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	-1
Unkonwn Quantity Spilled:	False
Units:	Pounds
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	WASTE OIL
Class Type:	WASTE OIL
Times Material Entry In File:	9509
CAS Number:	Not reported
Last Date:	19940927
DEC Remarks:	Not reported
Spill Cause:	550 GALLON TANK FAILED HORNER EZY WITH A LEAK RATE OF -.095GPH.

96
South
1/4-1/2
0.439 mi.
2318 ft.

80 HARRISON ST
STATEN ISLAND, NY

LTANKS **S104619694**
HIST LTANKS **N/A**
NY Spills

Relative:
Higher

Actual:
57 ft.

LTANKS:

Site ID:	230023
Spill Number/Closed Date:	9807454 / 11/4/1998
Spill Date:	9/17/1998
Spill Cause:	Tank Failure

(Continued) **S104619694**

Spill Source:	Private Dwelling
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:	4301
Investigator:	O'DOWD
Referred To:	Not reported
Reported to Dept:	9/17/1998
CID:	322
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:	9/17/1998
Spill Record Last Update:	11/4/1998
Spiller Name:	Not reported
Spiller Company:	UNK
Spiller Address:	Not reported
Spiller City,St,Zip:	***UPDATE***, ZZ
Spiller County:	999
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	189589
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'DOWD"9/30/98 10:25 HRS. ARRIVED AT SITE. MET WITH HOMEOWNER AND TWO CHILDREN. DOING WORK IN BASEMENT, DUMPSTER IN FRONT IN THE STREET. SOMEONE LEFT AN OIL TANK BY DUMPSTER HER HUSBAND WENT TO PICK IT UP AND OIL CAME OUT ONTO STREET. HER HUSBAND PUT DOWN SAND IN STREET. DUMPSTER CO. TOOK TANK. CONTAINER INFO- DCA 483315 JLLANZO,351-1741.
Remarks:	annonymous caller states that during tank removal - tank was dropped and cracked - residue oil from tank spilled on ground andran out to street. caller stated no clean up was done

Material:

Site ID:	230023
Operable Unit ID:	1065015
Operable Unit:	01
Material ID:	318538
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:

(Continued) **S104619694**

HIST LTANKS:

Region of Spill:	2
Spill Number/Closed Date:	9807454 / 11/04/98
Spill Date:	09/17/1998
Spill Time:	14:35
Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Investigator:	O'DOWD
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	09/17/98
Reported to Department Time:	15:03
SWIS:	64
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	UNK
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	Not reported
Facility Extention:	Not reported
Spill Notifier:	Local Agency
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	09/17/98
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	11/04/98
Is Updated:	False

Tank:

Material:

Material Class Type:	Petroleum
Quantity Spilled:	0
Unkonwn Quantity Spilled:	True
Units:	Gallons
Quantity Recovered:	0

(Continued) **S104619694**

Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: 9/30/98 10:25 HRS. ARRIVED AT SITE. MET WITH HOMEOWNER AND TWO CHILDREN. DOING WORK IN BASEMENT, DUMPSTER IN FRONT IN THE STREET. SOMEONE LEFT AN OIL TANK BY DUMPSTER HER HUSBAND WENT TO PICK IT UP AND OIL CAME OUT ONTO STREET. HER HUSBAND PUT DOWN SAND IN STREET. DUMPSTER CO. TOOK TANK. CONTAINER INFO-DCA 483315 JLLANZO,351-1741.
Spill Cause: annonymous caller states that during tank removal - tank was dropped and cracked - residue oil from tank spilled on ground and ran out to street. caller stated no clean up was done

SPILLS:
Facility ID: 9807549
DER Facility ID: 189589
Facility Type: ER
Site ID: 230024
DEC Region: 2
Spill Date: 9/18/1998
Spill Number/Closed Date: 9807549 / 9/22/1998
Spill Cause: Human Error
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)
SWIS: 4301
Investigator: SIGONA
Referred To: Not reported
Reported to Dept: 9/21/1998
CID: 323
Water Affected: Not reported
Spill Source: Non Major Facility > 1,100 gal
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: 9/21/1998
Spill Record Last Update: 9/22/1998
Spiller Name: NICK JEROME
Spiller Company: 80 HARRISON STREET
Spiller Address: 80 HARRISON STREET
Spiller City,St,Zip: STATEN ISLAND, NY
Spiller Company: 001
Contact Name: NICK JEROME
Contact Phone: (718) 273-3142
DEC Memo: Not reported
Remarks: OIL RUNNING DOWN THE ROAD SINCE FRIDAY.

Material:
Site ID: 230024
Operable Unit ID: 1065124
Operable Unit: 01
Material ID: 318632

(Continued) **S104619694**

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:

O97 **7 PEARL STREET** **LTANKS** **S103238603**
WSW **7 PEARL STREET** **HIST LTANKS** **N/A**
1/4-1/2 **STATEN ISLAND, NY**
0.446 mi.
2356 ft. **Site 1 of 2 in cluster O**

Relative:
Higher

Actual:
136 ft.

LTANKS:

Site ID:	310352
Spill Number/Closed Date:	9510969 / 12/1/1995
Spill Date:	12/1/1995
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:	4301
Investigator:	KSTANG
Referred To:	Not reported
Reported to Dept:	12/1/1995
CID:	349
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	12/1/1995
Spill Record Last Update:	12/4/1995
Spiller Name:	ANTHONY DEVITO
Spiller Company:	Not reported
Spiller Address:	7 PEARL ST
Spiller City,St,Zip:	STATEN ISLAND, NY
Spiller County:	001
Spiller Contact:	ANTHONY DEVITO
Spiller Phone:	(718) 447-2490
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	250506
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TANG"
Remarks:	Not reported

7 PEARL STREET (Continued) **S103238603**

Material:

Site ID:	310352
Operable Unit ID:	1021519
Operable Unit:	01
Material ID:	358323
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

Tank Test:

HIST LTANKS:

Region of Spill:	2
Spill Number/Closed Date:	9510969 / 12/01/95
Spill Date:	12/01/1995
Spill Time:	10:45
Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported
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:	/ /
Cleanup Meets Standard:	False
Investigator:	TANG
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	12/01/95
Reported to Department Time:	11:20
SWIS:	64
Spiller Contact:	ANTHONY DEVITO
Spiller Phone:	(718) 447-2490
Spiller Extention:	Not reported
Spiller Name:	Not reported
Spiller Address:	7 PEARL ST
Spiller City,St,Zip:	STATEN ISLAND, NY
Spiller Cleanup Date:	/ /
Facility Contact:	ANTHONY DEVITO
Facility Phone:	(718) 447-2490
Facility Extention:	Not reported
Spill Notifier:	Other
PBS Number:	Not reported
Last Inspection:	/ /

7 PEARL STREET (Continued) **S103238603**

Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 12/01/95
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 12/04/95
Is Updated: False

Tank:

Material:
Material Class Type: Petroleum
Quantity Spilled: 1
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 1
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Spill Cause: Not reported

P98 **ROSSVILLE JAIL SITE** **HSWDS** **S108146269**
SW **60 HUDSON STREET** **N/A**
1/4-1/2 **STATEN ISLAND, NY 10309**
0.475 mi.
2506 ft. **Site 1 of 2 in cluster P**

Relative:
Higher

Actual:
23 ft.

HSWDS:
Facility ID: HS2039
Region: 2
Facility Status: None
Owner Type: Municipal
Owner: NYC Dept. of Corrections
Owner Address: 60 Hudson St.
Owner Phone: (212)266-1125
Operator Type: Municipal
Operator: Same
Operator: Same
Operator Phone: Unknown
EPA ID: NYD986899938
Registry: Not on NYS Registry of Inactive Haz Waste Disposal Sites
Registry Site ID: None
RCRA Permitted: Unknown
Site Code: Leaking tanks, drums, lagoons, other containers
Owner City State: NYC, NY 10013
Operator City State: Not reported
Quadrange: Unknown
Latitude: 40 33'17"N
Longitude: 74 13'35"W
Acres: 0.00
Operator Date: 1905

ROSSVILLE JAIL SITE (Continued) **S108146269**

Close Date:	1963
Completed:	PA
Active:	No
PCB's Disposed:	Yes
Pesticides Disposed:	No
Metals Disposed:	Yes
Asbestos Disposed:	No
Volatile Organic Compounds Disposed:	Yes
Semi Volatile Organic Compounds Disposed:	Yes
Analytical Info Exists for Air:	Not reported
Analytical Info Exists for Ground:	None
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Sediments:	Not reported
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Substance:	Not reported
Analytical Info Exists for Waste:	Not reported
Analytical Info Exists for Leachate:	Not reported
Analytical Info Exists for EP Toxicity:	Not reported
Analytical Info Exists for TCLP:	Not reported
Threat to Environment/Public Health:	Environmental/Public
Surface Water Contamination:	Unknown
Surface Water Body Class:	Unknown
Groundwater Contamination:	Unknown
Groundwater Classification:	Unknown
Drinking Water Contamination:	No
Drinking Water Supply is Active:	Unknown
Any Known Fish or Wildlife:	No
Hazardous Exposure:	Unknown
Site Has Controlled Acess:	Unknown
Ambient Air Contamination:	Unknown
Direct Contact:	Unknown
EPA Hazardous Ranking System Score:	Unknown
Inventory:	F
Nefrap:	Not reported
Mailing:	Not reported
Tax Map No:	Not reported
Qualify:	0
Next Action:	Not reported
Agencies:	Not reported
Air:	Not reported
Building:	Not reported
Site Desc:	Not reported
Drink:	Not reported
Eptox:	Not reported
Fish:	Not reported
Ground:	Not reported
Ground Desc:	Not reported
Hazardous Threat:	Not reported
Haz Threat Desc:	Not reported
Leachate:	Not reported
Preparer:	Not reported
Sediment:	Not reported
Soil:	Not reported
Surface:	Not reported
Status:	Not reported
Surface Soil:	Not reported
Surface:	Not reported

ROSSVILLE JAIL SITE (Continued) **S108146269**

TCLP: Not reported
Waste: Not reported

O99 **92 PEARL STREET** **LTANKS** **S101341254**
WSW **92 PEARL STREET** **HIST LTANKS** **N/A**
1/4-1/2 **STATEN ISLAND, NY**
0.479 mi.
2527 ft. **Site 2 of 2 in cluster O**

Relative:
Higher

Actual:
148 ft.

LTANKS:

Site ID:	249754
Spill Number/Closed Date:	9412370 / 2/28/2003
Spill Date:	12/15/1994
Spill Cause:	Tank Failure
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:	False
SWIS:	4301
Investigator:	TOMASELLO
Referred To:	Not reported
Reported to Dept:	12/15/1994
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:	1/30/1995
Spill Record Last Update:	2/28/2003
Spiller Name:	Not reported
Spiller Company:	GEORGE OLSON RES.
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:	204738
DEC Memo:	Not reported
Remarks:	NO SIGNS OF ANY AFFECTED AREA- ATTENTION CHRIS TOMASELLO

Material:

Site ID:	249754
Operable Unit ID:	1006026
Operable Unit:	01
Material ID:	374686
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	800
Units:	Gallons

92 PEARL STREET (Continued) **S101341254**

Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

HIST LTANKS:
Region of Spill: 2
Spill Number/Closed Date: 9412370 / Not Closed
Spill Date: 12/15/1994
Spill Time: 09:15
Spill Cause: Tank Failure
Resource Affectd: On Land
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Class: Not reported
Cleanup Ceased: / /
Cleanup Meets Standard: False
Investigator: TOMASELLO
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 12/15/94
Reported to Department Time: 10:14
SWIS: 64
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: GEORGE OLSON RES.
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: Not reported
Facility Extention: Not reported
Spill Notifier: Responsible Party
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 01/30/95
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: / /
Is Updated: False

92 PEARL STREET (Continued) **S101341254**

Tank:

Material:

Material Class Type:	Petroleum
Quantity Spilled:	800
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	#2 FUEL OIL
Class Type:	#2 FUEL OIL
Times Material Entry In File:	24464
CAS Number:	Not reported
Last Date:	19941207
DEC Remarks:	Not reported
Spill Cause:	NO SIGNS OF ANY AFFECTED AREA- ATTENTION CHRIS TOMASELLO

P100 **88 GORDON AVENUE** **LTANKS** **S100879043**
SW **88 GORDON AVENUE** **HIST LTANKS** **N/A**
1/4-1/2 **STATEN ISLAND, NY**
0.486 mi.
2565 ft. **Site 2 of 2 in cluster P**

Relative:
Higher

Actual:
28 ft.

LTANKS:

Site ID:	320370
Spill Number/Closed Date:	9311963 / 3/15/2006
Spill Date:	1/11/1994
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:	4301
Investigator:	DATROMP
Referred To:	TROMP
Reported to Dept:	1/11/1994
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:	1/14/1994
Spill Record Last Update:	3/15/2006
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:	258117
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "M TIBBE"Transferred to Central Office for review. 3/15/06 - Spill

88 GORDON AVENUE (Continued) **S100879043**

Closed.
Remarks: HOLE IN 275 TANK - WHALECO NOTIFIED - CLEAN UP CREW ENROUTE.

Material:
Site ID: 320370
Operable Unit ID: 993975
Operable Unit: 01
Material ID: 390972
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:

HIST LTANKS:
Region of Spill: 2
Spill Number/Closed Date: 9311963 / Not Closed
Spill Date: 01/11/1994
Spill Time: 04:18
Spill Cause: Tank Failure
Resource Affectd: On Land
Water Affected: Not reported
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: / /
Cleanup Meets Standard: False
Investigator: TIBBE
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 01/11/94
Reported to Department Time: 05:11
SWIS: 64
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: SAME
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: Not reported
Facility Extention: Not reported

88 GORDON AVENUE (Continued) **S100879043**

Spill Notifier: Fire Department
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 01/14/94
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: / /
Is Updated: False

Tank:

Material:
Material Class Type: Petroleum
Quantity Spilled: -50
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Spill Cause: HOLE IN 275 TANK - WHALECO NOTIFIED - CLEAN UP CREW ENROUTE.

101
NNW
1/4-1/2
0.490 mi.
2587 ft.

180 VICTORY BLVD **LTANKS** **S106703096**
180 VICTORY BLVD **HIST LTANKS** **N/A**
STATEN ISLAND, NY **NY Spills**

Relative:
Higher

Actual:
96 ft.

LTANKS:
Site ID: 240598
Spill Number/Closed Date: 8607073 / 2/19/1987
Spill Date: 2/19/1987
Spill Cause: Tank Failure
Spill Source: Gasoline Station
Spill Class: Not reported
Cleanup Ceased: 2/19/1987
Cleanup Meets Standard: True
SWIS: 4301
Investigator: TOMASELLO
Referred To: Not reported
Reported to Dept: 2/19/1987
CID: Not reported
Water Affected: NONE
Spill Notifier: Fire Department
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: True
Remediation Phase: 0
Date Entered In Computer: 2/23/1987

180 VICTORY BLVD (Continued) **S106703096**

Spill Record Last Update:	7/19/2004
Spiller Name:	Not reported
Spiller Company:	WEST WIND PETROLEUM INC.
Spiller Address:	8 CHATHAM SQ.
Spiller City,St,Zip:	NEW YORK, NY 10038
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	182346
DEC Memo:	Not reported
Remarks:	RESIDENTIAL AREAS BEING MONITORED FOR FUMES. DEC RESPONDING. CALLED MPC TANK PUMPED FREE OF PRODUCT.

Material:

Site ID:	240598
Operable Unit ID:	903812
Operable Unit:	01
Material ID:	472607
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	500
Units:	Gallons
Recovered:	350
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

HIST LTANKS:

Region of Spill:	2
Spill Number/Closed Date:	8607073 / 02/19/87
Spill Date:	02/19/1987
Spill Time:	15:15
Spill Cause:	Tank Failure
Resource Affectd:	In Sewer
Water Affected:	NONE
Spill Source:	Gas Station
Spill Class:	Not reported
Cleanup Ceased:	02/19/87
Cleanup Meets Standard:	True
Investigator:	TOMASELLO
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	02/19/87
Reported to Department Time:	16:35

180 VICTORY BLVD (Continued) **S106703096**

SWIS: 64
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: WEST WIND PETROLEUM INC.
Spiller Address: 8 CHATHAM SQ.
Spiller City,St,Zip: NEW YORK, NY 10038
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: (212) 273-3380
Facility Extention: Not reported
Spill Notifier: Fire Department
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 02/23/87
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 09/25/95
Is Updated: False

Tank:

Material:
Material Class Type: Petroleum
Quantity Spilled: 500
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 350
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 09/25/95: ASSIGNED TO CHRIS FOR TRACKINMG PURPOSES.
Spill Cause: RESIDENTIAL AREAS BEING MONITORED FOR FUMES. DEC RESPONDING. CALLED MPC TANK PUMPED FREE OF PRODUCT.

SPILLS:
Facility ID: 9713781
DER Facility ID: 182346
Facility Type: ER
Site ID: 220454
DEC Region: 2
Spill Date: 3/12/1998
Spill Number/Closed Date: 9713781 / 11/9/1998
Spill Cause: Housekeeping
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 4301
Investigator: SIGONA
Referred To: Not reported

180 VICTORY BLVD (Continued) **S106703096**

Reported to Dept:	3/12/1998
CID:	281
Water Affected:	Not reported
Spill Source:	Gasoline Station
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:	3/12/1998
Spill Record Last Update:	11/9/1998
Spiller Name:	ROBERT FRANK
Spiller Company:	VICTORY BLVD. MINI-MARKET
Spiller Address:	180 VICTORY BLVD.
Spiller City,St,Zip:	STATEN ISLAND, NY 10301-
Spiller Company:	001
Contact Name:	BOB FRANK
Contact Phone:	(718) 351-2369
DEC Memo:	Not reported
Remarks:	CALLER WAS HIRED BY PROPERTY OWNER TO REMOVE TANKS. LOCATION ISA FORMER GAS STATION AND NOW OPERATES AS A STORE. PROPERTYWAS PURCHASED THROUGH FORECLOSURE UNKNOWN PREVIOUS OWNER. TANK VAULTS INTACT APPEARS TO BE A TANK FAILURE.

Material:

Site ID:	220454
Operable Unit ID:	1059735
Operable Unit:	01
Material ID:	324774
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:

102
NNW
1/4-1/2
0.497 mi.
2626 ft.

Relative:
Higher

Actual:
95 ft.

GULF GASOLINE **HIST LTANKS S104278547**
149 VICTORY BLVD **NY Spills N/A**
STATEN ISLAND, NY

HIST LTANKS:

Region of Spill:	2
Spill Number/Closed Date:	9909102 / Not Closed
Spill Date:	10/27/1999
Spill Time:	09:22
Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported

GULF GASOLINE (Continued) **S104278547**

Spill Source: Gas Station
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: / /
Cleanup Meets Standard: False
Investigator: TIPPLE
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 10/27/99
Reported to Department Time: 09:22
SWIS: 64
Spiller Contact: CALLER
Spiller Phone: ( ) -
Spiller Extention: Not reported
Spiller Name: GULF GASOLINE
Spiller Address: 149 VICTORY BLVD
Spiller City,St,Zip: STATEN ISLAND, NY
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: ( ) -
Facility Extention: Not reported
Spill Notifier: Responsible Party
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 10/27/99
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 10/17/00
Is Updated: False

Tank:

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Spill Cause: CALLER DOINF SITE WORK ON OLD STATION FOUND CONTAMINATED SOIL.

GULF GASOLINE (Continued) **S104278547**

SPILLS:

Facility ID:	9909102
DER Facility ID:	225072
Facility Type:	ER
Site ID:	276852
DEC Region:	2
Spill Date:	10/27/1999
Spill Number/Closed Date:	9909102 / Not Closed
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	4301
Investigator:	VXBREVDO
Referred To:	NEED TO REVIEW 12/12/2008 INV REPORT
Reported to Dept:	10/27/1999
CID:	205
Water Affected:	Not reported
Spill Source:	Gasoline Station
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	1
Date Entered In Computer:	10/27/1999
Spill Record Last Update:	12/16/2011
Spiller Name:	AZHAR CHAUDHRY
Spiller Company:	GULF
Spiller Address:	149 VICTORY BLVD
Spiller City,St,Zip:	STATEN ISLAND, NY -
Spiller Company:	001
Contact Name:	CALLER
Contact Phone:	Not reported
DEC Memo:	11/1/99 Received Site Investigation Report prepared by Cifron Environmental Svcs for Petroleum Technology. Eight 550gal USTs were excavated from 9/28/99-9/30/99. Tanks were each encased in concrete. Tanks appeared to be in good condition. 350 tons of contaminated soil was excavated to approx 11'bgs. Five post-ex samples taken (2' into native soils) and analyzed by 8260 plus MTBE. All returned above standard. Contaminated soils remain on site. Report recommends installation of three MWs.11/2/99at 10:40am LM on answering machine for francis onaga [private machine W/ male voice on tape]12/06/03 Transferred from Tipple to Foley.06/20/06: Re-assigned from Foley to Yau. (Yau)07/06/06: Prepared and sent a letter to the property owner requiring further delineation of soil and groundwater. A site investigation report is mandated by 08/20/06. (Yau)07/18/06: Letter was undeliverable to the address at 149 Victory Blvd., Staten Island, NY with attention to Haji N. chaudhry. (Yau)08/15/06: Called Chaudhry Cooperation at (718)727-8121 to speak to Haji. A.J., who works at the station now, said Haji no longer works here. I asked for Haji's mailing address. The address A.J. told me is the same as the one listed in the PBS registeration. I asked for Haji's fax number but A.J. doesn't know. A.J. gave me his fax number and I will fax the letter to him. A.J. will then try to get it to Haji. (Yau)10/16/06 Re-assigned from Yau to Chanda (Chanda)11/08/06: Kartik Chanda of DEC sent a letter to the property owner, requiring that further

GULF GASOLINE (Continued) **S104278547**

delineation of soil and groundwater be submitted to DEC for review. Therefore, a Site Investigation report is mandated by 12/15/06.12/21/06: Chanda called Chaudhry Corporation at (718)727-8121 and left a message regarding the site status and upto date report.12/26/06: Chanda sent a reminder letter to the property owner to informe him, this is the second and final chance for you to submit a site Investigation Report by February 26,2007.1/04/07: Letter was undeliverable to the address at 149 Victory Blvd.,Staten Island, NY with attention to Azhar M. Chaudhry. 1/09/07: Chanda resent the previous letter to the address;1261 Bronx River Drive Ave.,Bronx, NY 10472 with attention Azhar M. Chaudhry.This address collected from PBS resistration report.2/9/07: Leter was undeliverable to the address of 1261 Bronx River Ave., Bronx, NY 10472 with attention Azhar M. Chaudhry. 2/9/07: Chanda resent that letter to Jamil Properties Inc., 163 Ocean Avenue, Staten Island, NY 10305. This address collected from Property Shark Reports.3/12/07: Later was undeliverable to the address of Jamil Properties Inc., 163 Ocean Avenue, Staten Island, NY 10305.3/27/07: Based on Property Shark address. Kartik Chanda of DEC sent a letter to the Jamil Properties Inc., 151 Victory Blvd., Staten Island, NY 10301.5/2/07:Chanda received a letter from Bement Gas Corporation regarding this spill case by fax. The letter stated that presently Bement Gas Corp., is operating the gas station at 149 Victory blvd., Staten Island, NY. The Bement Gas Corp., is in the process of obtaining detail pertaining to the spill from the operator during 1999. Bement requested to DEC for time extension of submission of documentation for six months.5/2/07:Kartik Chanda of DEC spoke with T.S. Khela (Ph. 718-420-5100), manager, Bement Gas Corp., regarding this spill and present status of the site. He said that Azhar Chaudhary is the responsible person for this spill. He requested to send another letter attention Azhar Chaudhary, c/o: Bement Gas Corp. and give some time to submit the documentation related this spill case.5/2/07: Chanda sent a letter to Azhar Chaudhary (RP)and Jamil Properties Inc.(Property Owner), requiring that the following information be submitted to DEC for review by July 2, 2007.)1. Tank closure assessment report.2. Locations of tank and/or line test failure.3. Subsurface investigation report, including current and historical soil and groundwater analysis.4. Surrounding property sketch: A surrounding property sketch including property layout and usage must be submitted to NYSDEC. North arrow and scale must also be included on the site plan.7/2/07: Chanda received a letter with attached Tank removal affidavit, Location of (8)550-gallon USTs before removal, Site Plan and Invoice of contaminated soil disposal from T.S. Khela, Bement Gas Corp. on 7/2/07.The address of the Landlord:Jamil Properties, Inc.Azar M. Chaudary151 Victory Blvd.Staten Island, NY 103017/3/07: Chanda has reviewed all documents and the site investigation report prepared by Cifron Environmental Services, Inc., dated October 1999.The soil analytical results from soil borings SB-1 through SB-5 showed elevated levels of BTEX and MTBE. The levels of BTEX concentrations ranged from 10,480 ppb to 285,000 ppb. The soil samples exceed NYSDEC standards for Recommended Soil Cleanup Objective for gasoline contaminated soils.
Post-excavation soil sample results showed that all contaminated soil has not been excavated and removed from the site.Based on the above investigation report, the Department requires the following:1. Delineation of Soil and Groundwater Contamination both on-site and off-site.2. Surrounding Property Sketch.7/5/07: Chanda sent a letter

GULF GASOLINE (Continued) **S104278547**

to RP (Jamil Properties) and his Manager(T. S. Khela), requiring that a subsurface site investigation work plan be submitted to DEC for approval by July 25, 2007.8/6/07:Chanda called T.S.Khela and spoke with him regarding the investigation work plan. He told that he has a consultant (Mr. Rice, phone: 973-903-5820, Fax: 973-728-1918). The consultant will be contact to DEC regarding the schedule to submit an investigation work plan.Chanda spoke with Mr. Rice. Rice described his limitation, he requested that he need time extension to submit the work plan. The time extension letter will be submitted as soon as possible.9/7/07: Chanda received a letter from R & N Petroleum, Inc. (Ricky Fitzgerald) regarding the time extension to submit a site investigation work plan. Based on the reasons presented, the Department hereby grants the extension to October 14, 2007 to submit a subsurface investigation work plan to DEC for approval.11/2/07: Chanda spoke with T.S. Khela regarding the investigation report deadline at this site. He stated that the report is done, and it will be sent next Monday(November 5, 2007).11/15/07: Chanda called T.S. Khela(Manager) and Ricky Fitzgerald (R & N Petroleum) left message to call back.11/28/07: Chanda received a Remedial Investigation Report prepared by R&N Petroleum, Inc, dated October 25, 2007.12/11/07: Chanda has reviewed the Remedial Investigation Report and has the following comments:1. On 08/21/07, the investigation consisted of a series of (9) soil borings and (4) soil samples. GW was not encountered between 0' to 26' bgs. PID readings ranging from 0 to 418 ppm2. No GW samples could be obtained because of refusal on the geo-probe due to heavy shale layers at the site.3. The sample were analyzed via USEPA SW846 8260 for VOC+10, MTBE, and 8270 Semi-Volatile Organic Compound.12/12/07:Chanda did not find any VOCs data inside this report. Chanda called Ricky Fitzgerald (973-903-5820) regarding the VOCS analytical data. He stated that he is outside his office, but he will be call back within this week (12/12 to 12/14).1/23/08: Chanda received a letter from R & N Petroleum, Inc. (Ricky Fitzgerald) regarding a 90 day time extension to submit a site investigation report. Based on the reasons presented, the Department hereby grants one month extension to February 25, 2008 to submit a subsurface investigation report to DEC for review.1/30/08: Chanda received an extension request to submit the investigation report to March 31, 2008. The deadline extended to 3/31/08.3/14/08: Chanda received a phone call from EG & R Environmental Services (Mr.Kal Gill, Ph.732-690-0659). He stated that the EG & R Environmental retained this site to investigate the sub-surface at the site. He has a plan to send the work plan to DEC for review and approval.3/18/08: Chanda received a brief proposed work plan prepared by EG & R Environmental Services dated March 16, 2008. (see eDocs)3/26/08: Chanda has reviewed the investigation work plan and has the following comments:* The proposed boring location did not cover the plume area and center of the subject property.* This work plan is not complied the previous investigation results, dated October 1999.Chanda discussed with the consultant for the above comments and request to submit a revised work plan with new soil boring location.4/17/08: Chanda received the following email from Kal Gill (Consultant):"Today at 4:20 pm, EG&R recived a digital copy of report prepared by Site Investigation Report Prepared by Cifron Environmental in Oct 1999. I need about a week to send you revised sketch with new soil boring locations. This week is needed to review the report and arrange a site visit. I have also tentatively scheduled a field work date for April 29th. If you have any questions

GULF GASOLINE (Continued) **S104278547**

or concerns, please do not hesistate to call me."The Investigation Work Plan will be submitted to DEC by 4/25/08 for review and approval.5/5/08: Chanda received a Revised Investigation workplan from EG&R.5/12/08: Chanda has reviewed the investigation work plan (revised)dated May2, 2008. The Work Plan proposes five (5) soil boring locations around the UST area. DEC conditionally approved the work plan. The following conditions are:1. Three (3) soil boring sampling points should be added to the location around the Dispenser Island, as indicated on the attached site plan.2. Soil samples should be taken at each boring from a split spoon at a depth of every 5 feet down to 3-5 feet below the tank bottom. Additional samples should be collected at 10 feet interval at depth 10 feet below the tank bottom, to groundwater or bedrock, or 30 feet invert from tank bottom, whichever comes first. If groundwater is encountered, a minimum of one groundwater sample should be taken from each boring. The soil will be sampled continuously with a Photo Ionization Detector (PID). The deepest dry soil sample and the sample with the highest PID reading in each boring/well will be sent for EPA Method 8260 VOC/8270 SVOC analyses and the results will be sent to the Department. If contaminated soil extends to the water table, a monitoring well will be installed. 5/13/08: Chanda sent a letter to RP (Mr. Khela) and his consultant(Kulver Gill), requiring that an investigation summary report must be submitted to DEC by 6/25/08 for review and approval.8/18/08: Chanda received a summarized analytical results of soil and groundwater sample for this spill site. (see eDocs). The Subsurface investigation report will be submitted by 11/15/08.

Remarks: CALLER DOINF SITE WORK ON OLD STATION FOUND CONTAMINATED SOIL.

Material:

Site ID:	276852
Operable Unit ID:	1087797
Operable Unit:	01
Material ID:	298197
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:

Facility ID:	0206669
DER Facility ID:	225072
Facility Type:	ER
Site ID:	276851
DEC Region:	2
Spill Date:	1/2/2002
Spill Number/Closed Date:	0206669 / 5/12/2003
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	4301

GULF GASOLINE (Continued) **S104278547**

Investigator:	JXZHAO
Referred To:	Not reported
Reported to Dept:	9/27/2002
CID:	281
Water Affected:	Not reported
Spill Source:	Gasoline Station
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	0
Date Entered In Computer:	9/27/2002
Spill Record Last Update:	5/12/2003
Spiller Name:	Not reported
Spiller Company:	SAME
Spiller Address:	Not reported
Spiller City,St,Zip:	NN
Spiller Company:	999
Contact Name:	CARL SULFARO
Contact Phone:	(718) 236-6369
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ZHAO/DEMEO"5/12/2003 - Spill number closed since no evidence of leakage.
Remarks:	CALLER RECIEVED NOTIFICATION FROM THE EPA AS A RESULT OF THEIR INSPECTION THAT THE AUTOMATIC TANK GAUGING SYSTEM FAILED AT ABOVE LOCATION. SYSTEM WAS REPAIRED AND HAVE SINCE PASSED INSPECTION.

Material:

Site ID:	276851
Operable Unit ID:	859337
Operable Unit:	01
Material ID:	517272
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:

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

103
West
1/4-1/2
0.498 mi.
2627 ft.

OUR LADY OF GOOD COUNSEL SCHOOL
42 AUSTIN PLACE
STATEN ISLAND, NY 10304

LTANKS
UST
HIST UST

U003740210
N/A

Relative:
Higher

Actual:
238 ft.

LTANKS:

Site ID:	343180
Spill Number/Closed Date:	0500264 / 2/17/2006
Spill Date:	4/6/2005
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:	4301
Investigator:	rmpiper
Referred To:	Not reported
Reported to Dept:	4/6/2005
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:	4/6/2005
Spill Record Last Update:	2/17/2006
Spiller Name:	JOE
Spiller Company:	OUR LADY OF GOOD COUNCI
Spiller Address:	42 AUSTIN PLACE
Spiller City,St,Zip:	STATEN ISLAND, NY
Spiller County:	999
Spiller Contact:	JOE
Spiller Phone:	(718) 447-7260
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	26330
DEC Memo:	ttf ltr sent to:Rev Stephen BakerOur Lady of Good Counsel10 Austin PlaceStaten Island, NY 10304 PBS #2-6045602/17/06- DEC Piper reveiwed receipts from PTC. Tank passed at time of test. Lines Failed. Repairs made to lines. Tank and system Pass. Closed. E-Docs.
Remarks:	ester brook ez3 locator plus was the test method.

Material:

Site ID:	343180
Operable Unit ID:	1101856
Operable Unit:	01
Material ID:	582104
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

OUR LADY OF GOOD COUNSEL SCHOOL (Continued) **U003740210**

Tank Test:

Site ID:	343180
Spill Tank Test:	1548762
Tank Number:	001
Tank Size:	3000
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Watchdog
Last Modified:	4/6/2005
Test Method:	Unknown

UST:

Id/Status:	2-604560 / Active
Region:	STATE
DEC Region:	2
Program Type:	PBS
Expiration Date:	2010/06/09
UTM X:	577208.40304999996
UTM Y:	4498295.9741200004

Affiliation Records:

Site Id:	26431
Affiliation Type:	Owner
Company Name:	OUR LADY OF GOOD COUNSEL CHURCH
Contact Type:	JOSEPH CACCAVO
Contact Name:	PLANT MANAGER
Address1:	10 AUSTON PLACE
Address2:	Not reported
City:	STATEN ISLAND
State:	NY
Zip Code:	10304
Country Code:	001
Phone:	(718) 447-1503
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	5/2/2005

Site Id:	26431
Affiliation Type:	Mail Contact
Company Name:	OUR LADY OF GOOD COUNSEL
Contact Type:	Not reported
Contact Name:	JOE CACCAVO
Address1:	10 AUSTIN PLACE
Address2:	Not reported
City:	STATEN ISLAND
State:	NY
Zip Code:	10304
Country Code:	001
Phone:	(718) 447-1503
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	JMKRIMGO

OUR LADY OF GOOD COUNSEL SCHOOL (Continued) **U003740210**

Date Last Modified: 1/31/2006

Site Id: 26431
Affiliation Type: On-Site Operator
Company Name: OUR LADY OF GOOD COUNSEL SCHOOL
Contact Type: Not reported
Contact Name: JOE CACCAVO
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 447-1503
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: EXROSSAN
Date Last Modified: 11/17/2005

Site Id: 26431
Affiliation Type: Emergency Contact
Company Name: OUR LADY OF GOOD COUNSEL CHURCH
Contact Type: Not reported
Contact Name: FR. FRANK SIROLLI
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (718) 447-1504
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: EXROSSAN
Date Last Modified: 11/17/2005

Tank Info:
Site ID: 26431

Tank Number: 001
Tank ID: 58178
Tank Status: In Service
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
C03 - Pipe Location - Aboveground/Underground Combination
F01 - Pipe External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
I05 - Overfill - Vent Whistle
J00 - Dispenser - None
B01 - Tank External Protection - Painted/Asphalt Coating

OUR LADY OF GOOD COUNSEL SCHOOL (Continued) **U003740210**

Install Date: Not reported
Capacity Gallons: 5000
Tightness Test Method: 21
Next Test Date: 02/02/2015
Date Tank Closed: Not reported
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: 02/02/2010
Registered: True
Modified By: BKFALVEY
Last Modified: 05/18/2010

Site ID: 26431

Tank Number: 002
Tank ID: 58313
Tank Status: In Service
Tank Type: Steel/carbon steel
Pipe Model: Not reported

Equipment Records:
G00 - Tank Secondary Containment - None
I05 - Overfill - Vent Whistle
J00 - Dispenser - None
B01 - Tank External Protection - Painted/Asphalt Coating
C03 - Pipe Location - Aboveground/Underground Combination
F01 - Pipe External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
Install Date: Not reported
Capacity Gallons: 2000
Tightness Test Method: 21
Next Test Date: 02/02/2015
Date Tank Closed: Not reported
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: 02/02/2010
Registered: True
Modified By: BKFALVEY
Last Modified: 03/02/2010

HIST UST:
PBS Number: 2-604560
SPDES Number: Not reported
Emergency Contact: JOSEPH CACCAVO
Emergency Telephone: (718) 447-1503
Operator: PAROCHIAL ELEMENTARY SCHOOL
Operator Telephone: (718) 447-7260
Owner Name: OUR LADY OF GOOD COUNSEL CHURCH
Owner Address: 10 AUSTON PLACE
Owner City,St,Zip: STATEN ISLAND, NY 10304
Owner Telephone: (718) 447-1503
Owner Type: Corporate/Commercial
Owner Subtype: Not reported
Mailing Name: OUR LADY OF GOOD COUNSEL CHURCH
Mailing Address: 10 AUSTIN PLACE

OUR LADY OF GOOD COUNSEL SCHOOL (Continued) **U003740210**

Mailing Address 2:	Not reported
Mailing City,St,Zip:	STATEN ISLAND, NY 10304
Mailing Contact:	REV. STEPHEN BAKER, OSA
Mailing Telephone:	(718) 447-1503
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:	6401
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:	09/22/2000
Expiration Date:	06/09/2005
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	5000
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:	64
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:	Not reported
Pipe External:	Painted/Asphalt Coating
Second Containment:	None
Leak Detection:	Not reported
Overfill Prot:	Vent Whistle
Dispenser:	Not reported
Date Tested:	07/18/2000
Next Test Date:	07/18/2005
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	21
Deleted:	False
Updated:	True

OUR LADY OF GOOD COUNSEL SCHOOL (Continued) **U003740210**

Lat/long: Not reported

Tank Id: 002
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: None
Tank External: Painted/Asphalt Coating
Pipe Location: Aboveground/Underground Combination
Pipe Type: STEEL/IRON
Pipe Internal: Not reported
Pipe External: Painted/Asphalt Coating
Second Containment: None
Leak Detection: Not reported
Overfill Prot: Vent Whistle
Dispenser: Not reported
Date Tested: 07/18/2000
Next Test Date: 07/18/2005
Missing Data for Tank: Minor Data Missing
Date Closed: Not reported
Test Method: 21
Deleted: False
Updated: True
Lat/long: Not reported

Q104 **BROOKLYN BOROUGH GAS WORKS (CLIFTON MGP)** **EDR MGP** **1008408044**
SSE **25 AND 40 WILLOW AVE** **N/A**
1/2-1 **STATEN ISLAND, NY 10304**
0.786 mi.
4149 ft. **Site 1 of 2 in cluster Q**

Relative:
Higher

Actual:
16 ft.

Manufactured Gas Plants:
40 WILLOW AVE IS APPROXIMATELY ONE ACRE IN AREA AND IS LOCATED AT THE SOUTHWEST CORNER OF THE INTERSECTION OF BAY STREET AND WILLOW AVENUE. THE REMAINDER OF THE FORMER CLIFTON MGPSITE (25 WILLOW AVE) IS TO THE NORTHWEST, ACROSS WILLOW AVE.

Q105 **K - CLIFTON MGP - STATEN ISLAND** **SHWS** **S108061190**
SSE **25 & 40 WILLOW AVE** **N/A**
1/2-1 **STATEN ISLAND, NY 10305**
0.818 mi.
4320 ft. **Site 2 of 2 in cluster Q**

Relative:
Lower

Actual:
13 ft.

SHWS:
Program: HW
Site Code: 55939
Classification: ACTIVE
Region: 2
Acres: 4.520
HW Code: 243023
Record Add: 11/18/1999
Record Upd: 06/14/2012
Updated By: GWCROSS

K - CLIFTON MGP - STATEN ISLAND (Continued) **S108061190**

Site Description: Location: The Former Clifton MGP site is located in an urban area at the intersection of Bay Street and Willow Avenue in the Clifton section of Staten Island, Richmond County, New York. The site is separated into two operable units totalling 4.51 acres.Site Features: The site features an unoccupied one-story commercial building along Bay Street and a small one-story brick building used as a natural gas regulatiing station. The rest of the site is mostly paved and has been used for vehicle parking in the past.Current Zoning Use: The site is zoned for industrial use, surrounded by residential and commercial properties and the railroad embankment of the Staten Island Railway.Historical Use: In 1850 a manufactured gas plant was constructed on the site. It operated using the traditional coal carbonization process, heating coal in retorts or beehive ovens, until 1884 when a new plant was built to use the carbureted water gas process. This plant operated until 1959 when the plant was demolished. Some time between 1959 and 1977, the large commercial building was built as the Brooklyn Union Service Center, and the small building was built as a gas regulator station. Operable Units: The site was divided into two operable units. An operable unit represents a portion of a remedial program for a site that for technical or administrative reasons can be addressed separately to investigate, eliminate or mitigate a release, threat of release or exposure pathway resulting from the site contamination.Operable unit 1 (OU-1) is a 1-acre lot comprising 40 Willow Avenue parcel and is the location of a former gas holder. Current land use is as an active gas regulating station.Operable Unit 2 (OU-2) is a 3.5-acre parcel bounded to the northeast by Bay Street; to the south by Willow Avenue, and to the northwest by a wooded embankment and an associated active railroad right-of-way (ROW). The OU-2 parcel was the location of the former gas manufacturing plant. Site Geology and Hydrogeology: The site is believed to be underlain by highy metamorphosed Manhattan Schist, on top of which is the deposits of the Harbor Hill Terminal Moraine, consisting of unsorted sand, gravel, cobbles and boulders within a clayey and silty matrix, with some occurrences of stratified sand and gravel. The water table is within a few feet of the surface. Groundwater flows generally to the east toward New York Harbor 500-600 feet away.

Env Problem: The primary contaminants of concern are BTEX and PAHs compounds in soil and groundwater resulting from the coal tar contamination associated with operation of the former MGP. Tar has spread vertically to depths of roughly 120-130 feet beneath OU1, and to a lesser extent from OU-2. Lateral tar movement has also been noted at OU-1, with a thin seam of tar present beneath 8 adjacent homes on Lyndhurst Avenue. This seam is located at depth, with clean groundwater above it, and has been found to pose no risk to the homes. Tar is also located at depth off site to the northeast of the site between Bay Street and Edgewater Street. BTEX and PAHs compounds detected at the site are known to exceed standards, criteria and guidance.An IRM to remove lead contaminated soil from residential backyards was completed; however, some areas were not included due to physical access issues.No known special resources are impacted by site contamination.

Health Problem: Contact with contaminants in soil is unlikely since the site is fenced and/or paved. Exposure to site-related contaminants in drinking water is not expected because the area is served by a public water supply. Exposure to contaminated shallow groundwater on-site is possible during construction activities. Soil vapor and groundwater

K - CLIFTON MGP - STATEN ISLAND (Continued) **S108061190**

	are being monitored during remedial activities at 40 Willow Avenue to assess and address any human exposures that may occur.
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	00:00:00:0 / 00:00:00:0
Dell:	False
Record Add:	11/18/1999 12:00:00 PM
Record Upd:	2/7/2012 11:41:00 AM
Updated By:	RHDANA
Own Op:	Owner
Sub Type:	NNN
Owner Name:	Andrew Prophete
Owner Company:	National Grid
Owner Address:	175 East Old Country Road
Owner Addr2:	Not reported
Owner City,St,Zip:	Hicksville, NY 11801
Owner Country:	United States of America
HW Code:	243023
Waste Type:	COAL TAR
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	243023
Waste Type:	COAL TAR
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	243023
Waste Type:	COAL TAR
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	243023
Waste Type:	COAL TAR
Waste Quantity:	UNKNOWN
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

106
SSE
1/2-1
0.841 mi.
4441 ft.

NEW YORK AND RICHMOND GAS CO
WILLOW AND BAY AVE
STATEN ISLAND, NY 10304

EDR MGP **1008408045**
N/A

Relative:
Higher

Actual:
16 ft.

Manufactured Gas Plants:
No additional information available

Count: 20 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
STATEN ISLAND	1000483440	BARGE 210 AND BERMAN NATHAN	NO FIXED ADDRESS	10301	CERCLIS,FINDS,PRP
STATEN ISLAND	1004761601	NYSDOT REG 2 FIELD OFFICE	RTE 440N		FINDS,MANIFEST,RCRA-NLR
STATEN ISLAND	1007205637	BELL ATLANTIC-NY	BAY/CONGRESS STS	00000	RCRA-NLR
STATEN ISLAND	1007206388	CONSOLIDATED EDISON	RT 140 & VICTORY BLVD		RCRA-NLR,MANIFEST
STATEN ISLAND	1007208069	CONSOLIDATED EDISON	MH9011 RICHMOND TERR & BAY ST		RCRA-NLR,MANIFEST
STATEN ISLAND	1007252091	BELL ATLANTIC-NY	BAY/CONGRESS STS		FINDS,MANIFEST
STATEN ISLAND	1007797745	NASER PROPERTY - BLOCK 2892 - LOT	325 & 327 HANOVER AVENUE	10304	FINDS
STATEN ISLAND	1008195717	CONSOLIDATED EDISON	RICHMOND TERR & VAN ST MH82	10301	RCRA-NLR,MANIFEST
STATEN ISLAND	1009234567	NYSDEC	CLAY PIT POND STATE PARK		MANIFEST
STATEN ISLAND	1009234701	L & L PAINTINT	OUTERBRIDGE CROSSING & RT 440		MANIFEST
STATEN ISLAND	1009234966	COASTAL PIPELINE @ PORT IVORY	RICHMOND TER & KILL VAN KULL		MANIFEST
STATEN ISLAND	1009241593	CONSOLIDATED EDISON	NEW LANE BAY STREET MH0825	10301	MANIFEST
STATEN ISLAND	1014919790	MTA NYCT - TOMPKINSVILLE STATION -	BAY ST & VICTORY BLVD	10301	RCRA-SQG
STATEN ISLAND	1015731682	BROOKFIELD AVENUE LANDFILL	ARTHUR KILL ROAD	10301	CERCLIS,RCRA-NLR
STATEN ISLAND	S101341104	KILL VAN KULL	KILL VAN KULL		SPILLS,LTANKS,HIST LTANKS,HIST SPILLS
STATEN ISLAND	S102141169	LOWER NY BAY	LOWER NEW YORK BAY		SPILLS,HIST SPILLS
STATEN ISLAND	S102141232	NEWARK BAY/WEST BAYONNE	NEWARK BAY/WEST BAYONNE		SPILLS,HIST SPILLS
STATEN ISLAND	S102141257	RARITAN BAY/BUOY MARK #14	RARITAN BAY/BUOY MARK #14		SPILLS,HIST SPILLS
STATEN ISLAND	S102143451	RT 440	ROUTE 440		SPILLS,HIST SPILLS
STATEN ISLAND	S106384661	OUTERBRIDEG CROSSING	ROUTE 440 NORTH		SPILLS

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: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
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: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
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: 02/04/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 04/05/2013
Next Scheduled EDR Contact: 06/10/2013
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: 07/31/2012
Date Data Arrived at EDR: 10/09/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/11/2013
Next Scheduled EDR Contact: 04/22/2013
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: 02/05/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 04/05/2013
Next Scheduled EDR Contact: 03/11/2013
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: 02/12/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 6

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/03/2013
Next Scheduled EDR Contact: 07/15/2013
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: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 04/03/2013
Next Scheduled EDR Contact: 07/15/2013
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: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 04/03/2013
Next Scheduled EDR Contact: 07/15/2013
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: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 04/03/2013
Next Scheduled EDR Contact: 07/15/2013
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: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 04/03/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/19/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
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: 12/19/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
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: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
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: 12/31/2012
Date Data Arrived at EDR: 01/17/2013
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 29

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 04/02/2013
Next Scheduled EDR Contact: 07/15/2013
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: 02/19/2013
Date Data Arrived at EDR: 02/20/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 06/03/2013
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: 01/01/2013
Date Data Arrived at EDR: 02/20/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 23

Source: Department of Environmenal Conservation
Telephone: 518-402-9814
Last EDR Contact: 02/20/2013
Next Scheduled EDR Contact: 06/03/2013
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: 01/07/2013
Date Data Arrived at EDR: 01/09/2013
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 7

Source: Department of Environmental Conservation
Telephone: 518-457-2051
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
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: 02/19/2013
Date Data Arrived at EDR: 02/20/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 04/05/2013
Next Scheduled EDR Contact: 06/03/2013
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 R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
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: 04/12/2012
Date Data Arrived at EDR: 05/09/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 62
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

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: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
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: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/30/2012
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

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: 01/02/2013
Date Data Arrived at EDR: 01/02/2013
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9543
Last EDR Contact: 04/03/2013
Next Scheduled EDR Contact: 07/15/2013
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: 01/02/2013
Date Data Arrived at EDR: 01/02/2013
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 04/03/2013
Next Scheduled EDR Contact: 07/15/2013
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: Varies

AST: Petroleum Bulk Storage
Registered Aboveground Storage Tanks.

Date of Government Version: 01/02/2013
Date Data Arrived at EDR: 01/02/2013
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 04/03/2013
Next Scheduled EDR Contact: 07/15/2013
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: 01/02/2013
Date Data Arrived at EDR: 01/02/2013
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 04/03/2013
Next Scheduled EDR Contact: 07/15/2013
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: 01/02/2013
Date Data Arrived at EDR: 01/02/2013
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 04/03/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: Quarterly

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: 04/12/2012
Date Data Arrived at EDR: 05/02/2012
Date Made Active in Reports: 07/16/2012
Number of Days to Update: 75

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
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: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

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: 08/02/2012
Date Data Arrived at EDR: 08/03/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 94

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 03/19/2013
Next Scheduled EDR Contact: 05/13/2013
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: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

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: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

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: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
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: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
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: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

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: 01/14/2013
Next Scheduled EDR Contact: 04/29/2013
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: 02/19/2013
Date Data Arrived at EDR: 02/20/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

INST CONTROL: Registry of Institutional Controls
Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 02/19/2013
Date Data Arrived at EDR: 02/20/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 23
Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 06/03/2013
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: 12/23/2010
Date Made Active in Reports: 02/11/2011
Number of Days to Update: 50
Source: NYC Department of City Planning
Telephone: 212-720-3401
Last EDR Contact: 03/29/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: No Update Planned

State and tribal voluntary cleanup sites

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

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: 09/28/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 14
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/05/2013
Next Scheduled EDR Contact: 07/15/2013
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: 02/19/2013
Date Data Arrived at EDR: 02/20/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 23
Source: Department of Environmental Conservation
Telephone: 518-402-9711
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 06/03/2013
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: 02/19/2013
Date Data Arrived at EDR: 02/20/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 06/03/2013
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: 02/19/2013
Date Data Arrived at EDR: 02/20/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-9764
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 06/03/2013
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: 12/10/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/26/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

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: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: No Update Planned

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

SWRCY: Registered Recycling Facility List

A listing of recycling facilities.

Date of Government Version: 01/07/2013
Date Data Arrived at EDR: 01/09/2013
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 7

Source: Department of Environmental Conservation
Telephone: 518-402-8705
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Semi-Annually

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: 01/25/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: 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: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
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: 11/14/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 66

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
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: 02/19/2013
Date Data Arrived at EDR: 02/20/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 06/03/2013
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: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
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: 02/16/2012
Date Data Arrived at EDR: 03/26/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 80
Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

LIENS: Spill Liens Information
Lien information from the Oil Spill Fund.

Date of Government Version: 02/22/2013
Date Data Arrived at EDR: 02/27/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 16
Source: Office of the State Comptroller
Telephone: 518-474-9034
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
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: 12/31/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 55
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 04/02/2013
Next Scheduled EDR Contact: 07/15/2013
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: 02/19/2013
Date Data Arrived at EDR: 02/20/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 04/05/2013
Next Scheduled EDR Contact: 06/03/2013
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

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non 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). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 04/03/2013
Next Scheduled EDR Contact: 07/15/2013
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: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
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: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
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: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/31/2011
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 57

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/01/2013
Next Scheduled EDR Contact: 07/15/2013
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: 11/02/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 92

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/13/2013
Next Scheduled EDR Contact: 06/24/2013
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: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
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: 08/18/2011
Date Data Arrived at EDR: 09/08/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/06/2013
Next Scheduled EDR Contact: 06/17/2013
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: 12/31/2009
Date Data Arrived at EDR: 09/01/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 131

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/26/2013
Next Scheduled EDR Contact: 06/10/2013
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: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/28/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Every 4 Years

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
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: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
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: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
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: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
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: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/16/2013
Next Scheduled EDR Contact: 04/29/2013
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: 06/21/2011
Date Data Arrived at EDR: 07/15/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 60

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
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: 10/02/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/09/2013
Next Scheduled EDR Contact: 04/22/2013
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: 10/23/2011
Date Data Arrived at EDR: 12/13/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 79

Source: EPA
Telephone: (212) 637-3000
Last EDR Contact: 03/12/2013
Next Scheduled EDR Contact: 06/24/2013
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: 05/08/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
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: 12/31/2009
Date Data Arrived at EDR: 03/01/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 62

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/26/2013
Next Scheduled EDR Contact: 06/10/2013
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: 12/10/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 36

Source: Department of Environmental Conservation
Telephone: 518-402-8056
Last EDR Contact: 03/13/2013
Next Scheduled EDR Contact: 06/24/2013
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: 02/01/2013
Date Data Arrived at EDR: 02/07/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 36

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/07/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Annually

DRYCLEANERS: Registered Drycleaners

A listing of all registered drycleaning facilities.

Date of Government Version: 01/18/2013
Date Data Arrived at EDR: 01/23/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 51

Source: Department of Environmental Conservation
Telephone: 518-402-8403
Last EDR Contact: 03/18/2013
Next Scheduled EDR Contact: 07/01/2013
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: 01/28/2013
Date Data Arrived at EDR: 01/30/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 44

Source: Department of Environmental Conservation
Telephone: 518-402-8233
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: No Update Planned

AIRS: Air Emissions Data

Point source emissions inventory data.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 62

Source: Department of Environmental Conservation
Telephone: 518-402-8452
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
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: 12/10/2012
Date Data Arrived at EDR: 01/22/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 52

Source: New York City Department of City Planning
Telephone: 718-595-6658
Last EDR Contact: 03/26/2013
Next Scheduled EDR Contact: 07/08/2013
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: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
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: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

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: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 01/08/2013
Date Data Arrived at EDR: 01/09/2013
Date Made Active in Reports: 01/21/2013
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
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: 10/31/2008
Date Data Arrived at EDR: 11/25/2008
Date Made Active in Reports: 12/11/2008
Number of Days to Update: 16

Source: Department of Environmental Conservation
Telephone: 518-402-8712
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
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: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/15/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Sleam-Electric Plan 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: 01/15/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Site Listing
A listing of coal ash disposal site locations.

Date of Government Version: 01/08/2013
Date Data Arrived at EDR: 01/09/2013
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 7

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
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: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

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: 11/20/2012
Date Data Arrived at EDR: 11/30/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/19/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

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: 07/31/2012
Date Data Arrived at EDR: 08/13/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/12/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 11/15/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 91

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 04/01/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: Annually

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: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: N/A

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 12/02/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 04/04/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: Quarterly

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: 11/15/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 91

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 04/01/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: Annually

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 US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

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: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

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: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

CORTLAND COUNTY:

Cortland County Storage Tank Listing

A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 12/20/2012
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 27

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Quarterly

Cortland County Storage Tank Listing

A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 12/20/2012
Date Made Active in Reports: 01/16/2013
Number of Days to Update: 27

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Quarterly

NASSAU COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Registered Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 05/21/2003
Date Data Arrived at EDR: 05/27/2003
Date Made Active in Reports: 06/09/2003
Number of Days to Update: 13

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
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: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

Registered Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 05/21/2003
Date Data Arrived at EDR: 05/27/2003
Date Made Active in Reports: 06/09/2003
Number of Days to Update: 13

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
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: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
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: 02/08/2013
Date Data Arrived at EDR: 02/08/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 35

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Quarterly

Petroleum Bulk Storage Database
A listing of underground storage tank sites located in Rockland County.

Date of Government Version: 02/08/2013
Date Data Arrived at EDR: 02/08/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 35

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Quarterly

SUFFOLK COUNTY:

Storage Tank Database
A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 09/13/2006
Date Data Arrived at EDR: 01/11/2007
Date Made Active in Reports: 02/07/2007
Number of Days to Update: 27

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Annually

Storage Tank Database
A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 09/13/2006
Date Data Arrived at EDR: 01/11/2007
Date Made Active in Reports: 02/07/2007
Number of Days to Update: 27

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Annually

WESTCHESTER COUNTY:

Listing of Storage Tanks
A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 02/20/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 22

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

Listing of Storage Tanks
A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 02/20/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 22

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
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: 02/18/2013
Date Data Arrived at EDR: 02/18/2013
Date Made Active in Reports: 03/21/2013
Number of Days to Update: 31

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Annually

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: 01/15/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/23/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 57

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 06/22/2012
Date Made Active in Reports: 07/31/2012
Number of Days to Update: 39

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 02/15/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

WI 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: 09/27/2012
Number of Days to Update: 70

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/18/2013
Next Scheduled EDR Contact: 07/01/2013
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.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

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 and 2005 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

BFC PARKING LOT
475 BAY STREET
STATEN ISLAND, NY 10301

TARGET PROPERTY COORDINATES

Latitude (North):	40.6305 - 40° 37' 49.80''
Longitude (West):	74.0766 - 74° 4' 35.76''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	578094.0
UTM Y (Meters):	4497939.0
Elevation:	16 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	40074-F1 JERSEY CITY, NJ NY
Most Recent Revision:	1981
South Map:	40074-E1 THE NARROWS, NY NJ
Most Recent Revision:	1998

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).

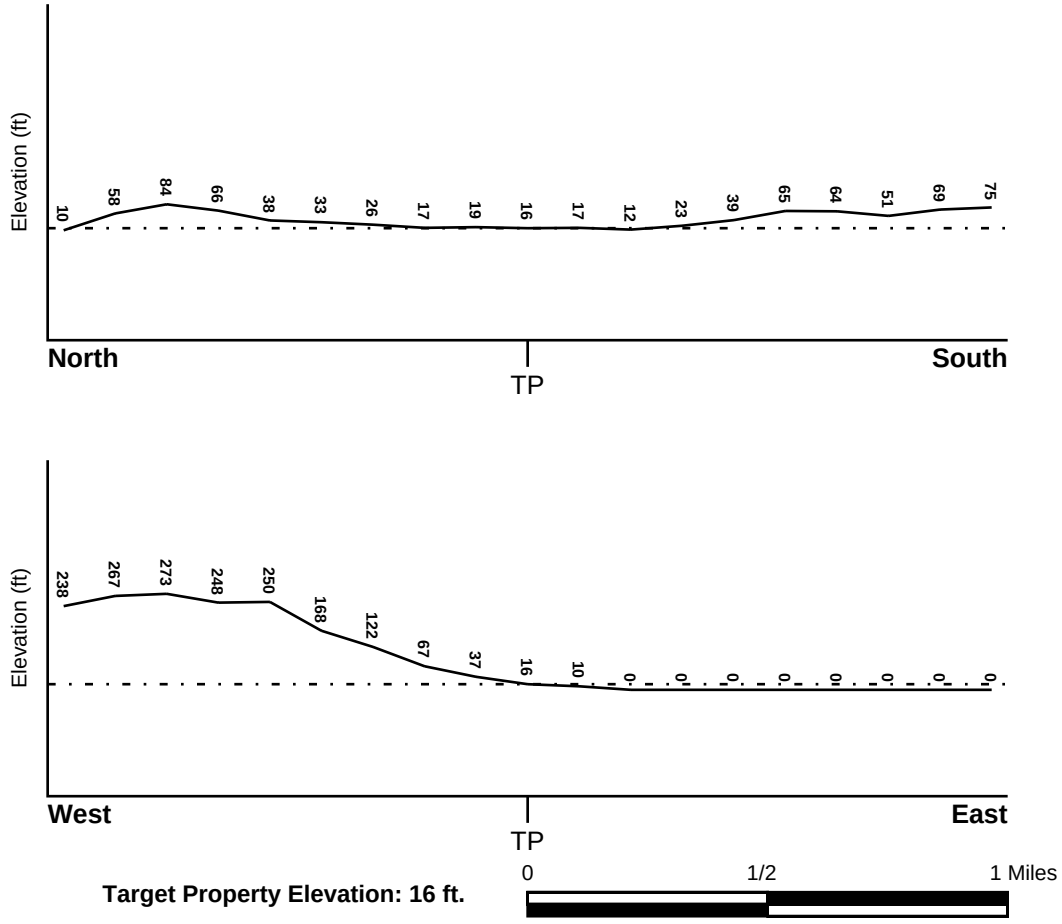
TOPOGRAPHIC INFORMATION

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 East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 16 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
RICHMOND, 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: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
JERSEY CITY	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
Status:	Not found

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:	Paleozoic
System:	Permian
Series:	Ultramafic rocks
Code:	uM *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Plutonic and Intrusive Rocks

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: sandy loam

Surficial Soil Types: sandy loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: unweathered bedrock
very gravelly - sandy loam
stratified
gravelly - 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
1	USGS40000826277	0 - 1/8 Mile North
2	USGS40000826228	1/8 - 1/4 Mile South
3	USGS40000826215	1/4 - 1/2 Mile SSW
4	USGS40000826343	1/4 - 1/2 Mile NNE
5	USGS40000826216	1/4 - 1/2 Mile SW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A6	USGS40000826203	1/4 - 1/2 Mile SSW
A7	USGS40000826204	1/4 - 1/2 Mile SSW
A8	USGS40000826205	1/4 - 1/2 Mile SSW
9	USGS40000826211	1/2 - 1 Mile WSW
10	USGS40000826447	1/2 - 1 Mile North
11	USGS40000826374	1/2 - 1 Mile NW
12	USGS40000826457	1/2 - 1 Mile North
13	USGS40000826148	1/2 - 1 Mile South
14	USGS40000826144	1/2 - 1 Mile South

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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		

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	NYOG70000000001	1/2 - 1 Mile North
A2	NYOG70000000002	1/2 - 1 Mile North

PHYSICAL SETTING SOURCE MAP - 3568702.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	BFC Parking Lot	CLIENT:	URS Corporation
ADDRESS:	475 Bay Street Staten Island NY 10301	CONTACT:	Bob Wolff
		INQUIRY #:	3568702.2s
LAT/LONG:	40.6305 / 74.0766	DATE:	April 05, 2013 1:52 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
North
0 - 1/8 Mile
Higher

FED USGS **USGS40000826277**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-403753074043701		
Monloc name:	R 7. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030104	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6314928
Longitude:	-74.0765302	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:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand and Gravel		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	50
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

2
South
1/8 - 1/4 Mile
Lower

FED USGS **USGS40000826228**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-403739074043701		
Monloc name:	R 8		
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:	40.6276039
Longitude:	-74.0765302	Sourcemap scale:	24000
Horiz Acc measure:	3	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	15
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand		

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: 0

3
SSW **FED USGS** **USGS40000826215**
1/4 - 1/2 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-403734074044501		
Monloc name:	R 14. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030104	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6262151
Longitude:	-74.0787525	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:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand and Gravel		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	43
Welldepth units:	ft	Wellholedepth:	43
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

4
NNE **FED USGS** **USGS40000826343**
1/4 - 1/2 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-403806074043101		
Monloc name:	R 6		
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:	40.6351038
Longitude:	-74.0748635	Sourcemap scale:	24000
Horiz Acc measure:	3	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	15
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand and Gravel		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	50
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

5
SW **FED USGS** **USGS40000826216**
1/4 - 1/2 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-403734074045401		
Monloc name:	R 24		
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:	40.6262151
Longitude:	-74.0812525	Sourcemap scale:	24000
Horiz Acc measure:	3	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	60
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	32
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

A6
SSW **FED USGS** **USGS40000826203**
1/4 - 1/2 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-403730074044901		
Monloc name:	R 73. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030104	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.625104
Longitude:	-74.0798636	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:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand and Gravel		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	80
Welldepth units:	ft	Wellholedepth:	80
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

A7
SSW **FED USGS** **USGS40000826204**
1/4 - 1/2 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-403730074044902		
Monloc name:	R 16		
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:	40.625104
Longitude:	-74.0798636	Sourcemap scale:	24000
Horiz Acc measure:	3	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	50
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	600
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

A8
SSW **FED USGS** **USGS40000826205**
1/4 - 1/2 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-403730074044903		
Monloc name:	R 15		
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:	40.625104
Longitude:	-74.0798636	Sourcemap scale:	24000
Horiz Acc measure:	3	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	50
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	800
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

9
WSW **FED USGS** **USGS40000826211**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-403733074052401		
Monloc name:	R 86		
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:	40.6259373
Longitude:	-74.0895861	Sourcemap scale:	24000
Horiz Acc measure:	3	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	320
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	371
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

10
North **FED USGS** **USGS40000826447**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-403830074044101		
Monloc name:	R 80. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030104	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6417703
Longitude:	-74.0776414	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:	110.0
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	37
Welldepth units:	ft	Wellholedepth:	37
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

11
NW **FED USGS** **USGS40000826374**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-403815074051901		
Monloc name:	R 79. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030104	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6376037
Longitude:	-74.0881972	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:	120.0
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	44
Welldepth units:	ft	Wellholedepth:	44
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

12
North **FED USGS** **USGS40000826457**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-403831074043301		
Monloc name:	R 81. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030104	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6420481
Longitude:	-74.0754191	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:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	49
Welldepth units:	ft	Wellholedepth:	49
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

13
South **FED USGS** **USGS40000826148**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-403659074043401		
Monloc name:	R 39		
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:	40.6164931
Longitude:	-74.0756968	Sourcemap scale:	24000
Horiz Acc measure:	3	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	60
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand and Gravel		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	102
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

14
South **FED USGS** **USGS40000826144**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-403658074042601		
Monloc name:	R 103		
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:	40.6162153
Longitude:	-74.0734745	Sourcemap scale:	24000
Horiz Acc measure:	3	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	35
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Pleistocene Series		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	27
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

A1
North
1/2 - 1 Mile

OIL_GAS **NYOG70000000001**

Api wellno:	31085270120000	Cnty:	Richmond
Hole:	27012	Sidetrck:	0
Completion:	0		
Well nm:	Staten Island Mental Health GT Well 1		
Coname:	Fund for the Advancement of Mental Health		
Opno:	2578		
Dt approv:	05/05/2011	Dt spud:	02/01/2011
Dt comp:	03/02/2011	Well typ:	Not Listed
Dtd:	1500		
Wl status:	Permit Issued	Town:	Staten Island
Field:	Not Applicable	Prodform:	Not Applicable
Xloc:	-74.07773		
Yloc:	40.6387		
Confid:	A		
Wellst:	Other Well		
Quad:	Jersey City	Quadsec:	H
Deepestfor:	Not Applicable	Elevation:	52
Dt mod:	05/09/2011	Site id:	NYOG70000000001

A2
North
1/2 - 1 Mile

OIL_GAS **NYOG70000000002**

Api wellno:	31085270130000	Cnty:	Richmond
Hole:	27013	Sidetrck:	0
Completion:	0		
Well nm:	Staten Island Mental Health GT Well 2		
Coname:	Fund for the Advancement of Mental Health		
Opno:	2578		
Dt approv:	05/05/2011	Dt spud:	02/01/2011
Dt comp:	03/02/2011	Well typ:	Not Listed
Dtd:	1500		
Wl status:	Permit Issued	Town:	Staten Island
Field:	Not Applicable	Prodform:	Not Applicable
Xloc:	-74.07747		
Yloc:	40.63873		
Confid:	A		
Wellst:	Other Well		
Quad:	Jersey City	Quadsec:	H
Deepestfor:	Not Applicable	Elevation:	52
Dt mod:	05/09/2011	Site id:	NYOG70000000002

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for RICHMOND 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 RICHMOND COUNTY, NY

Number of sites tested: 61

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.670 pCi/L	98%	2%	0%
Basement	1.250 pCi/L	84%	15%	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 and 2005 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.

STATE RECORDS

New York Public Water Wells
Source: New York Department of Health
Telephone: 518-458-6731

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Department of Environmental Conservation
Telephone: 518-402-8072
These files contain records, in the database, of wells that have been drilled.

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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BFC Parking Lot
475 Bay Street
Staten Island, NY 10301

Inquiry Number: 3568702.8
April 05, 2013

The EDR Property Tax Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

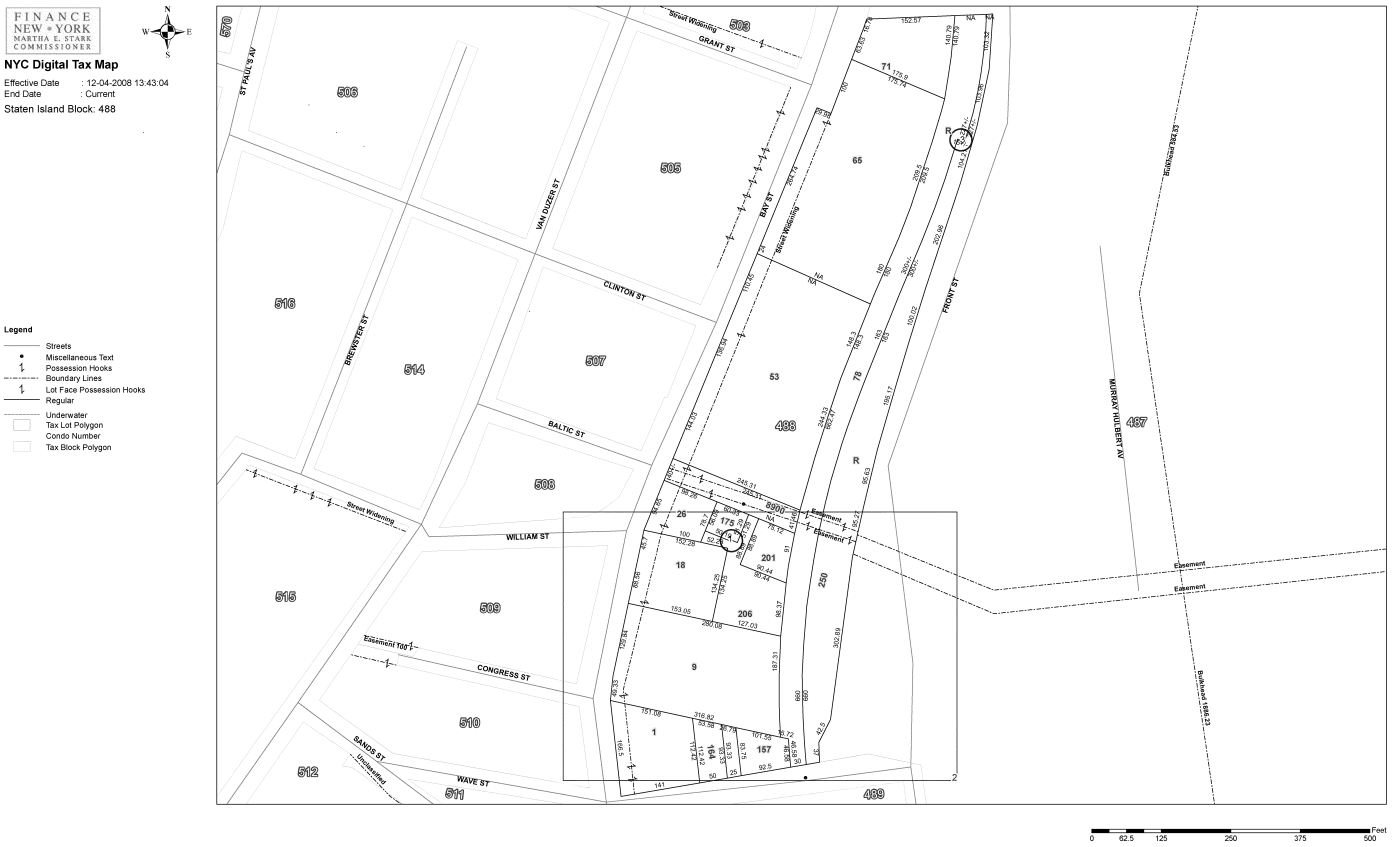
Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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FINANCE
NEW YORK
MARTHA E. STARK
COMMISSIONER
NYC Digital Tax Map
Effective Date : 12-04-2008 13:43:04
End Date : Current
Staten Island Block: 488
Legend
Streets
Miscellaneous Text
Possession Hooks
Boundary Lines
Lot Face Possession Hooks
Regular
Underwater
Tax Lot Polygon
Condo Number
Tax Block Polygon
GRANT ST
ST PAUL'S AV
VAN DUZER ST
CLINTON ST
BAY ST
FRONT ST
BREWSTER ST
BALTIC ST
WILLIAM ST
CONGRESS ST
SANDS ST
WAVE ST
MURRAY HULBERT AV
Easement
Street Widening
Unimproved
Feet
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62.5
125
250
375
500

FINANCE
NEW ✦ YORK
MARTHA E. STARK
COMMISSIONER

NYC Digital Tax Map

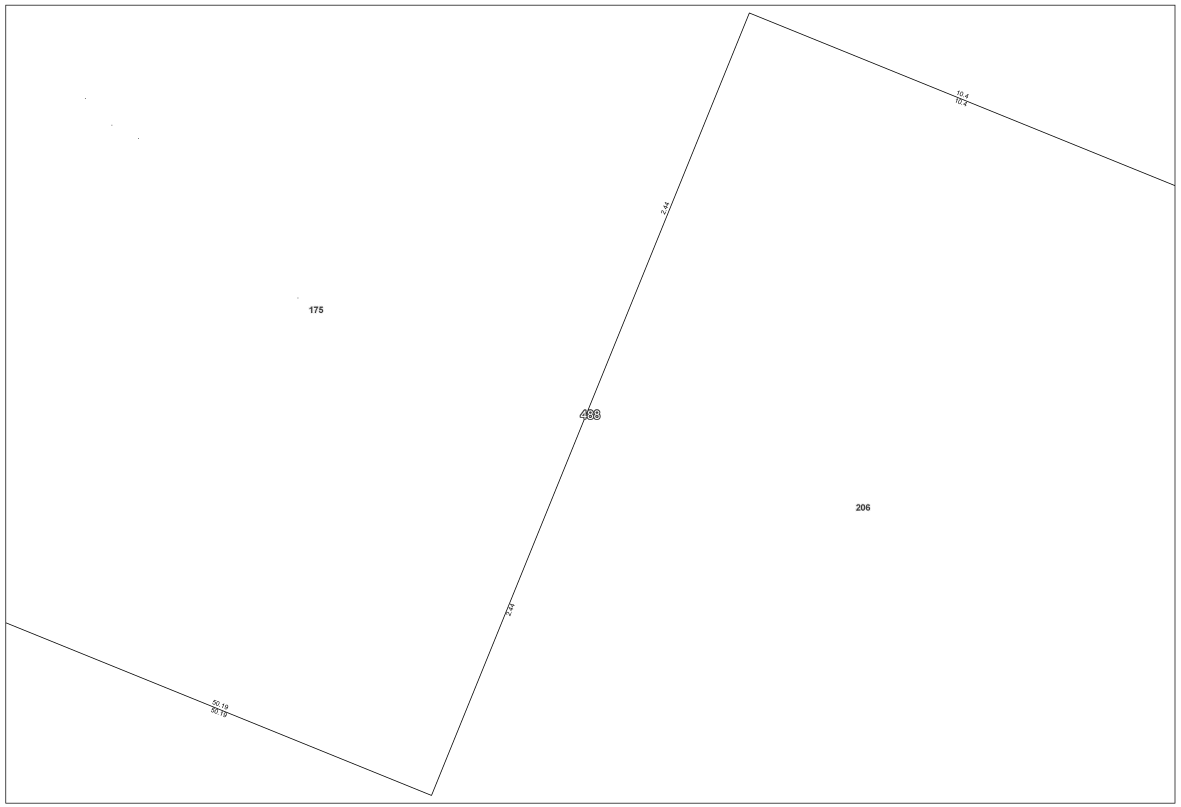
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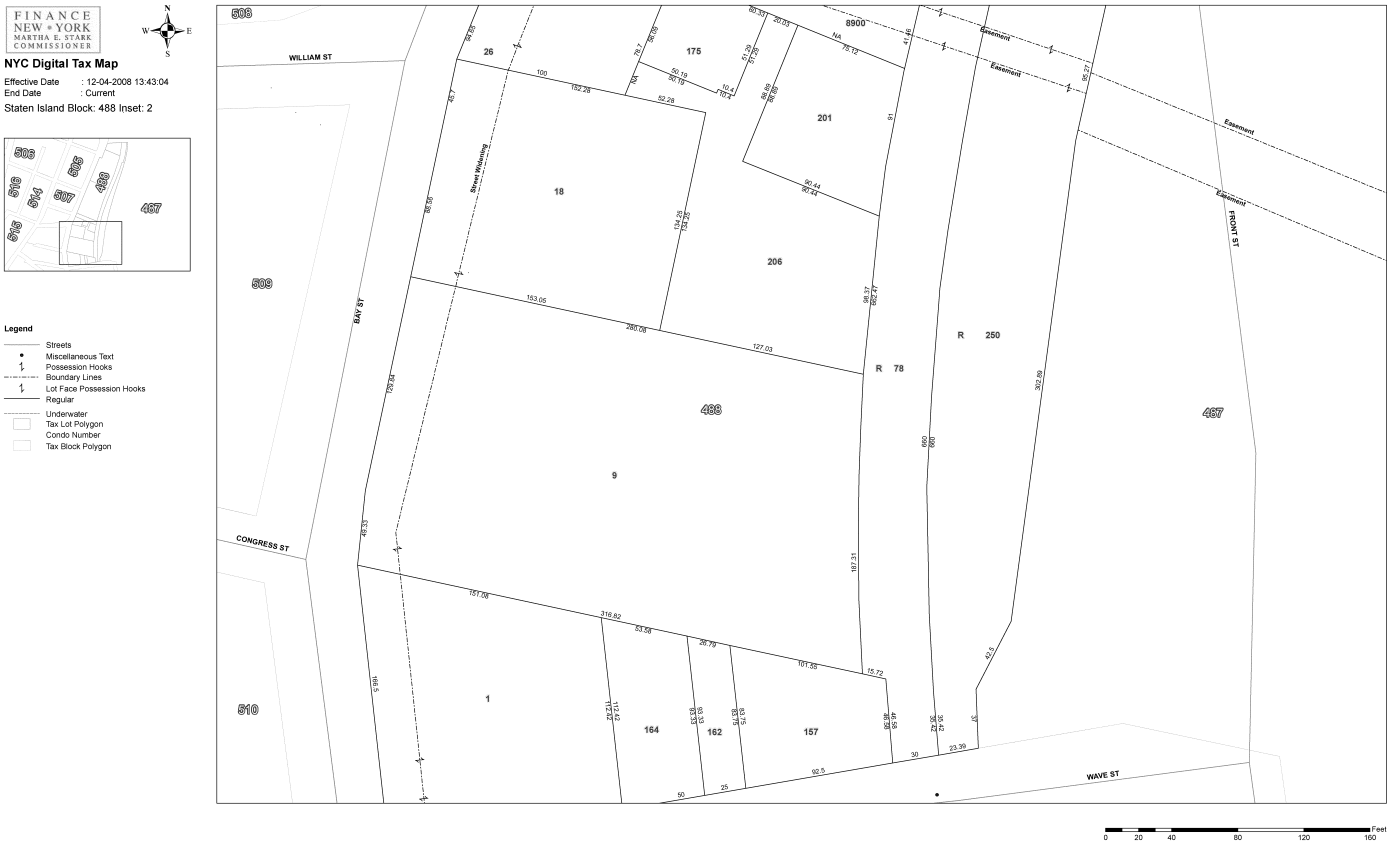
Staten Island Block: 488 Inset: 1



Legend

- Streets
- Miscellaneous Text
- Possession Hooks
- Boundary Lines
- Lot Face Possession Hooks
- Regular
- Underwater
- Tax Lot Polygon
- Condo Number
- Tax Block Polygon




FINANCE
NEW YORK
MARTHA E. STARK
COMMISSIONER
NYC Digital Tax Map
Effective Date : 12-04-2008 13:43:04
End Date : Current
Staten Island Block: 488 Inset: 2
Legend
Streets
Miscellaneous Text
Possession Hooks
Boundary Lines
Lot Face Possession Hooks
Regular
Underwater
Tax Lot Polygon
Condo Number
Tax Block Polygon
WILLIAM ST
BAY ST
CONGRESS ST
WAVE ST
FRONT ST
Easement
Street Widening
488
467
509
510
R 78
R 250
Feet

FINANCE
NEW YORK
MARTHA E. STARK
COMMISSIONER

NYC Digital Tax Map

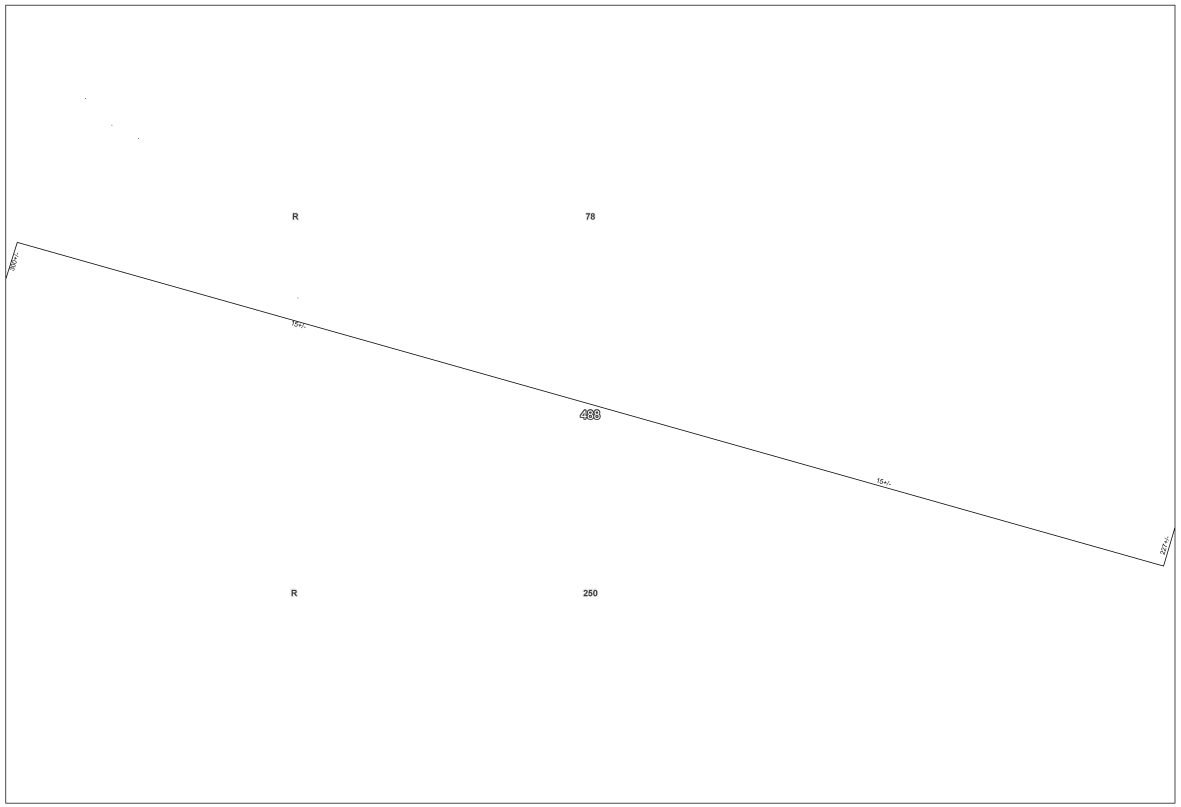
Effective Date : 12-04-2008 13:43:04
End Date : Current

Staten Island Block: 488 Inset: 3



Legend

- Streets
- Miscellaneous Text
- Possession Hooks
- Boundary Lines
- Lot Face Possession Hooks
- Regular
- Underwater
- Tax Lot Polygon
- Condo Number
- Tax Block Polygon



APPENDIX H

URS

April 10, 2013

New York City Department of Health
125 Worth Street, Room 604
Box 31
New York, NY 10013

Re: Letter of Request for Access to NYCDOH records
Based on the Freedom of Information Law
475 Bay Street, Staten Island, NY 10301

Dear Sir or Madam:

URS Corporation (URS) is conducting a Phase I Environmental Site Assessment (ESA) for the property located at 475 Bay Street, Staten Island, NY.

URS is requesting information the NYCDOH may have on file for any violations, complaints, enforcement, and/or general information regarding environmental issues for this property.

We would appreciate your help as soon as possible. Please call me at (212) 896-0185 if you have any questions.

Sincerely,
URS Corporation



Robert Wolff
Senior Project Manager

1 Penn Plaza Suite 600
New York, New York 10119
212-736-4444 • 212-629-4249 (fax)

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. Either send the completed application to the Records Access Officer at NYC DEP, 59-17 Junction Blvd., 19th Fl., Flushing, NY 11373, or fax to (718) 595-6543. **DO NOT FAX AND MAIL.**

PART I. APPLICATION – Check type of record(s) requested:

- ☐ Bid/ Procurement (ACCO)
- ☒ Asbestos (BEC)
- ☒ Hazardous materials emergency response (BEC)
- ☒ Right To Know (BEC)
- ☒ Air permits/complaints/ inspections (BEC)
- ☒ Noise complaints/ inspections (BEC)
- ☒ Environmental Review/SEQRA (BEPA)
- ☐ Industrial Pretreatment/ sewer discharge violations (BWT)
- ☐ Water main/line repair/construction (BWSO)
- ☐ Sewer main/line repair/construction (BWSO)
- ☐ Water Quality (BWS/WQ)
- ☐ Watershed/ reservoir operations (BWS)
- ☐ Watershed area incident reports (DEP PD)
- ☐ Water bill accounts/ metering (BCS)
- ☐ Personnel records (HRM)
- ☐ Wastewater Treatment Plant operations (BWT)
- ☐ _____

I hereby apply to (inspect/or) receive copies of the following records (use additional sheets as needed and attach):

Location: 475 Bay Street, Staten Island, NY 10301

Time frame/date of records: _____

Name: Robert Wolff Phone: (212) ~~856~~ 896-0185 E-Mail: Robert.Wolff@URS.com

Firm: URS Corporation

Address: One Penn Plaza, Suite 600 City NY State NY Zip 10119 Code _____

Signature: [signature] Date: 4/10/13

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)_____

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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Name (Print or type) Robert Wolff Telephone No. (212) 896-0185 Fax No. (212) 629-4249

Company (if applicable) URS Corporation E-Mail Address robert.wolff@urs.com

Mailing Address One Penn Plaza, Suite 600, NY, NY 10119

Signature _____ Date 4/10/13

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475 Bay Street

STATEN ISLAND, NEW YORK

Subsurface (Phase II) Investigation

AKRF Project Number: 11802

Prepared for:

BFC Partners

325 Gold Street

Brooklyn, New York 11201

Prepared by:

AKRF

440 Park Avenue South
New York, NY 10016
212-696-0670

SEPTEMBER 2013

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1.0 INTRODUCTION

AKRF, Inc. (AKRF) conducted a Subsurface (Phase II) Investigation at 475 Bay Street (the Site) (Tax Block 488, Lot 9) in Staten Island located to the northeast of the intersection with Congress Street and west of the Staten Island Railroad tracks (see Figures 1 and 2). The Site consists of an approximately 54,000 square foot partially asphalt-paved vacant lot.

The purpose of the investigation was to determine whether former, on-site (or off-site) activities had adversely affected the Site's subsurface. The scope of this investigation was based on URS Corporation's April 2013 *Phase I Environmental Site Assessment* (ESA). The ESA indicated that the Site was vacant by 1991, but had previously contained a lumber yard with associated glazing building, nail storage, and warehouse structures, a coal yard with an associated filling station with three gasoline underground storage tanks (USTs), a sand and gravel company, and a vehicle storage lot.

Field activities, performed on August 20 and 21, 2013, included the advancement of eight borings with the collection of sixteen soil samples and four groundwater samples, and the collection of four soil vapor samples. This report describes the methods and results of the investigation.

2.0 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

Phase I Environmental Site Assessment, 475 Bay Street, Staten Island, NY, AVT Enterprises, 2000

The Phase I ESA assessed the potential for hazardous materials to be present, based on a reconnaissance of the Site and surrounding area, a review of data on geology and hydrology of the area, an examination of historical Sanborn Fire Insurance maps and prior reports, and a review of pertinent federal and state databases. It identified that the site was historically used as a coal yard with a filling station with three gasoline USTs. A magnetometer survey and subsurface investigation were recommended to determine the location of the underground tanks and whether historic uses had affected subsurface conditions.

Phase I Environmental Site Assessment, 475 Bay Street, Staten Island, NY, URS Corporation, April 2013

This Phase I ESA, with a scope similar to the earlier Phase I ESA identified the following:

- A dry cleaning facility was located north-adjacent to the Site by 1937.
- One auto body repair shop located south-adjacent to the Site and numerous others within two-blocks.
- A coal yard located at the Site with structures labeled as coal pockets on the 1937 map.
- A structure identified as a filling station with three potential underground tanks was shown on the western portion of the Site on the 1937 map.

Based on the findings in the Phase I ESAs, AKRF recommended performance of a subsurface (Phase II) investigation, including the collection and laboratory analysis of subsurface samples.

Ground Penetrating Radar (GPR) Survey, 475 Bay Street, Staten Island, NY, Hager-Richter, April 5, 2013

A geophysical investigation, including GPR and magnetometry, was conducted on portions of the Site by Hager-Richter on April 5, 2013. The survey was conducted to investigate the potential presence of underground storage tanks (USTs) or buried aboveground storage tanks (ASTs) and the locations of subsurface utilities. The GPR survey utilized electromagnetic wave propagation and scattering to image and identify changes in electrical and magnetic properties in the ground. Magnetometers measure irregularities in the magnetic field in a given area. A possible buried concrete pad, buried metal, and

utilities were identified during the survey. There were no anomalies consistent with USTs or buried ASTs identified during the survey. Although there were no USTs observed, the reliability of geophysical investigations can vary with subsurface conditions.

3.0 PHYSICAL SETTING AND PROPOSED DEVELOPMENT

The Site is located approximately 16 feet above mean sea level. Based on surface topography, groundwater is expected to flow in a generally easterly direction towards the harbor, which is approximately 600 feet away. Actual groundwater flow direction can be affected by tidal fluctuations, subsurface openings or obstructions such as bulkheads, basements, utilities, and other factors beyond the scope of this study. Groundwater in Staten Island is not a source of potable water.

The Site is slated for redevelopment. The proposed plan includes a 214-unit affordable housing rental building through the New York City Department of Housing Preservation and Development (HPD) and the Housing Development Corporation (HDC). As this project will require a variance, in the interim, it will be used as a commuter parking lot for the displaced Staten Island Ferry parking while the Empire Outlets project is under construction next to the ferry terminal.

4.0 FIELD ACTIVITIES

On-site sampling and drilling activities were conducted on August 20 and 21, 2013 by AKRF personnel and Eastern Environmental Service Corp. (Eastern Environmental) of Manorville, NY. Field activities included the advancement of eight borings with the collection of sixteen soil and four groundwater samples as well as four soil vapor samples at the locations shown on Figure 2.

4.1 Soil and Groundwater Sampling and Analysis

Eastern Environmental advanced eight borings using a track-mounted Geoprobe® direct push probe (DPP). Groundwater was first encountered between approximately six and 15 feet below grade in the borings. Soil cores were collected from the borings in five-foot long, two-inch diameter, stainless steel macrocore piston rod samplers fitted with an internal acetate liner. Cores was field-screened using a photoionization detector (PID), which measures relative concentrations of VOCs. At each boring location, AKRF field personnel recorded and documented subsurface conditions.

Soil boring SB-1 was advanced to 25 feet below grade and all others were advanced to 20 feet. A temporary one inch PVC well was installed for collection of groundwater samples in borings SB-1 through SB-4. No odors or sheen were observed during groundwater sample collection.

Samples slated for laboratory analysis were placed in laboratory-supplied containers in accordance with EPA protocols and were analyzed by Alpha Analytical, a New York State Department of Health (NYSDOH) ELAP-certified laboratory. The samples were analyzed for the following:

- volatile organic compounds (VOCs) by EPA Method 8260;
- semi-volatile organic compounds (SVOCs) by EPA Method 8270;
- TAL metals (total and dissolved for groundwater samples);
- polychlorinated biphenyls (PCBs) by EPA Method 8082; and
- pesticides by EPA Method 8081.

4.2 Soil Vapor Sampling

Four soil vapor sampling points identified as SV-1 through SV-4 were installed using the Geoprobe rig. A two-inch screen implant (probe) with attached dedicated Teflon tubing and threaded fittings was driven to approximately 5.5 feet below grade, and then retracted approximately six inches to create a void. The boring was backfilled with clean silica sand to a depth of five feet below grade, and then hydrated bentonite was used to fill the void around the sampling tubing to grade to prevent short-circuiting of ambient air into the soil gas sampling point.

Prior to sampling, the soil vapor points were purged of three sampler volumes using a peristaltic pump. During purging, an inverted bucket was placed over the sampling point and helium gas was introduced through a small hole in the bucket to saturate the atmosphere around the sample port with helium gas. The purged vapors were collected into a Tedlar bag and monitored using a Dielectric Technologies Model MGD-2002 portable helium detector to check for short-circuiting of ambient air into the vapor sampling point and verify the adequacy of the bentonite seal. Helium concentrations of less than the NYSDOH threshold value of 10 percent are considered sufficient to verify a tight seal. All soil vapor points passed the seal integrity tests with helium readings of not detected (ND) or less than 10 percent. Purged vapors were also field-screened for VOCs using a PID calibrated with 100 parts per million (ppm) isobutylene.

After purging, the tubing from soil vapor probes SV-1 through SV-4 were connected to laboratory-supplied, batch-certified clean six-liter SUMMA canisters equipped with two-hour flow regulators. Vacuum readings were collected at the start and end of the sampling period. Immediately after opening the Summa® canister, the initial vacuum (inches of mercury) was noted. After approximately two hours, the final vacuum reading (inches of mercury) was noted and the Summa® canister was closed. Soil vapor sample SV-3 was collected over an approximately 10.5 hour sampling period, due to tight pore space. The canisters were labeled and shipped to Alpha Analytical using standard chain-of-custody procedures and were analyzed for VOCs by EPA Method TO-15. Soil vapor sampling logs are provided in Appendix A.

4.3 Field Observations

Soil Sampling

Urban fill materials (including sand with silt, gravel, asphalt, and brick) were observed in borings SB-2 through SB-8 to a depth of up to five feet below grade and in soil boring SB-1 to a depth of 10 feet. Field evidence of contamination, including slightly elevated photoionization detector (PID) readings (a maximum reading of 1.7 ppm), faint petroleum-like odors, and staining were noted: in boring SB-6 from 6 to 10 feet; in SB-7 from 6 to 10 feet; and in SB-8 from 6 to 10 feet. A PID reading of 27 ppm was detected at the surface asphalt layer of SB-1, but odors and staining were not detected. A faint petroleum-like odor and staining were also noted in soil boring SB-1 from 8 to 10 feet below ground surface but no PID readings were detected. Results of the field screening data are provided in the soil boring logs in Appendix A.

Soil Vapor Sampling

No PID readings were detected in the purged vapors from the vapor sampling points SV-1 through SV-4. Helium levels were not detected in the Tedlar bag above background ambient conditions, verifying an adequate surface seal. Field logs of the soil vapor purging and sampling are included in Appendix A.

Groundwater Sampling

Groundwater was first encountered between six and 15 feet below ground surface. No evidence of contamination (e.g., sheen or floating product) was noted in the samples. Groundwater was turbid in all samples.

5.0 FINDINGS

5.1 Soil Analysis Results

Soil laboratory analysis results are summarized in Tables 1 to 4; complete analytical data is in Appendix B.

As the Site will eventually be redevelopment into multi-family residential, results were compared to both the NYSDEC 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives (USCOs) and Part 375 Soil Cleanup Objectives for Restricted – Residential Use (RRSCOs). The USCOs, which assume long-term exposure to unpaved soils, are overly conservative given both current and potential future long-term exposure; however, they do provide guidance with respect to off-site disposal of excess soil generated during future excavation. The RRSCOs, are a more appropriate (but still highly conservative) comparison as they assume multifamily residences with some potential for soil contact. In reality, long-term exposure to existing soils does not currently occur and would not occur with the anticipated use of the Site in which all existing soil not removed by excavation would be beneath a building, paving or new imported soils used for landscaping.

Volatile Organic Compounds

Sixteen VOCs (1,2,4,5-tetramethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1,4-diethylbenzne, 2-butanone, 4-ethyltoluene, benzene, ethylbenzene, naphthalene, n-propylbenzene, o-xylene, p/m-xylene, p-chlorotoluene, p-isopropyltoluene, sec-butylbenzene, and toluene) were detected in samples SB-1 (7-9), SB-1 (15-17), SB-2 (0-2), SB-2 (18-20), SB-3 (0-2), SB-3 (18-20), SB-4 (7-9), SB-4 (18-20), SB-5 (18-20), SB-6 (7-9), SB-6 (18-20), SB-7 (6-8), SB-7 (18-20), SB-8 (6-8), and SB-8 (18-20), but all at concentrations below USCOs and RRSCOs. Acetone was detected in SB-4 (7-9), SB-7 (6-8), and SB-8 (6-8) at concentrations of 0.12 milligrams per kilogram (mg/kg), 0.055 mg/kg, and 0.16 mg/kg, respectively, all of which are above the USCO of 0.05 mg/kg but below the RRSCO. However, acetone is frequently a laboratory artifact and its reported detection in soil may not actually be correct.

Soil analytical results for VOCs are presented in Table 1.

Semi-Volatile Organic Compounds

No exceedances of USCOs or RRSCOs were identified.

Nineteen SVOCs (2-methylnaphthalene, acenaphthene, acenapththylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluroanthene, biphenyl, chrysene, dibenzo(a,h)anthracene, dibenzofuran, fluroanthene, fluorene, ideno(1,2,3,-cd)pyrene, naphthalene, phenathrene, and pyrene) were reported in samples SB-2 (0-2), SB-2 (18-20), SB-3 (0-2), SB-4 (18-20), SB-5 (0-2), SB-7(6-8), SB-7 (18-20), and SB-8 (6-8), all at concentrations below USCOs and RRSCOs. The detected SVOCs are polycyclic aromatic hydrocarbons (PAHs), a class of compounds found in coal ash and other combustion products (as well as some petroleum products and rubber) and commonly found in urban fill. The PAH concentrations are most likely attributable to the fill material and are not indicative of a spill or release at the Site.

Soil analytical results for SVOCs are presented in Table 2.

Metals

Twenty-two metals (aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, vanadium, and zinc) were detected in at least one of the sixteen soil samples. Eight of the metals (arsenic, barium, chromium, copper, lead, mercury, nickel, and zinc) were detected at concentrations exceeding their respective USCOs with four of these (barium, cadmium, lead, and nickel) RRSCOs also (in one or more of the: SB-1 (15-17), SB-2 (18-20), SB-4 (7-9), SB-5 (0-2), SB-5 (18-20), and SB-7 (6-8)). These exceedances are most likely attributable to fill materials, which often contain highly variable concentrations of metals.

Soil analytical results for metals are presented in Table 3.

Pesticides and PCBs

Aroclor 1242 was detected in sample SB-5 (0-2) at a concentration 0.174 mg/kg, above the USCO of 0.1 mg/kg (for total PCBs) but below the RRSCO of 1 mg/kg (for total PCBs).

At least one of the pesticides 4,4'-DDE and 4,4'-DDT were detected in four of the soil samples at concentrations exceeding USCOs but below RRSCOs (concentrations ranged from an estimated 0.00882 mg/kg to 0.0845 mg/kg).

The detected PCB and pesticides could relate to the fill materials or could be from site use. However, none of the detected concentrations is indicative of a significant release or spill.

Soil analytical results for pesticides and PCBs are presented in Table 4.

5.2 Groundwater Analysis Results

Groundwater analysis results are summarized in Tables 5 to 8, with complete analytical data are in Appendix B.

Laboratory results were compared to NYSDEC *Technical and Operational Guidance Series (1.1.1): Class GA Ambient Water Quality Standards (AWQS) and Guidance Values and Groundwater Effluent Limitations*. It should be noted this is overly conservative as groundwater in Staten Island is not used for potable supply.

Volatile Organic Compounds

Three VOCs were detected in at least one of the samples. Benzene was detected in sample TW-1 with an estimated concentration of 0.23 microgram per liter (ug/L), i.e., below the AWQS of 1 ug/L. Tetrachloroethylene (PCE) was also detected in TW-1 at an estimated concentration of 0.31 ug/L, below the AWQS of 5 ug/L. Trichloroethene (TCE) was detected in both TW-1 and TW-2 at estimated concentrations of 0.43 ug/L and 0.19 ug/L, respectively, below the AWQS of 5 ug/L. Benzene is typically associated with gasoline or other types of petroleum whereas the other compounds are chlorinated solvents typically associated with dry cleaning and many industrial uses. Although benzene was found at a very low level in the soil samples collected from boring SB-1 (i.e,, the same location as TW-1) , PCE and TCE were not detected in any of the soil samples. As such, these groundwater constituents appear most likely to have originated off-site, possibly from the upgradient drycleaner.

Groundwater analytical results for VOCs are presented in Table 5.

Semi-Volatile Organic Compounds

Seventeen SVOCs (2-methylnaphthalene, acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluroanthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(12,3-cd)pyrene, naphthalene, phenantherene, and pyrene) were detected in samples TW-1 and/or TW-4, six of which were above AWQS in sample TW-1. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno (1,2,3-cd) pyrene were all detected above the AWQS at concentrations ranging from of 0.54 to 1.1 ug/L. Each of these compounds was also detected in soil samples; their presence is likely attributable to the turbidity of the groundwater sample.

Groundwater analytical results for SVOCs are presented in Table 6.

Metals

Twelve metals (barium, beryllium, chromium, copper, iron, lead, magnesium, manganese, nickel, selenium, sodium, and thallium) were detected above AWQS in at least one of the samples (total analysis). Four metals (iron, magnesium, manganese, and sodium) were detected above the AWQS in at least one of the four dissolved (i.e. filtered) samples. Iron, magnesium, manganese, and sodium are naturally occurring and their presence in the groundwater does not represent an environmental concern.

Groundwater analytical results for metals are presented in Table 7.

Pesticides and PCBs

No pesticides or PCBs were detected in the samples. The groundwater analytical results for pesticides and PCBs are presented in Table 8.

5.3 Soil Vapor Analysis Results

Soil vapor analysis results are summarized in Table 9. The complete laboratory analytical data sheets are located in Appendix B.

There are no guidance values for VOCs in soil vapor; however, the results of the soil vapor samples were conservatively compared to indoor air guidelines, specifically the EPA Building Assessment and Survey Evaluation (BASE) 90th percentile value, and the criteria published in the 2006 NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, (90th percentile indoor air values from "Table C2. EPA 2001: Building Assessment and Survey Evaluation (BASE) Database, SUMMA Canister Method" and NYSDOH Air Guideline Values (AGVs)). These values provide some means of comparison; however, since the guidelines reflect indoor air, the comparison assumes that any soil vapor detected would completely penetrate into a building, a condition that would not be expected to actually occur.

Nineteen VOCs were detected in one or more of the four soil vapor samples 1,2,4-trimethylbenzene, 1,3-butadiene, 2-butanone, 2-hexanone, acetone, benzene, carbon disulfide, carbon tetrachloride, chloroform, cyclohexane, ethanol, ethylbenzene, heptane, isopropanol, n-hexane, o-xylene, p/m-xylene, propylene, PCE, and toluene detected in at least one sample. None exceeded AGVs: PCE was the only compound with an AGV that was detected, at a concentration of 78 micrograms per cubic meter of air ($\mu g/m^3$), whereas the AGV is 100 $\mu g/m^3$.

Soil vapor analytical results for VOCs are presented in Table 9.

6.0 CONCLUSIONS AND RECOMMENDATIONS

AKRF, Inc. (AKRF) conducted a subsurface (Phase II) investigation at the 475 Bay Street Site in Staten Island located to the northeast of the intersection with Congress Street and west of the Staten Island Railroad tracks. The Site consists of an approximately 54,000 square foot partially asphalt-paved vacant lot. The investigation was conducted to determine whether former on-site or off-site activities have adversely affected the site subsurface, and included: the advancement of eight borings with the collection of sixteen soil samples; four groundwater samples, and four soil vapor samples.

Soil encountered in the borings included urban fill materials (including sand with silt, gravel, concrete, brick, and asphalt) and native soil. Groundwater was first encountered at between 6 and 15 feet below grade. Field screening noted evidence of contamination, such as slightly elevated photoionization detector (PID) readings (maximum reading 1.7 ppm), odors, and staining in soil borings SB-1 (6'- 10'), SB-6 (6'- 10'), SB-7 (6'- 10'), and SB-8 (6'- 10').

Soil sample analytical results were compared to NYSDEC 6 NYCRR Part 375 Soil Cleanup Objectives for Unrestricted Use Soil Cleanup Objectives (USCOs) and Part 375 Soil Cleanup Objectives for Restricted – Residential Use (RRSCOs). Groundwater analytical results were compared to NYSDEC Technical and Operational Guidance Series (1.1.1): Class GA Ambient Water Quality Standards (AWQS) and Guidance Values and Groundwater Effluent Limitations.

The soil vapor samples were analyzed for VOCs by EPA Method TO-15. There are currently no directly applicable guidance values for VOCs in soil vapor; so soil vapor analytical results were conservatively compared to indoor air criteria published in the 2006 *NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, specifically to NYSDOH Air Guideline Values (AGVs) and to background levels of VOCs in outdoor air presented in Appendix C of the Vapor Intrusion Guidance document, including: Upper Fence Limit values from "Table C-1. NYSDOH 2003: Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes," 90th Percentile values from "Table C-2. EPA 2001: Building Assessment and Survey Evaluation (BASE) Database.

A summary of the analytical results is as follows:

- One VOC (acetone), one Aroclor (1242), two pesticides (DDE and DDT), and eight metals (arsenic, barium, chromium, copper, lead, mercury, nickel, and zinc) were detected in at least one of the soil samples in exceedance of USCOs, but below RRSCOs. Four metals (barium, cadmium, lead, and nickel) were also detected in exceedance of RRSCOs. All of these exceedances were likely attributable to urban fill materials (encountered in the borings) rather than a spill or release.
- Six SVOCs and four dissolved metals were detected in the groundwater samples above their AWQS. As the SVOCs detected above AWQS were also detected in the soil samples, their presence is likely attributable to the turbidity of the samples. In addition, the metals detected above AWQS in the filtered samples are naturally occurring and their presence in the groundwater does not represent an environmental concern.
- Nineteen VOCs were detected in at least one of the four soil vapor samples. None exceeded established AGVs but some were above reported indoor air background levels. PCE was the only compound with an AGV that was detected, at a concentration of 78 micrograms per cubic meter of air (µg/m3), whereas the AGV is 100 µg/m3.

6.1 Recommendations

The investigation identified urban fill materials containing concentrations of pesticides and metals in soil, low levels of SVOCs and metals in groundwater, as well as low levels of VOCs in soil vapor. The

detected levels do not present a significant concern for residential use, assuming implementation of the following:

- As the site is to be redeveloped into an affordable housing complex, a Remedial Action Plan (RAP) and associated Construction Health and Safety Plan (CHASP) should be prepared for implementation during proposed construction and submitted to the New York City Department of Environmental Protection (NYCDEP) for review and approval. The RAP should address requirements for items such as: soil stockpiling, soil disposal and transportation; dust control; contingency measures if petroleum storage tanks or other contamination be unexpectedly encountered; an imported clean soil cap in any landscaped areas, and the need for any vapor control measures such as a vapor barrier beneath the foundation. The CHASP should include measures for worker and community protection, including personal protective equipment, dust control, air monitoring, and emergency response procedures.
- Soil and fill materials excavated as part of site development activities should be properly handled and managed in accordance with applicable regulations. Transportation of material leaving the site for off-site disposal must be in accordance with federal, state and local regulatory requirements covering licensing of haulers and trucks, placarding, truck routes, manifesting, etc.
- Evidence of potential weathered petroleum was identified during field screening. During Site redevelopment, any unexpectedly encountered USTs should be properly closed and removed, along with any associated petroleum contaminated soil. The closure should be performed in accordance with applicable regulations, including NYSDEC tank registration and spill reporting regulations.

7.0 LIMITATIONS

The findings set forth in this report are strictly limited in scope and time to the date of the evaluation described herein. The conclusions and recommendations presented in the report are based solely on the services and any limitations described in this report.

This report may contain conclusions that are based on the analysis of data collected at the time and locations noted in the report through intrusive or non-intrusive sampling. However, further investigation might reveal additional data or variations of the current data, which may differ from our understanding of the conditions presented in this report and require the enclosed recommendations to be reevaluated or modified.

Chemical analyses may have been performed for specific parameters during the course of this investigation, as summarized in the text and tables. It should be noted that additional chemical constituents, not searched for during this investigation, may be present at the site. Due to the nature of the investigation and the limited data available, no warranty, expressed or implied, shall be construed with respect to undiscovered liabilities. The presence of biological hazards, radioactive materials, lead-based paint and asbestos-containing materials was not investigated, unless specified in the report.

Interpretations of the data, including comparison to regulatory standards, guidelines or background values, are not opinions that these comparisons are legally applicable. Furthermore, any conclusions or recommendations should not be construed as legal advice. For such advice, the client is recommended to seek appropriate legal counsel. Disturbance, handling, transportation, storage and disposal of known or potentially contaminated materials is subject to all applicable laws, which may or may not be fully described as part of this report.

The analytical data, conclusions, and/or recommendations provided in this report should not be construed in any way as a classification of waste that may be generated during future disturbance of the project site. Waste(s) generated at the site including excess fill may be considered regulated solid waste and potentially hazardous waste. Requirements for intended disposal facilities should be determined beforehand as the data provided in this report may be insufficient and could vary following additional sampling.

This report may be based solely or partially on data collected, conducted, and provided by, AKRF and/or others. No warranty is expressed or implied by usage of such data. Such data may be included in other investigation reports or documentation. In addition, these reports may have been based upon available previous reports, historical records, documentation from federal, state and local government agencies, personal interviews, and geological mapping. This report is subject, at a minimum, to the limitations of the previous reports, historical documents, availability and accuracy of collected documentation, and personal recollection of those persons interviewed. In certain instances, AKRF has been required to assume that the information provided is accurate with limited or no corroboratory evidence.

This report is intended for the use solely by BFC Partners. Reliance by third parties on the information and opinions contained herein is strictly prohibited and requires the written consent of AKRF. AKRF accepts no responsibility for damages incurred by third parties for any decisions or actions taken based on this report. This report must be used, interpreted, and presented in its entirety.

8.0 SOIL DISPOSAL ISSUES

In addition to the discussions in the Conclusions, Recommendations, and Limitations Sections (Sections 6.0 and 7.0), the issue of appropriate management of off-site disposal of soil warrants careful consideration. Any material being disposed of off-site is a regulated waste, and disposal must be in accordance with:

- Requirements of the specific receiving facility;
- Requirements of any agencies overseeing the cleanup/excavation; and
- Federal and state requirements (sometimes in both the state where the soil is generated and where disposal will occur).

For hazardous wastes and petroleum-contaminated soil (and other 'clearly contaminated' materials), the requirements are usually fairly well defined. It is in the situation where contamination is not readily apparent (e.g., so called "historic or urban fill" or "construction and demolition debris" or material that may have been formerly identified as "clean fill") that present the greatest potential for problems and cost overruns. Even on sites where no contamination requiring remediation is identified, it is common that most of the excavated material is considered "contaminated" for purposes of waste disposal. Concentrations of the various contaminants in historic fill can be highly variable, and upon further testing, the material could contain higher contaminant concentrations than outlined in this investigation. Portions of this material could be classified as hazardous waste.

It is important that the intended disposal facility (or facilities) be identified in advance of off-site disposal. Agency approval is sometimes required for disposal, and the facility will frequently require additional testing prior to (and sometimes at the time of) accepting material. Material must conform to a lengthy list of requirements based on both chemical composition and sometimes numerous other parameters (related to size, percentage of liquids, presence of odors, etc.) for acceptance at the facility. Assuming (or allowing a contractor to assume) that all, or even most, of the soil from a site can be disposed of at minimal cost may result in unanticipated and expensive change orders.

For these reasons, we recommend that professional advice be sought prior to preparing bid documents and contracts incorporating soil disposal.

9.0 REFERENCES

1. U.S. Geological Survey, *Jersey City, New Jersey - New Jersey Quadrangle*, 7.5 minute Series (Topographic), Scale 1:24,000, 1981.

2. Phase I Environmental Site Assessment, 475 Bay Street, Staten Island, NY, AVT Enterprises, 2000.

3. Phase I Environmental Site Assessment, 475 Bay Street, Staten Island, NY, URS Corporation, April 2013.

TABLES

Table 1
475 Bay Street
Staten Island, NY
Subsurface Investigation Soil Analytical Results
Volatile Organic Compounds

Client ID	NYSDEC	NYSDEC	SB-1 (7-9)	SB-1 (15-17)	SB-2 (0-2)	SB-2 (18-20)	SB-3 (0-2)	SB-3 (18-20)	SB-4 (7-9)	SB-4 (18-20)	SB-5 (0-2)	SB-5 (18-20)	SB-6 (7-9)	SB-6 (18-20)	SB-7 (6-8)	SB-7 (18-20)	SB-8 (6-8)	SB-8 (18-20)
Lab Sample ID	Part 375	Part 375	L1316206-01	L1316206-02	L1316206-03	L1316206-04	L1316206-05	L1316206-06	L1316206-07	L1316206-08	L1316206-13	L1316206-14	L1316298-01	L1316298-02	L1316298-03	L1316298-04	L1316298-05	L1316298-06
Date Sampled	Unrestricted	Restricted	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013
Dilution	SCO	Residential	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	1
		SCO																
mg/kg	mg/kg	mg/kg																
1,1,1,2-Tetrachloroethane	NS	NS	0.0012 U	0.0012 U	0.0011 U	0.0013 U	0.0011 U	0.0012 U	0.0014 U	0.0011 U	0.0016 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0064 U	0.0012 U
1,1,1-Trichloroethane	0.68	100	0.0012 U	0.0012 U	0.0011 U	0.0013 U	0.0011 U	0.0012 U	0.0014 U	0.0011 U	0.0016 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0064 U	0.0012 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0012 U	0.0012 U	0.0011 U	0.0013 U	0.0011 U	0.0012 U	0.0014 U	0.0011 U	0.0016 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0064 U	0.0012 U
1,1,2-Trichloroethane	NS	NS	0.0017 U	0.0018 U	0.0016 U	0.002 U	0.0016 U	0.0018 U	0.0021 U	0.0017 U	0.0024 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0096 U	0.0017 U
1,1-Dichloroethane	0.27	26	0.0017 U	0.0018 U	0.0016 U	0.002 U	0.0016 U	0.0018 U	0.0021 U	0.0017 U	0.0024 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0096 U	0.0017 U
1,1-Dichloroethene	0.33	100	0.0012 U	0.0012 U	0.0011 U	0.0013 U	0.0011 U	0.0012 U	0.0014 U	0.0011 U	0.0016 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0064 U	0.0012 U
1,1-Dichloropropene	NS	NS	0.0058 U	0.006 U	0.0053 U	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.032 U	0.0058 U
1,2,3-Trichlorobenzene	NS	NS	0.0058 U	0.006 U	0.0053 U	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.032 U	0.0058 U
1,2,3-Trichloropropane	NS	NS	0.012 U	0.012 U	0.011 U	0.013 U	0.011 U	0.012 U	0.014 U	0.011 U	0.016 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.064 U	0.012 U
1,2,4,5-Tetramethylbenzene	NS	NS	0.0046 U	0.0048 U	0.0018 J	0.0054 U	0.0044 U	0.0047 U	0.0057 U	0.0046 U	0.0063 U	0.0045 U	0.0046 U	0.0046 U	0.0045 U	0.0045 U	0.0075 J	0.0046 U
1,2,4-Trichlorobenzene	NS	NS	0.0058 U	0.006 U	0.0053 U	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.032 U	0.0058 U
1,2,4-Trimethylbenzene	3.6	52	0.0058 U	0.006 U	0.0031 J	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.011 J	0.0058 U
1,2-Dibromo-3-chloropropane	NS	NS	0.0058 U	0.006 U	0.0053 U	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.032 U	0.0058 U
1,2-Dibromoethane	NS	NS	0.0046 U	0.0048 U	0.0043 U	0.0054 U	0.0044 U	0.0047 U	0.0057 U	0.0046 U	0.0063 U	0.0045 U	0.0046 U	0.0046 U	0.0045 U	0.0045 U	0.026 U	0.0046 U
1,2-Dichlorobenzene	1.1	100	0.0058 U	0.006 U	0.0053 U	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.032 U	0.0058 U
1,2-Dichloroethane	0.02	3.1	0.0012 U	0.0012 U	0.0011 U	0.0013 U	0.0011 U	0.0012 U	0.0014 U	0.0011 U	0.0016 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0064 U	0.0012 U
1,2-Dichloropropane	NS	NS	0.004 U	0.0042 U	0.0037 U	0.0047 U	0.0038 U	0.0041 U	0.005 U	0.004 U	0.0056 U	0.0039 U	0.004 U	0.004 U	0.004 U	0.004 U	0.022 U	0.004 U
1,3,5-Trimethylbenzene	8.4	52	0.0058 U	0.006 U	0.00091 J	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0062 J	0.0058 U
1,3-Dichlorobenzene	2.4	49	0.0058 U	0.006 U	0.0053 U	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.032 U	0.0058 U
1,3-Dichloropropane	NS	NS	0.0058 U	0.006 U	0.0053 U	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.032 U	0.0058 U
1,4-Dichlorobenzene	1.8	13	0.0058 U	0.006 U	0.0053 U	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.032 U	0.0058 U
1,4-Diethylbenzene	NS	NS	0.0046 U	0.0048 U	0.0026 J	0.0054 U	0.0044 U	0.0047 U	0.0057 U	0.0046 U	0.0063 U	0.0045 U	0.0046 U	0.0046 U	0.0045 U	0.0045 U	0.0079 J	0.0046 U
1,4-Dioxane	0.1	13	0.12 U	0.12 U	0.11 U	0.13 U	0.11 U	0.12 U	0.14 U	0.11 U	0.16 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.64 U	0.12 U
2,2-Dichloropropane	NS	NS	0.0058 U	0.006 U	0.0053 U	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.032 U	0.0058 U
2-Butanone	0.12	100	0.012 U	0.003 J	0.011 U	0.013 U	0.011 U	0.0051 J	0.019	0.011 U	0.016 U	0.011 U	0.002 J	0.0061 J	0.011	0.0057 J	0.043 J	0.0018 J
2-Hexanone	NS	NS	0.012 U	0.012 U	0.011 U	0.013 U	0.011 U	0.012 U	0.014 U	0.011 U	0.016 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.064 U	0.012 U
4-Ethyltoluene	NS	NS	0.0046 U	0.0048 U	0.0023 J	0.0054 U	0.0044 U	0.0047 U	0.0057 U	0.0046 U	0.0063 U	0.0045 U	0.0046 U	0.0046 U	0.0045 U	0.0045 U	0.0047 J	0.0046 U
4-Methyl-2-pentanone	NS	NS	0.012 U	0.012 U	0.011 U	0.013 U	0.011 U	0.012 U	0.014 U	0.011 U	0.016 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.064 U	0.012 U
Acetone	0.05	100	0.009 J	0.018	0.011 U	0.013 U	0.0055 J	0.025	**0.12**	0.0072 J	0.016 U	0.0046 J	0.011	0.032	**0.055**	0.031	**0.16**	0.0069 J
Acrylonitrile	NS	NS	0.012 U	0.012 U	0.011 U	0.013 U	0.011 U	0.012 U	0.014 U	0.011 U	0.016 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.064 U	0.012 U
Benzene	0.06	4.8	0.0012 U	0.00034 J	0.0011 U	0.0013 U	0.00031 J	0.00033 J	0.0014 U	0.0011 U	0.0016 U	0.0011 U	0.0014	0.0011 U	0.0011 U	0.0011 U	0.0064 U	0.0012 U
Bromobenzene	NS	NS	0.0058 U	0.006 U	0.0053 U	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.032 U	0.0058 U
Bromochloromethane	NS	NS	0.0058 U	0.006 U	0.0053 U	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.032 U	0.0058 U
Bromodichloromethane	NS	NS	0.0012 U	0.0012 U	0.0011 U	0.0013 U	0.0011 U	0.0012 U	0.0014 U	0.0011 U	0.0016 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0064 U	0.0012 U
Bromoform	NS	NS	0.0046 U	0.0048 U	0.0043 U	0.0054 U	0.0044 U	0.0047 U	0.0057 U	0.0046 U	0.0063 U	0.0045 U	0.0046 U	0.0046 U	0.0045 U	0.0045 U	0.026 U	0.0046 U
Bromomethane	NS	NS	0.0023 U	0.0024 U	0.0021 U	0.0027 U	0.0022 U	0.0023 U	0.0028 U	0.0023 U	0.0032 U	0.0022 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.013 U	0.0023 U
Carbon disulfide	NS	NS	0.012 U	0.012 U	0.011 U	0.013 U	0.011 U	0.012 U	0.014 U	0.011 U	0.016 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.064 U	0.012 U
Carbon tetrachloride	0.76	2.4	0.0012 U	0.0012 U	0.0011 U	0.0013 U	0.0011 U	0.0012 U	0.0014 U	0.0011 U	0.0016 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0064 U	0.0012 U
Chlorobenzene	1.1	100	0.0012 U	0.0012 U	0.0011 U	0.0013 U	0.0011 U	0.0012 U	0.0014 U	0.0011 U	0.0016 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0064 U	0.0012 U
Chloroethane	NS	NS	0.0023 U	0.0024 U	0.0021 U	0.0027 U	0.0022 U	0.0023 U	0.0028 U	0.0023 U	0.0032 U	0.0022 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.013 U	0.0023 U
Chloroform	0.37	49	0.0017 U	0.0018 U	0.0016 U	0.002 U	0.0016 U	0.0018 U	0.0021 U	0.0017 U	0.0024 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0096 U	0.0017 U
Chloromethane	NS	NS	0.0058 U	0.006 U	0.0053 U	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.032 U	0.0058 U
cis-1,2-Dichloroethene	0.25	100	0.0012 U	0.0012 U	0.0011 U	0.0013 U	0.0011 U	0.0012 U	0.0014 U	0.0011 U	0.0016 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0064 U	0.0012 U
cis-1,3-Dichloropropene	NS	NS	0.0012 U	0.0012 U	0.0011 U	0.0013 U	0.0011 U	0.0012 U	0.0014 U	0.0011 U	0.0016 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0064 U	0.0012 U
Dibromochloromethane	NS	NS	0.0012 U	0.0012 U	0.0011 U	0.0013 U	0.0011 U	0.0012 U	0.0014 U	0.0011 U	0.0016 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0064 U	0.0012 U
Dibromomethane	NS	NS	0.012 U	0.012 U	0.011 U	0.013 U	0.011 U	0.012 U	0.014 U	0.011 U	0.016 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.064 U	0.012 U
Dichlorodifluoromethane	NS	NS	0.012 U	0.012 U	0.011 U	0.013 U	0.011 U	0.012 U	0.014 U	0.011 U	0.016 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.064 U	0.012 U
Ethyl ether	NS	NS	0.0058 U	0.006 U	0.0053 U	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.032 U	0.0058 U
Ethylbenzene	1	41	0.0012 U	0.0012 U	0.0011 U	0.0013 U	0.0011 U	0.0012 U	0.0014 U	0.0011 U	0.0016 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.005 J	0.0012 U
Hexachlorobutadiene	NS	NS	0.0058 U	0.006 U	0.0053 U	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.032 U	0.0058 U
Isopropylbenzene	NS	NS	0.0012 U	0.0012 U	0.0011 U	0.0013 U	0.0011 U	0.0012 U	0.0014 U	0.0011 U	0.0016 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0064 U	0.0012 U
Methyl tert butyl ether	0.93	100	0.0023 U	0.0024 U	0.0021 U	0.0027 U	0.0022 U	0.0023 U	0.0028 U	0.0023 U	0.0032 U	0.0022 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.013 U	0.0023 U
Methylene chloride	0.05	100	0.012 U	0.012 U	0.011 U	0.013 U	0.011 U	0.012 U	0.014 U	0.011 U	0.016 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.064 U	0.012 U
Naphthalene	12	100	0.0058 U	0.006 U	0.00079 J	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0015 J	0.0057 U	9.8	0.031
n-Butylbenzene	12	100	0.0012 U	0.0012 U	0.0011 U	0.0013 U	0.0011 U	0.0012 U	0.0014 U	0.0011 U	0.0016 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0064 U	0.0012 U
n-Propylbenzene	3.9	100	0.0012 U	0.0012 U	0.014	0.0013 U	0.0011 U	0.0012 U	0.0014 U	0.0011 U	0.0016 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0064 U	0.0012 U
o-Chlorotoluene	NS	NS	0.0058 U	0.006 U	0.0053 U	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.032 U	0.0058 U
o-Xylene	0.26	100	0.0023 U	0.0024 U	0.00038 J	0.0027 U	0.0022 U	0.0023 U	0.0028 U	0.0023 U	0.0032 U	0.0022 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0054 J	0.0023 U
p/m-Xylene	0.26	100	0.0023 U	0.0024 U	0.0053 U	0.0027 U	0.0022 U	0.0023 U	0.0028 U	0.0023 U	0.0032 U	0.0022 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0067 J	0.0023 U
p-Chlorotoluene	NS	NS	0.0058 U	0.006 U	0.00038 J	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.032 U	0.0058 U
p-Isopropyltoluene	NS	NS	0.0012 U	0.0012 U	0.00039 J	0.0013 U	0.0011 U	0.0012 U	0.0014 U	0.0011 U	0.0016 U	0.0011 U	0.0011 U	0.049	0.0011 U	0.0011 U	0.0064 U	0.0012 U
sec-Butylbenzene	11	100	0.0012 U	0.0012 U	0.00047 J	0.0013 U	0.0011 U	0.0012 U	0.0014 U	0.0011 U	0.0016 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0064 U	0.0012 U
Styrene	NS	NS	0.0023 U	0.0024 U	0.0021 U	0.0027 U	0.0022 U	0.0023 U	0.0028 U	0.0023 U	0.0032 U	0.0022 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.013 U	0.0023 U
tert-Butylbenzene	5.9	100	0.0058 U	0.006 U	0.0053 U	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.032 U	0.0058 U
Tetrachloroethene	1.3	19	0.0012 U	0.0012 U	0.0011 U	0.0013 U	0.0011 U	0.0012 U	0.0014 U	0.0011 U	0.0016 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0064 U	0.0012 U
Toluene	0.7	100	0.0017 U	0.00038 J	0.00028 J	0.0003 J	0.00025 J	0.00048 J	0.0004 J	0.00034 J	0.0024 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0096 U	0.0017 U
trans-1,2-Dichloroethene	0.19	100	0.0017 U	0.0018 U	0.0016 U	0.002 U	0.0016 U	0.0018 U	0.0021 U	0.0017 U	0.0024 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0096 U	0.0017 U
trans-1,3-Dichloropropene	NS	NS	0.0012 U	0.0012 U	0.0011 U	0.0013 U	0.0011 U	0.0012 U	0.0014 U	0.0011 U	0.0016 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0064 U	0.0012 U
trans-1,4-Dichloro-2-butene	NS	NS	0.0058 U	0.006 U	0.0053 U	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.032 U	0.0058 U
Trichloroethene	0.47	21	0.0012 U	0.0012 U	0.0011 U	0.0013 U	0.0011 U	0.0012 U	0.0014 U	0.0011 U	0.0016 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0064 U	0.0012 U
Trichlorofluoromethane	NS	NS	0.0058 U	0.006 U	0.0053 U	0.0067 U	0.0055 U	0.0059 U	0.0071 U	0.0057 U	0.0079 U	0.0056 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.032 U	0.0058 U
Vinyl acetate	NS	NS	0.012 U	0.012 U	0.011 U	0.013 U	0.011 U	0.012 U	0.014 U	0.011 U	0.016 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.064 U	0.012 U
Vinyl chloride	0.02	0.9	0.0023 U	0.0024 U	0.0021 U	0.0027 U	0.0022 U	0.0023 U	0.0028 U	0.0023 U	0.0032 U	0.0022 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.013 U	0.0023 U

Table 2
475 Bay Street
Staten Island, NY
Subsurface Investigation Soil Analytical Results
Semivolatile Organic Compounds

Client ID	NYSDEC Part 375 Unrestricted SCO	NYSDEC Part 375 Restricted Residential SCO	SB-1 (7-9)	SB-1 (15-17)	SB-2 (0-2)	SB-2 (18-20)	SB-3 (0-2)	SB-3 (18-20)	SB-4 (7-9)	SB-4 (18-20)	SB-5 (0-2)	SB-5 (18-20)	SB-6 (7-9)	SB-6 (18-20)	SB-7 (6-8)	SB-7 (18-20)	SB-8 (6-8)	SB-8 (18-20)
Lab Sample ID			L1316206-01	L1316206-02	L1316206-03	L1316206-04	L1316206-05	L1316206-06	L1316206-07	L1316206-08	L1316206-13	L1316206-14	L1316298-01	L1316298-02	L1316298-03	L1316298-04	L1316298-05	L1316298-06
Date Sampled			8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013
mg/kg	mg/kg	mg/gk																
1,2,4,5-Tetrachlorobenzene	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
1,2,4-Trichlorobenzene	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
1,2-Dichlorobenzene	1.1	100	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
1,3-Dichlorobenzene	2.4	49	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
1,4-Dichlorobenzene	1.8	13	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
2,4,5-Trichlorophenol	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
2,4,6-Trichlorophenol	NS	NS	0.11 U	0.12 U	0.1 U	0.13 U	0.11 U	0.11 U	0.14 U	0.11 U	0.16 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.12 U	0.11 U
2,4-Dichlorophenol	NS	NS	0.17 U	0.18 U	0.16 U	0.2 U	0.16 U	0.17 U	0.21 U	0.17 U	0.23 U	0.16 U	0.17 U	0.17 U	0.16 U	0.17 U	0.19 U	0.17 U
2,4-Dimethylphenol	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
2,4-Dinitrophenol	NS	NS	0.9 U	0.95 U	0.83 U	1.1 U	0.88 U	0.91 U	1.1 U	0.9 U	1.2 U	0.88 U	0.9 U	0.89 U	0.88 U	0.89 U	1 U	0.91 U
2,4-Dinitrotoluene	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
2,6-Dinitrotoluene	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
2-Chloronaphthalene	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
2-Chlorophenol	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
2-Methylnaphthalene	NS	NS	0.22 U	0.24 U	0.21 U	0.26 U	0.32	0.23 U	0.28 U	0.22 U	0.31 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.25 U	0.23 U
2-Methylphenol	0.33	100	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
2-Nitroaniline	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
2-Nitrophenol	NS	NS	0.4 U	0.43 U	0.37 U	0.48 U	0.4 U	0.41 U	0.5 U	0.41 U	0.56 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.45 U	0.41 U
3,3'-Dichlorobenzidine	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
3-Methylphenol/4-Methylphenol	0.33	100	0.27 U	0.29 U	0.25 U	0.32 U	0.26 U	0.27 U	0.34 U	0.27 U	0.37 U	0.26 U	0.27 U	0.27 U	0.26 U	0.27 U	0.3 U	0.27 U
3-Nitroaniline	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
4,6-Dinitro-o-cresol	NS	NS	0.49 U	0.52 U	0.45 U	0.57 U	0.48 U	0.49 U	0.61 U	0.49 U	0.68 U	0.48 U	0.49 U	0.48 U	0.48 U	0.48 U	0.54 U	0.49 U
4-Bromophenyl phenyl ether	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
4-Chloroaniline	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
4-Chlorophenyl phenyl ether	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
4-Nitroaniline	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
4-Nitrophenol	NS	NS	0.26 U	0.28 U	0.24 U	0.31 U	0.26 U	0.26 U	0.33 U	0.26 U	0.36 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.29 U	0.26 U
Acenaphthene	20	100	0.15 U	0.16 U	0.14 U	0.18 U	0.057 J	0.15 U	0.19 U	0.15 U	0.21 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.17 U	0.15 U
Acenaphthylene	100	100	0.15 U	0.16 U	0.094 J	0.18 U	0.6	0.15 U	0.19 U	0.15 U	0.21 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.17 U	0.15 U
Acetophenone	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
Anthracene	100	100	0.11 U	0.12 U	0.14	0.13 U	0.36	0.11 U	0.14 U	0.031 J	0.16 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.067 J	0.11 U
Benzo(a)anthracene	1	1	0.11 U	0.12 U	0.47	0.13 U	0.46	0.11 U	0.14 U	0.054 J	0.12 J	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.15	0.11 U
Benzo(a)pyrene	1	1	0.15 U	0.16 U	0.45	0.18 U	0.35	0.15 U	0.19 U	0.05 J	0.13 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.17	0.15 U
Benzo(b)fluoranthene	1	1	0.11 U	0.12 U	0.58	0.13 U	0.49	0.11 U	0.14 U	0.06 J	0.18	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.19	0.11 U
Benzo(ghi)perylene	100	100	0.15 U	0.16 U	0.26	0.18 U	0.18	0.15 U	0.19 U	0.15 U	0.11 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.16 J	0.15 U
Benzo(k)fluoranthene	0.8	3.9	0.11 U	0.12 U	0.24	0.13 U	0.14	0.11 U	0.14 U	0.11 U	0.069 J	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.084 J	0.11 U
Benzoic Acid	NS	NS	0.61 U	0.64 U	0.56 U	0.72 U	0.59 U	0.61 U	0.76 U	0.61 U	0.84 U	0.6 U	0.61 U	0.6 U	0.6 U	0.6 U	0.68 U	0.61 U
Benzyl Alcohol	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
Biphenyl	NS	NS	0.43 U	0.45 U	0.4 U	0.5 U	0.074 J	0.43 U	0.53 U	0.43 U	0.59 U	0.42 U	0.43 U	0.42 U	0.42 U	0.42 U	0.48 U	0.43 U
Bis(2-chloroethoxy)methane	NS	NS	0.2 U	0.21 U	0.19 U	0.24 U	0.2 U	0.2 U	0.25 U	0.2 U	0.28 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.22 U	0.2 U
Bis(2-chloroethyl)ether	NS	NS	0.17 U	0.18 U	0.16 U	0.2 U	0.16 U	0.17 U	0.21 U	0.17 U	0.23 U	0.16 U	0.17 U	0.17 U	0.16 U	0.17 U	0.19 U	0.17 U
Bis(2-chloroisopropyl)ether	NS	NS	0.22 U	0.24 U	0.21 U	0.26 U	0.22 U	0.23 U	0.28 U	0.22 U	0.31 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.25 U	0.23 U
Bis(2-Ethylhexyl)phthalate	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
Butyl benzyl phthalate	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
Carbazole	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
Chrysene	1	3.9	0.11 U	0.12 U	0.51	0.13 U	0.59	0.11 U	0.14 U	0.056 J	0.14 J	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.15	0.11 U
Dibenzo(a,h)anthracene	0.33	0.33	0.11 U	0.12 U	0.074 J	0.13 U	0.06 J	0.11 U	0.14 U	0.11 U	0.16 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.12 U	0.11 U
Dibenzofuran	7	59	0.19 U	0.2 U	0.17 U	0.22 U	0.11 J	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
Diethyl phthalate	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
Dimethyl phthalate	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
Di-n-butylphthalate	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
Di-n-octylphthalate	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
Fluoranthene	100	100	0.11 U	0.12 U	0.98	0.13 U	1.1	0.11 U	0.14 U	0.14	0.21	0.11 U	0.11 U	0.11 U	0.051 J	0.049 J	0.38	0.11 U
Fluorene	30	100	0.19 U	0.2 U	0.17 U	0.22 U	0.22	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
Hexachlorobenzene	0.33	1.2	0.11 U	0.12 U	0.1 U	0.13 U	0.11 U	0.11 U	0.14 U	0.11 U	0.16 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.12 U	0.11 U
Hexachlorobutadiene	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
Hexachlorocyclopentadiene	NS	NS	0.54 U	0.57 U	0.5 U	0.63 U	0.52 U	0.54 U	0.67 U	0.54 U	0.74 U	0.53 U	0.54 U	0.53 U	0.53 U	0.53 U	0.6 U	0.54 U
Hexachloroethane	NS	NS	0.15 U	0.16 U	0.14 U	0.18 U	0.15 U	0.15 U	0.19 U	0.15 U	0.21 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.17 U	0.15 U
Indeno(1,2,3-cd)Pyrene	0.5	0.5	0.15 U	0.16 U	0.33	0.18 U	0.19	0.15 U	0.19 U	0.15 U	0.11 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.13 J	0.15 U
Isophorone	NS	NS	0.17 U	0.18 U	0.16 U	0.2 U	0.16 U	0.17 U	0.21 U	0.17 U	0.23 U	0.16 U	0.17 U	0.17 U	0.16 U	0.17 U	0.19 U	0.17 U
Naphthalene	12	100	0.19 U	0.2 U	0.17 U	0.22 U	0.34	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
Nitrobenzene	NS	NS	0.17 U	0.18 U	0.16 U	0.2 U	0.16 U	0.17 U	0.21 U	0.17 U	0.23 U	0.16 U	0.17 U	0.17 U	0.16 U	0.17 U	0.19 U	0.17 U
NitrosoDiPhenylAmine(NDPA)/DPA	NS	NS	0.15 U	0.16 U	0.14 U	0.18 U	0.15 U	0.15 U	0.19 U	0.15 U	0.21 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.17 U	0.15 U
n-Nitrosodi-n-propylamine	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
P-Chloro-M-Cresol	NS	NS	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
Pentachlorophenol	0.8	6.7	0.15 U	0.16 U	0.14 U	0.18 U	0.15 U	0.15 U	0.19 U	0.15 U	0.21 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.17 U	0.15 U
Phenanthrene	100	100	0.11 U	0.12 U	0.47	0.083 J	0.87	0.11 U	0.14 U	0.14	0.051 J	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.24	0.11 U
Phenol	0.33	100	0.19 U	0.2 U	0.17 U	0.22 U	0.18 U	0.19 U	0.23 U	0.19 U	0.26 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U
Pyrene	100	100	0.11 U	0.12 U	0.99	0.13 U	1.6	0.11 U	0.14 U	0.13	0.2	0.11 U	0.11 U	0.11 U	0.045 J	0.044 J	0.33	0.11 U

Table 3
475 Bay Street
Staten Island, NY
Subsurface Investigation Soil Analytical Results
Metals

Client ID	NYSDEC	NYSDEC	SB-1 (7-9)	SB-1 (15-17)	SB-2 (0-2)	SB-2 (18-20)	SB-3 (0-2)	SB-3 (18-20)	SB-4 (7-9)	SB-4 (18-20)	SB-5 (0-2)	SB-5 (18-20)	SB-6 (7-9)	SB-6 (18-20)	SB-7 (6-8)	SB-7 (18-20)	SB-8 (6-8)	SB-8 (18-20)
Lab Sample ID	Part 375	Part 375	L1316206-01	L1316206-02	L1316206-03	L1316206-04	L1316206-05	L1316206-06	L1316206-07	L1316206-08	L1316206-13	L1316206-14	L1316298-01	L1316298-02	L1316298-03	L1316298-04	L1316298-05	L1316298-06
Date Sampled	Unrestricted	Restricted	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013
Dilution	SCO	Residential SCO	2/1 *	2/1 *	2/1 *	2/1 *	2/1 *	2/1 *	2/1 *	2/1 *	2/1 *	2/1 *	2/1 *	2/1 *	2/1 *	2/1 *	2/1 *	2/1 *
mg/kg	mg/kg	mg/kg																
Aluminum	**NS**	**NS**	5,900	2,400	3,000	6,000	3,900	4,500	11,000	2,500	7,500	2,400	5,500	3,700	4,200	2,800	5,600	4,800
Antimony	**NS**	**NS**	4.4 U	4.6 U	4 U	5.1 U	4.2 U	4.4 U	5.4 U	4.3 U	4.6 J	4.4 U	4.4 U	4.4 U	3.4 J	4.4 U	5 U	4.5 U
Arsenic	**13**	**16**	5.5	2.6	2.5	7.4	8.6	2.1	5.6	0.99	**15**	2.5	2.6	1.3	2.6	1.4	5.9	1.7
Barium	**350**	**400**	52	22	33	48	54	30	120	26	**950**	21	43	28	41	22	160	41
Beryllium	**7.2**	**72**	0.31 J	0.13 J	0.15 J	0.37 J	0.19 J	0.27 J	0.55	0.16 J	0.39 J	0.14 J	0.36 J	0.24 J	0.29 J	0.23 J	0.35 J	0.36 J
Cadmium	**2.5**	**4.3**	0.47 J	0.8 J	0.31 J	1.3	0.41 J	0.34 J	0.61 J	0.22 J	**11**	0.6 J	0.41 J	0.28 J	0.53 J	0.26 J	0.76 J	0.44 J
Calcium	**NS**	**NS**	3,800	1,600	3,200	3,500	6,700	2,500	3,400	3,000	21,000	2,700	1,300	680	3,200	840	2,300	1,500
Chromium	**30**	**180**	29	**46**	14	**98**	13	25	**55**	11	**44**	**72**	21	13	22	16	30	15
Cobalt	**NS**	**NS**	18	58	6	86	8.8	14	30	5	12	34	12	6.2	17	7.1	23	12
Copper	**50**	**270**	27	13	20	27	30	27	48	14	**160**	10	32	23	42	19	**55**	**55**
Iron	**NS**	**NS**	19,000	32,000	10,000	49,000	16,000	15,000	24,000	8,800	18,000	23,000	14,000	9,800	17,000	9,800	17,000	17,000
Lead	**63**	**400**	38	8.8	38	12	**86**	7.5	**160**	4.8	**5,800**	51	12	5.7	41	6.3	**380**	9
Magnesium	**NS**	**NS**	15,000	76,000	2,700	46,000	2,400	4,500	15,000	2,700	13,000	49,000	5,500	2,800	23,000	4,400	13,000	3,400
Manganese	**1,600**	**2,000**	230	580	140	890	130	270	290	840	330	430	230	200	360	380	340	310
Mercury	**0.18**	**0.81**	0.08 U	0.09 U	0.02 J	0.09 U	**0.28**	0.09 U	**0.19**	0.09 U	**0.45**	0.08 U	0.08 U	0.07 U	0.09 U	0.08 U	**0.19**	0.08 U
Nickel	**30**	**310**	**260**	**1,200**	**56**	**1,500**	**50**	**190**	**430**	**48**	**140**	**660**	**120**	**69**	**360**	**110**	**310**	**97**
Potassium	**NS**	**NS**	1,100	590	430	1,100	520	610	1,200	490	500	440	1,300	520	1,000	440	630	580
Selenium	**3.9**	**180**	1.8 U	1.8 U	1.6 U	2 U	0.48 J	1.8 U	2.2 U	1.7 U	0.59 J	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1 J	1.8 U
Silver	**2**	**180**	0.88 U	0.93 U	0.81 U	1 U	0.85 U	0.88 U	1.1 U	0.86 U	0.58 J	0.88 U	0.87 U	0.89 U	0.89 U	0.88 U	1 U	0.9 U
Sodium	**NS**	**NS**	460	90 J	97 J	140 J	280	95 J	120 J	60 J	180 J	79 J	110 J	57 J	100 J	100 J	370	270
Thallium	**NS**	**NS**	1.8 U	1.8 U	1.6 U	2 U	1.7 U	1.8 U	2.2 U	1.7 U	2.5 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	2 U	1.8 U
Vanadium	**NS**	**NS**	22	11	19	25	21	18	29	14	32	11	24	16	20	14	18	34
Zinc	**109**	**10,000**	42	25	44	98	**130**	53	100	58	**2,600**	72	32	19	48	17	**180**	32

Note: * = The second Dilution Rate is for Mercury.

Table 4
475 Bay Street
Staten Island, NY
Subsurface Investigation Soil Analytical Results
Poychloinated Biphenyls (PCBs) and Pesticides

Client ID	NYSDEC	NYSDEC	SB-1 (7-9)	SB-1 (15-17)	SB-2 (0-2)	SB-2 (18-20)	SB-3 (0-2)	SB-3 (18-20)	SB-4 (7-9)	SB-4 (18-20)	SB-5 (0-2)	SB-5 (18-20)	SB-6 (7-9)	SB-6 (18-20)	SB-7 (6-8)	SB-7 (18-20)	SB-8 (6-8)	SB-8 (18-20)
Lab Sample ID	Part 375	Part 375	L1316206-01	L1316206-02	L1316206-03	L1316206-04	L1316206-05	L1316206-06	L1316206-07	L1316206-08	L1316206-13	L1316206-14	L1316298-01	L1316298-02	L1316298-03	L1316298-04	L1316298-05	L1316298-06
Date Sampled	Unrestricted	Restricted	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/20/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013
Dilution	SCO	Residential SCO	1	1	1	1	1/20 *	1	1/20 *	1	1/10 *	1/20 *	1	1	1	1	1/20 *	1
Polychlorinated Biphenyls - mg/kg	mg/kg	mg/kg																
Aroclor 1016	NS	NS	0.0378 U	0.0392 U	0.0342 U	0.0435 U	0.0363 U	0.0386 U	0.0465 U	0.0369 U	0.0523 U	0.0357 U	0.0371 U	0.0366 U	0.0373 U	0.0372 U	0.0408 U	0.0362 U
Aroclor 1221	NS	NS	0.0378 U	0.0392 U	0.0342 U	0.0435 U	0.0363 U	0.0386 U	0.0465 U	0.0369 U	0.0523 U	0.0357 U	0.0371 U	0.0366 U	0.0373 U	0.0372 U	0.0408 U	0.0362 U
Aroclor 1232	NS	NS	0.0378 U	0.0392 U	0.0342 U	0.0435 U	0.0363 U	0.0386 U	0.0465 U	0.0369 U	0.0523 U	0.0357 U	0.0371 U	0.0366 U	0.0373 U	0.0372 U	0.0408 U	0.0362 U
Aroclor 1242	NS	NS	0.0378 U	0.0392 U	0.0342 U	0.0435 U	0.0363 U	0.0386 U	0.0465 U	0.0369 U	0.174	0.0357 U	0.0371 U	0.0366 U	0.0373 U	0.0372 U	0.0408 U	0.0362 U
Aroclor 1248	NS	NS	0.0378 U	0.0392 U	0.0342 U	0.0435 U	0.0363 U	0.0386 U	0.0465 U	0.0369 U	0.0523 U	0.0357 U	0.0371 U	0.0366 U	0.0373 U	0.0372 U	0.0408 U	0.0362 U
Aroclor 1254	NS	NS	0.0378 U	0.0392 U	0.0342 U	0.0435 U	0.0363 U	0.0386 U	0.0465 U	0.0369 U	0.0523 U	0.0357 U	0.0371 U	0.0366 U	0.0373 U	0.0372 U	0.0408 U	0.0362 U
Aroclor 1260	NS	NS	0.0378 U	0.0392 U	0.0342 U	0.0435 U	0.0363 U	0.0386 U	0.0465 U	0.0369 U	0.0523 U	0.0357 U	0.0371 U	0.0366 U	0.0373 U	0.0372 U	0.0408 U	0.0362 U
Aroclor 1262	NS	NS	0.0378 U	0.0392 U	0.0342 U	0.0435 U	0.0363 U	0.0386 U	0.0465 U	0.0369 U	0.0523 U	0.0357 U	0.0371 U	0.0366 U	0.0373 U	0.0372 U	0.0408 U	0.0362 U
Aroclor 1268	NS	NS	0.0378 U	0.0392 U	0.0342 U	0.0435 U	0.0363 U	0.0386 U	0.0465 U	0.0369 U	0.0523 U	0.0357 U	0.0371 U	0.0366 U	0.0373 U	0.0372 U	0.0408 U	0.0362 U
Total PCBs	**0.1**	**1**	ND	ND	ND	ND	ND	ND	ND	ND	**0.174**	ND	ND	ND	ND	ND	ND	ND
Pesticides - mg/kg																		
4,4'-DDD	**0.0033**	**13**	0.00184 U	0.00184 U	0.00163 U	0.00212 U	0.0344 U	0.00183 U	0.0451 U	0.0018 U	0.0251 U	0.0353 U	0.00173 U	0.00181 U	0.00174 U	0.00177 U	0.0406 U	0.0018 U
4,4'-DDE	**0.0033**	**8.9**	0.00184 U	0.00184 U	0.00163 U	0.00212 U	0.0344 U	0.00183 U	**0.0113** J	0.0018 U	0.0251 U	**0.00882** J	0.00173 U	0.00181 U	0.00174 U	0.00177 U	0.0406 U	0.0018 U
4,4'-DDT	**0.0033**	**7.9**	0.00345 U	0.00344 U	0.00306 U	0.00398 U	**0.0845**	0.00343 U	**0.0646** J	0.00337 U	**0.0537**	**0.0459** J	0.00325 U	0.0034 U	0.00326 U	0.00332 U	0.0761 U	0.00338 U
Aldrin	**0.005**	**0.097**	0.00184 U	0.00184 U	0.00163 U	0.00212 U	0.0344 U	0.00183 U	0.0451 U	0.0018 U	0.0251 U	0.0353 U	0.00173 U	0.00181 U	0.00174 U	0.00177 U	0.0406 U	0.0018 U
Alpha-BHC	**0.02**	**0.48**	0.000768 U	0.000765 U	0.00068 U	0.000885 U	0.0143 U	0.000763 U	0.0188 U	0.00075 U	0.0104 U	0.0147 U	0.000723 U	0.000755 U	0.000725 U	0.000737 U	0.0169 U	0.000752 U
Beta-BHC	**0.036**	**0.36**	0.00184 U	0.00184 U	0.00163 U	0.00212 U	0.0344 U	0.00183 U	0.0451 U	0.0018 U	0.0251 U	0.0353 U	0.00173 U	0.00181 U	0.00174 U	0.00177 U	0.0406 U	0.0018 U
Chlordane	**0.094**	**4.2**	0.015 U	0.0149 U	0.0133 U	0.0172 U	0.28 U	0.0149 U	0.366 U	0.0146 U	0.204 U	0.287 U	0.0141 U	0.0147 U	0.0141 U	0.0144 U	0.33 U	0.0146 U
cis-Chlordane	**0.094**	**4.2**	0.0023 U	0.0023 U	0.00204 U	0.00265 U	0.043 U	0.00229 U	0.0563 U	0.00225 U	0.0313 U	0.0441 U	0.00217 U	0.00227 U	0.00217 U	0.00221 U	0.0507 U	0.00226 U
Delta-BHC	**0.04**	**100**	0.00184 U	0.00184 U	0.00163 U	0.00212 U	0.0344 U	0.00183 U	0.0451 U	0.0018 U	0.0251 U	0.0353 U	0.00173 U	0.00181 U	0.00174 U	0.00177 U	0.0406 U	0.0018 U
Dieldrin	**0.005**	**0.2**	0.00115 U	0.00115 U	0.00102 U	0.00133 U	0.0215 U	0.00114 U	0.0282 U	0.00112 U	0.0157 U	0.0221 U	0.00108 U	0.00113 U	0.00109 U	0.0011 U	0.0254 U	0.00113 U
Endosulfan I	**2.4**	**24**	0.00184 U	0.00184 U	0.00163 U	0.00212 U	0.0344 U	0.00183 U	0.0451 U	0.0018 U	0.0251 U	0.0353 U	0.00173 U	0.00181 U	0.00174 U	0.00177 U	0.0406 U	0.0018 U
Endosulfan II	**2.4**	**24**	0.00184 U	0.00184 U	0.00163 U	0.00212 U	0.0344 U	0.00183 U	0.0451 U	0.0018 U	0.0251 U	0.0353 U	0.00173 U	0.00181 U	0.00174 U	0.00177 U	0.0406 U	0.0018 U
Endosulfan sulfate	**2.4**	**24**	0.000768 U	0.000765 U	0.00068 U	0.000885 U	0.0143 U	0.000763 U	0.0188 U	0.00075 U	0.0104 U	0.0147 U	0.000723 U	0.000755 U	0.000725 U	0.000737 U	0.0169 U	0.000752 U
Endrin	**0.014**	**11**	0.000768 U	0.000765 U	0.00068 U	0.000885 U	0.0143 U	0.000763 U	0.0188 U	0.00075 U	0.0104 U	0.0147 U	0.000723 U	0.000755 U	0.000725 U	0.000737 U	0.0169 U	0.000752 U
Endrin ketone	**NS**	**NS**	0.00184 U	0.00184 U	0.00163 U	0.00212 U	0.0344 U	0.00183 U	0.0451 U	0.0018 U	0.0251 U	0.0353 U	0.00173 U	0.00181 U	0.00174 U	0.00177 U	0.0406 U	0.0018 U
Heptachlor	**0.042**	**2.1**	0.000921 U	0.000918 U	0.000816 U	0.00106 U	0.0172 U	0.000915 U	0.0225 U	0.000899 U	0.0125 U	0.0176 U	0.000867 U	0.000906 U	0.00087 U	0.000885 U	0.0203 U	0.000902 U
Heptachlor epoxide	**NS**	**NS**	0.00345 U	0.00344 U	0.00306 U	0.00398 U	0.0646 U	0.00343 U	0.0845 U	0.00337 U	0.047 U	0.0662 U	0.00325 U	0.0034 U	0.00326 U	0.00332 U	0.0761 U	0.00338 U
Lindane	**0.1**	**1.3**	0.000768 U	0.000765 U	0.00068 U	0.000885 U	0.0143 U	0.000763 U	0.0188 U	0.00075 U	0.0104 U	0.0147 U	0.000723 U	0.000755 U	0.000725 U	0.000737 U	0.0169 U	0.000752 U
Methoxychlor	**NS**	**NS**	0.00345 U	0.00344 U	0.00306 U	0.00398 U	0.0646 U	0.00343 U	0.0845 U	0.00337 U	0.047 U	0.0662 U	0.00325 U	0.0034 U	0.00326 U	0.00332 U	0.0761 U	0.00338 U
Toxaphene	**NS**	**NS**	0.0345 U	0.0344 U	0.0306 U	0.0398 U	0.646 U	0.0343 U	0.845 U	0.0337 U	0.47 U	0.662 U	0.0325 U	0.034 U	0.0326 U	0.0332 U	0.761 U	0.0338 U
trans-Chlordane	**NS**	**NS**	0.0023 U	0.0023 U	0.00204 U	0.00265 U	0.043 U	0.00229 U	0.0563 U	0.00225 U	0.0313 U	0.0441 U	0.00217 U	0.00227 U	0.00217 U	0.00221 U	0.0507 U	0.00226 U

Note: * = The second Dilution Rate is for Pesticides.

Table 5
475 Bay Street
Staten Island, NY
Subsurface Investigation Groundwater Analytical Results
Volatile Organic Compounds

Client ID Lab Sample ID Date Sampled µg/L	NYSDEC Class GA Ambient Standard µg/L	TW-1 L1316206-09 8/20/2013	TW-2 L1316206-10 8/20/2013	TW-3 L1316206-11 8/20/2013	TW-4 L1316206-12 8/20/2013	TB L1316298-07 8/21/2013
1,1,1,2-Tetrachloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	2 U	2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-chloropropane	0.04	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	0.0006	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethylbenzene	NS	2 U	2 U	2 U	2 U	2 U
1,4-Dioxane	NS	250 U	250 U	250 U	250 U	250 U
2,2-Dichloropropane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Butanone	50	5 U	5 U	5 U	5 U	5 U
2-Hexanone	50	5 U	5 U	5 U	5 U	5 U
4-Ethyltoluene	NS	2 U	2 U	2 U	2 U	2 U
4-Methyl-2-pentanone	NS	5 U	5 U	5 U	5 U	5 U
Acetone	50	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	5 U	5 U	5 U	5 U	5 U
Benzene	1	0.23 J	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50	2 U	2 U	2 U	2 U	2 U
Bromomethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Carbon disulfide	60	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	5	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	5 U	5 U	5 U	5 U	5 U
Ethyl ether	NS	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl tert butyl ether	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methylene chloride	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
n-Butylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
n-Propylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Chlorotoluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p/m-Xylene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p-Chlorotoluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p-Isopropyltoluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
sec-Butylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
tert-Butylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	5	0.31 J	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,4-Dichloro-2-butene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethene	5	0.43 J	0.19 J	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl acetate	NS	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U

Table 6
475 Bay Street
Staten Island, NY
Subsurface Investigation GroundwaterAnalytical Results
Semivolatile Organic Compounds

Client ID Lab Sample ID Date Sampled µg/L	NYSDEC Class GA Ambient Standard µg/L	TW-1 L1316206-09 8/20/2013	TW-2 L1316206-10 8/20/2013	TW-3 L1316206-11 8/20/2013	TW-4 L1316206-12 8/20/2013
1,2,4,5-Tetrachlorobenzene	5	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	3	2 U	2 U	2 U	2 U
1,3-Dichlorobenzene	3	2 U	2 U	2 U	2 U
1,4-Dichlorobenzene	3	2 U	2 U	2 U	2 U
2,4,5-Trichlorophenol	NS	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	NS	5 U	5 U	5 U	5 U
2,4-Dichlorophenol	5	5 U	5 U	5 U	5 U
2,4-Dimethylphenol	50	5 U	5 U	5 U	5 U
2,4-Dinitrophenol	10	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	5	5 U	5 U	5 U	5 U
2,6-Dinitrotoluene	5	5 U	5 U	5 U	5 U
2-Chloronaphthalene	10	0.2 U	0.2 U	0.2 U	0.2 U
2-Chlorophenol	NS	2 U	2 U	2 U	2 U
2-Methylnaphthalene	NS	0.08 J	0.2 U	0.2 U	0.2 U
2-Methylphenol	NS	5 U	5 U	5 U	5 U
2-Nitroaniline	5	5 U	5 U	5 U	5 U
2-Nitrophenol	NS	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	5	5 U	5 U	5 U	5 U
3-Methylphenol/4-Methylphenol	NS	5 U	5 U	5 U	5 U
3-Nitroaniline	5	5 U	5 U	5 U	5 U
4,6-Dinitro-o-cresol	NS	10 U	10 U	10 U	10 U
4-Bromophenyl phenyl ether	NS	2 U	2 U	2 U	2 U
4-Chloroaniline	5	5 U	5 U	5 U	5 U
4-Chlorophenyl phenyl ether	NS	2 U	2 U	2 U	2 U
4-Nitroaniline	5	5 U	5 U	5 U	5 U
4-Nitrophenol	NS	10 U	10 U	10 U	10 U
Acenaphthene	20	0.12 J	0.2 U	0.2 U	0.07 J
Acenaphthylene	NS	0.19 J	0.2 U	0.2 U	0.2 U
Acetophenone	NS	5 U	5 U	5 U	5 U
Anthracene	50	0.34	0.2 U	0.2 U	0.2 U
Benzo(a)anthracene	0.002	**0.93**	0.2 U	0.2 U	0.2 U
Benzo(a)pyrene	ND	**0.87**	0.2 U	0.2 U	0.2 U
Benzo(b)fluoranthene	0.002	**1**	0.2 U	0.2 U	0.2 U
Benzo(ghi)perylene	NS	0.62	0.2 U	0.2 U	0.2 U
Benzo(k)fluoranthene	0.002	**0.46**	0.2 U	0.2 U	0.2 U
Benzoic Acid	NS	50 U	50 U	50 U	50 U
Benzyl Alcohol	NS	2 U	2 U	2 U	2 U
Biphenyl	5	2 U	2 U	2 U	2 U
Bis(2-chloroethoxy)methane	5	5 U	5 U	5 U	5 U
Bis(2-chloroethyl)ether	1	2 U	2 U	2 U	2 U
Bis(2-chloroisopropyl)ether	NS	2 U	2 U	2 U	2 U
Bis(2-Ethylhexyl)phthalate	5	3 U	3 U	3 U	3 U
Butyl benzyl phthalate	50	5 U	5 U	5 U	5 U
Carbazole	NS	2 U	2 U	2 U	2 U
Chrysene	0.002	**1.1**	0.2 U	0.2 U	0.2 U
Dibenzo(a,h)anthracene	NS	0.15 J	0.2 U	0.2 U	0.2 U
Dibenzofuran	NS	2 U	2 U	2 U	2 U
Diethyl phthalate	50	5 U	5 U	5 U	5 U
Dimethyl phthalate	50	5 U	5 U	5 U	5 U
Di-n-butylphthalate	50	5 U	5 U	5 U	5 U
Di-n-octylphthalate	50	5 U	5 U	5 U	5 U
Fluoranthene	50	2.1	0.2 U	0.2 U	0.07 J
Fluorene	50	0.24	0.2 U	0.2 U	0.2 U
Hexachlorobenzene	0.04	0.8 U	0.8 U	0.8 U	0.8 U
Hexachlorobutadiene	0.5	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	5	20 U	20 U	20 U	20 U
Hexachloroethane	5	0.8 U	0.8 U	0.8 U	0.8 U
Indeno(1,2,3-cd)Pyrene	0.002	**0.54**	0.2 U	0.2 U	0.2 U
Isophorone	50	5 U	5 U	5 U	5 U
Naphthalene	10	0.17 J	0.2 U	0.2 U	0.2 U
Nitrobenzene	0.4	2 U	2 U	2 U	2 U
NitrosoDiPhenylAmine(NDPA)/DPA	50	2 U	2 U	2 U	2 U
n-Nitrosodi-n-propylamine	NS	5 U	5 U	5 U	5 U
P-Chloro-M-Cresol	NS	2 U	2 U	2 U	2 U
Pentachlorophenol	NS	0.8 U	0.8 U	0.8 U	0.8 U
Phenanthrene	50	1.9	0.2 U	0.2 U	0.18 J
Phenol	NS	5 U	5 U	5 U	5 U
Pyrene	50	2.1	0.2 U	0.2 U	0.2 U

Table 7
475 Bay Street
Staten Island, NY
Subsurface Investigation Groundwater Analytical Results
Total and Dissolved Metals

Client ID Lab Sample ID Date Sampled Dilution Total Metals - µg/L	NYSDEC Class GA Ambient Standard µg/L	TW-1 L1316206-09 8/20/2013 1/5/10/20/40 *	TW-2 L1316206-10 8/20/2013 1/5/10/20/200 *	TW-3 L1316206-11 8/20/2013 1/5/20/200 *	TW-4 L1316206-12 8/20/2013 1/5/10/20/200 *
Aluminum	**NS**	13,800	27,100	40,200	59,700
Antimony	**3**	2.41 J	5 U	5 U	5 U
Arsenic	**25**	17.01	14.72	17.03	21.97
Barium	**1,000**	730	411.8	**1,462**	**1,994**
Beryllium	**3**	**3.11**	2.66	**7.05**	**8.04**
Cadmium	**5**	1.02	0.55 J	1.07	2.12
Calcium	**NS**	212,000	127,000	131,000	194,000
Chromium	**50**	**158**	**160.6**	**129.4**	**202**
Cobalt	**NS**	113.8	99	119.7	214.8
Copper	**200**	125.6	97.5	**223.5**	**469.5**
Iron	**300+**	**67,700**	**78,100**	**139,000**	**235,000**
Lead	**25**	**894.5**	**184.9**	**116.1**	**322.8**
Magnesium	**35,000**	**94,600**	**51,100**	**117,000**	**166,000**
Manganese	**300+**	**5,924**	**4,746**	**12,480**	**18,890**
Mercury	**0.7**	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	**100**	**1,186**	**1,157**	**1,174**	**3,342**
Potassium	**NS**	16,400	12,600	17,200	24,000
Selenium	**10**	5.22 J	3.28 J	6.07 J	**10.1** J
Silver	**50**	2 U	2 U	2 U	0.56 J
Sodium	**20,000**	**119,000**	**25,700**	**40,300**	**73,400**
Thallium	**0.5**	0.27 J	0.46 J	0.43 J	**0.85** J
Vanadium	**NS**	98.25	82.6	163.2	179.2
Zinc	**2,000**	303.6	149.6	304	667
Dissolved Metals - µg/L					
Aluminum	**NS**	15.4	44.3	9.52 J	25.1
Antimony	**3**	0.68 J	0.34 J	0.33 J	0.97 J
Arsenic	**25**	4.66	5.6	8.22	5.71
Barium	**1,000**	261.2	140.5	215.3	393.7
Beryllium	**3**	0.5 U	0.5 U	0.5 U	0.5 U
Cadmium	**5**	0.2 U	0.2 U	0.2 U	0.2 U
Calcium	**NS**	184,000	110,000	105,000	152,000
Chromium	**50**	3.13	2.09	3.76	3.51
Cobalt	**NS**	9.23	4.03	1.79	1.21
Copper	**200**	0.83 J	0.69 J	0.8 J	0.98 J
Iron	**300+**	**5,830**	**2,660**	**13,000**	**19,700**
Lead	**25**	0.46 J	0.63 J	1 U	0.75 J
Magnesium	**35,000**	**70,600**	24,300	**93,500**	**90,800**
Manganese	**300+**	**3,214**	**2,639**	**4,400**	**3,077**
Mercury	**0.7**	0.33 U	0.2 U	0.2 U	0.2 U
Nickel	**100**	46.67	25.1	8.15	10.45
Potassium	**NS**	13,800	9,340	10,300	13,400
Selenium	**10**	2.39 J	0.79 J	1 J	2.05 J
Silver	**50**	0.1 J	0.4 U	0.4 U	0.4 U
Sodium	**20,000**	**126,000**	**25,700**	**41,200**	**76,600**
Thallium	**0.5**	0.5 U	0.5 U	0.5 U	0.5 U
Vanadium	**NS**	1.13 J	0.7 J	1.22 J	1.06 J
Zinc	**2,000**	15.69	3.77 J	4.62 J	7.75 J

Note: * = Dilution Rates vary.

Table 8
475 Bay Street
Staten Island, NY
Subsurface Investigation Groundwater Analytical Results
Polychlorinated Biphenyls (PCBs) and Pesticides

Client ID Lab Sample ID Date Sampled Polychlorinated Biphenyls - µg/L	NYSDEC Class GA Ambient Standard µg/L	TW-1 L1316206-09 8/20/2013	TW-2 L1316206-10 8/20/2013	TW-3 L1316206-11 8/20/2013	TW-4 L1316206-12 8/20/2013
Aroclor 1016	**NS**	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1221	**NS**	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1232	**NS**	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1242	**NS**	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1248	**NS**	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1254	**NS**	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1260	**NS**	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1262	**NS**	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1268	**NS**	0.083 U	0.083 U	0.083 U	0.083 U
Total PCBs	**0.09**	ND	ND	ND	ND

Pesticides - µg/L

4,4'-DDD	**0.3**	0.04 U	0.04 U	0.04 U	0.04 U
4,4'-DDE	**0.2**	0.04 U	0.04 U	0.04 U	0.04 U
4,4'-DDT	**0.2**	0.04 U	0.04 U	0.04 U	0.04 U
Aldrin	**ND**	0.02 U	0.02 U	0.02 U	0.02 U
Alpha-BHC	**0.01**	0.02 U	0.02 U	0.02 U	0.02 U
Beta-BHC	**0.04**	0.02 U	0.02 U	0.02 U	0.02 U
Chlordane	**0.05**	0.2 U	0.2 U	0.2 U	0.2 U
cis-Chlordane	**0.05**	0.02 U	0.02 U	0.02 U	0.02 U
Delta-BHC	**0.04**	0.02 U	0.02 U	0.02 U	0.02 U
Dieldrin	**0.004**	0.04 U	0.04 U	0.04 U	0.04 U
Endosulfan I	**NS**	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan II	**NS**	0.04 U	0.04 U	0.04 U	0.04 U
Endosulfan sulfate	**NS**	0.04 U	0.04 U	0.04 U	0.04 U
Endrin	**ND**	0.04 U	0.04 U	0.04 U	0.04 U
Endrin ketone	**5**	0.04 U	0.04 U	0.04 U	0.04 U
Heptachlor	**0.04**	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	**0.03**	0.02 U	0.02 U	0.02 U	0.02 U
Lindane	**0.05**	0.02 U	0.02 U	0.02 U	0.02 U
Methoxychlor	**35**	0.2 U	0.2 U	0.2 U	0.2 U
Toxaphene	**0.06**	0.2 U	0.2 U	0.2 U	0.2 U
trans-Chlordane	**0.05**	0.02 U	0.02 U	0.02 U	0.02 U

Table 9
475 Bay Street
Staten Island, NY
Subsurface Investigation Soil Vapor Analytical Results
Volatile Organic Compounds

Client ID Lab Sample ID Date Sampled Dilution µg/m³	NYSDOH 2003 Soil Vapor Intrusion Air Guideline Value µg/m³	NYSDOH 2003 Soil Vapor Indoor Upper Fence µg/m³	EPA 2001 BASE 90th percentile µg/m³	SV-1 L1316261-01 8/21/2013 10	SV-2 L1316261-02 8/21/2013 10	SV-3 L1316261-04 8/21/2013 10/54.52 *	SV-4 L1316261-03 8/21/2013 10
1,1,1-Trichloroethane	NS	2.5	20.6	10.9 U	10.9 U	10.9 U	10.9 U
1,1,2,2-Tetrachloroethane	NS	0.4	NS	13.7 U	13.7 U	13.7 U	13.7 U
1,1,2-Trichloroethane	NS	0.4	<1.5	10.9 U	10.9 U	10.9 U	10.9 U
1,1-Dichloroethane	NS	0.4	<0.7	8.09 U	8.09 U	8.09 U	8.09 U
1,1-Dichloroethene	NS	0.4	<1.4	7.93 U	7.93 U	7.93 U	7.93 U
1,2,4-Trichlorobenzene	NS	0.5	<6.8	14.8 U	14.8 U	14.8 U	14.8 U
1,2,4-Trimethylbenzene	NS	9.8	9.5	11.4	9.83 U	9.83 U	14.9
1,2-Dibromoethane	NS	0.4	<1.5	15.4 U	15.4 U	15.4 U	15.4 U
1,2-Dichlorobenzene	NS	0.5	<1.2	12 U	12 U	12 U	12 U
1,2-Dichloroethane	NS	0.4	<0.9	8.09 U	8.09 U	8.09 U	8.09 U
1,2-Dichloropropane	NS	0.4	<1.6	9.24 U	9.24 U	9.24 U	9.24 U
1,3,5-Trimethylbenzene	NS	3.9	3.7	9.83 U	9.83 U	9.83 U	9.83 U
1,3-Butadiene	NS	0.5	<3.0	4.42 U	7.9	4.42 U	4.42 U
1,3-Dichlorobenzene	NS	0.5	<2.4	12 U	12 U	12 U	12 U
1,4-Dichlorobenzene	NS	1.2	5.5	12 U	12 U	12 U	12 U
1,4-Dioxane	NS	NS	NS	7.21 U	7.21 U	7.21 U	7.21 U
2,2,4-Trimethylpentane	NS	5	NS	9.34 U	9.34 U	9.34 U	9.34 U
2-Butanone	NS	16	12	62.5	43.9	157	16.6
2-Hexanone	NS	NS	NS	12.1	8.2 U	21.9	8.2 U
3-Chloropropene	NS	NS	NS	6.26 U	6.26 U	6.26 U	6.26 U
4-Ethyltoluene	NS	NS	3.6	9.83 U	9.83 U	9.83 U	9.83 U
4-Methyl-2-pentanone	NS	1.9	6	8.2 U	8.2 U	8.2 U	8.2 U
Acetone	NS	115	98.9	534	846	3,180	929
Benzene	NS	13	9.4	7.57	6.9	19.9	6.39 U
Benzyl chloride	NS	NS	<6.8	10.4 U	10.4 U	10.4 U	10.4 U
Bromodichloromethane	NS	NS	NS	13.4 U	13.4 U	13.4 U	13.4 U
Bromoform	NS	NS	NS	20.7 U	20.7 U	20.7 U	20.7 U
Bromomethane	NS	0.5	<1.7	7.77 U	7.77 U	7.77 U	7.77 U
Carbon disulfide	NS	NS	4.2	34.6	18.1	10.2	6.23 U
Carbon tetrachloride	NS	1.3	<1.3	28.9	12.6 U	12.6 U	12.6 U
Chlorobenzene	NS	0.4	<0.9	9.21 U	9.21 U	9.21 U	9.21 U
Chloroethane	NS	0.4	<1.1	5.28 U	5.28 U	5.28 U	5.28 U
Chloroform	NS	1.2	1.1	9.77 U	20.6	9.77 U	9.77 U
Chloromethane	NS	4.2	3.7	4.13 U	4.13 U	4.13 U	4.13 U
cis-1,2-Dichloroethene	NS	0.4	<1.9	7.93 U	7.93 U	7.93 U	7.93 U
cis-1,3-Dichloropropene	NS	0.4	<2.3	9.08 U	9.08 U	9.08 U	9.08 U
Cyclohexane	NS	6.3	NS	6.88 U	11.3	24	29.6
Dibromochloromethane	NS	NS	NS	17 U	17 U	17 U	17 U
Dichlorodifluoromethane	NS	10	16.5	9.89 U	9.89 U	9.89 U	9.89 U
Ethanol	NS	1300	210	47.1 U	47.1 U	108	47.1 U
Ethyl Acetate	NS	NS	5.4	18 U	18 U	18 U	18 U
Ethylbenzene	NS	6.4	5.7	10.3	8.69 U	8.69 U	8.69 U
Freon-113	NS	2.5	3.5	15.3 U	15.3 U	15.3 U	15.3 U
Freon-114	NS	0.4	NS	14 U	14 U	14 U	14 U
Heptane	NS	18	NS	9.84	9.47	20.3	13.1
Hexachlorobutadiene	NS	0.5	<6.8	21.3 U	21.3 U	21.3 U	21.3 U
Isopropanol	NS	NS	250	12.3 U	12.3 U	18.4	12.3 U
Methyl tert butyl ether	NS	14	11.5	7.21 U	7.21 U	7.21 U	7.21 U
Methylene chloride	60	16	10	34.7 U	34.7 U	34.7 U	34.7 U
n-Hexane	NS	14	10.2	12.3	18.5	46.2	51.1
o-Xylene	NS	7.1	7.9	17.2	12.9	11.1	17.4
p/m-Xylene	NS	11	22.2	32.8	27.5	23.8	31.4
Propylene	NS	NS	NS	51.1	482	2,980	35.5
Styrene	NS	1.4	1.9	8.52 U	8.52 U	8.52 U	8.52 U
Tetrachloroethene	100	2.5	15.9	78	13.6 U	13.6 U	13.6 U
Tetrahydrofuran	NS	0.8	NS	5.9 U	5.9 U	5.9 U	5.9 U
Toluene	NS	57	43	23.2	20.5	28.3	22
trans-1,2-Dichloroethene	NS	NS	NS	7.93 U	7.93 U	7.93 U	7.93 U
trans-1,3-Dichloropropene	NS	NC	<1.3	9.08 U	9.08 U	9.08 U	9.08 U
Trichloroethene	5	0.5	4.2	10.7 U	10.7 U	10.7 U	10.7 U
Trichlorofluoromethane	NS	12	18.1	11.2 U	11.2 U	11.2 U	11.2 U
Vinyl acetate	NS	NS	NS	7.04 U	7.04 U	7.04 U	7.04 U
Vinyl bromide	NS	NS	NS	8.74 U	8.74 U	8.74 U	8.74 U
Vinyl chloride	NS	0.4	<1.9	5.11 U	5.11 U	5.11 U	5.11 U

Note: * = The Dilution Rate for Propylene is 54.52.

Notes
475 Bay Street
Staten Island, NY
Subsurface Investigation

GENERAL

NS : No soil cleanup objective listed.

ND : No Detect

U : The analyte was not detected at the indicated concentration.

J : The concentration given is an estimated value.

SOIL

Exceedences of Part 375 Unrestricted SCOs are highlighted in bold font.

Exceedences of Part 375 Restricted Residential SCOs are highlighted in gray.

Part 375 Soil Cleanup Objectives : Soil Clean-up Objectives listed in NYSDEC (New York State Department of Environmental Conservation) "Part 375" Regulations (6 NYCRR Part 375).

mg/kg : milligrams per kilogram = parts per million (ppm)

GROUNDWATER

Exceedences of NYSDEC Class GA Ambient Standard are highlighted in bold font.

NYSDEC Class GA Ambient Standard : New York State Department of Environmental Conservation Technical and Operational Guidance Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.

µg/L : micrograms per Liter = parts per billion (ppb)

SOIL VAPOR

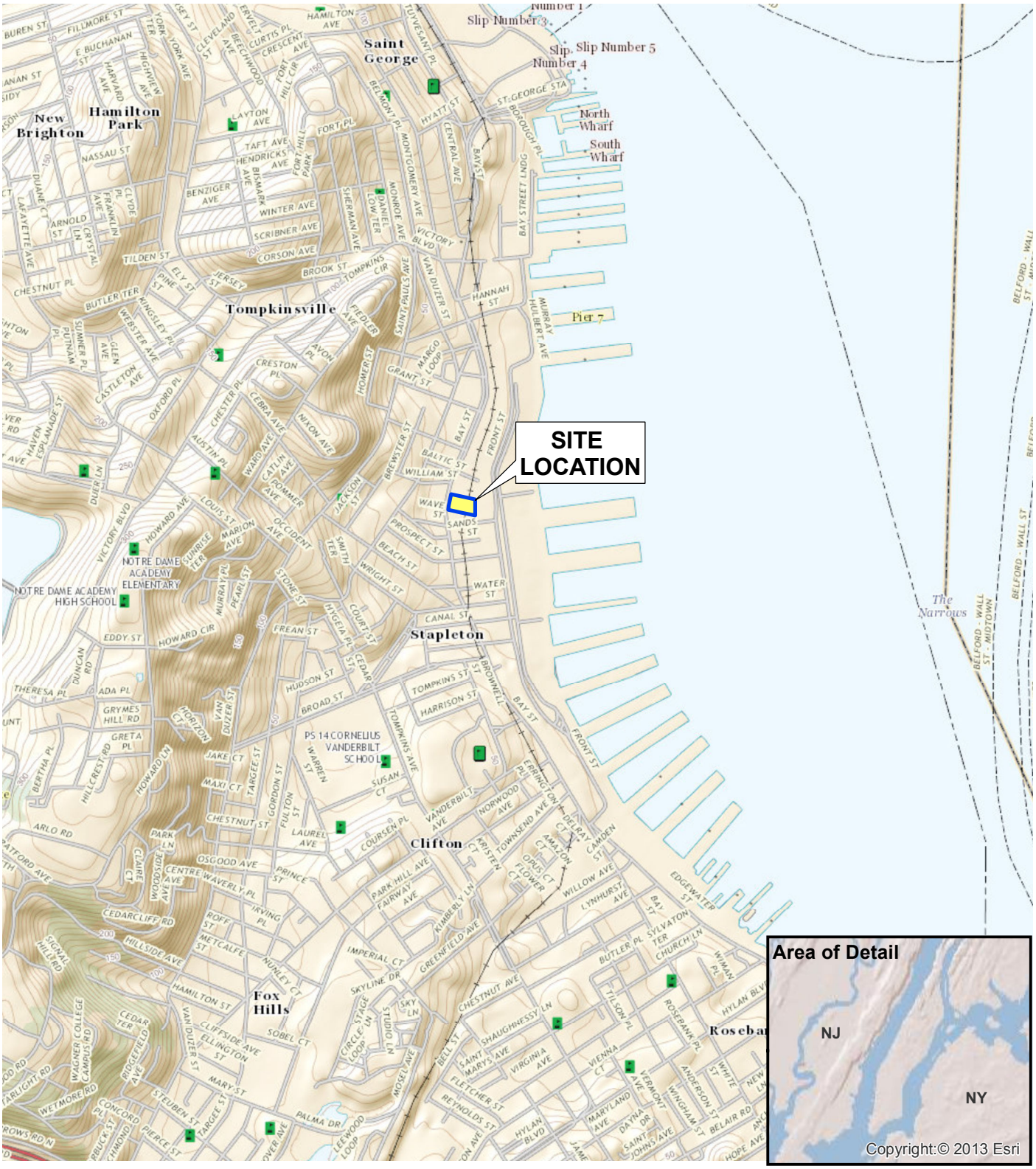
NYSDOH Soil Vapor Intrusion Air Guidance Value : NYSDOH Air Guideline Values (AGVs) presented in the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006 (“NYSDOH Vapor Intrusion Guidance Document”).

NYSDOH 2003 Soil Vapor Indoor Upper Fence : Upper fence indoor air values from "Table C1. NYSDOH 2003: Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes", published in the NYSDOH Soil Vapor Intrusion Guidance Document, Appendix C” (October 2006).

EPA 2001 BASE 90th percentile : 90th Percentile indoor air values from “Table C-2. EPA 2001: Building Assessment and Survey Evaluation (BASE) Database, SUMMA canister method”, published in the NYSDOH Soil Vapor Intrusion Guidance Document, Appendix C” (October 2006).

µg/m^3 : micrograms per cubic meter of air.

FIGURES



SOURCE
USGS 7.5 Minute Topographic Map
JERSEY CITY Quad 2011

0 1,000 2,000
Feet

475 Bay Street
Staten Island, New York

SITE LOCATION

AKRF
Environmental Consultants
440 Park Avenue South, New York, N.Y. 10016

DATE
8/22/2013

PROJECT No.
11802

FIGURE
1

©2013 AKRF, Inc. Environmental Consultants O:\Projects\11802 - 475 BAY STREET\Hazmat\11802 Fig 1 loc map.mxd



Map Source:
NYCDCP (NYC Dept. of City Planning) GIS database
GPR Survey dated April, 2013 by Hager-Richter Geoscience
1937 Certified Sanborn Map

0' 30' 60' 120'
SCALE IN FEET

LEGEND:

- GPR SURVEY UNKNOWN ANOMALY
- GPR SURVEY POSSIBLE BURIED METAL ANOMALY
- LIGHT POLE
- WATER VALVE
- FENCE
- WATER LINE
- ELECTRIC LINE
- GASOLINE TANKS SHOWN ON 1937 SANBORN MAP
- PROJECT SITE BOUNDARY
- LOT LINE
- BUILDING LINE
- SB-1/TW-1 SOIL BORING / GROUNDWATER SAMPLE
- SB-5 SOIL BORING SAMPLE
- SV-1 SOIL VAPOR SAMPLE

475 Bay Street
Staten Island, New York

SITE PLAN

AKRF
Environmental Consultants
440 Park Avenue South, New York, N.Y. 10016

DATE 9.17.2013
PROJECT No. 11802
SCALE as shown
FIGURE 2

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APPENDIX A

SAMPLING LOGS

SOIL BORING LOG

475 Bay Street

AKRF Project Number: 11802

Boring No. SB-1

Sheet 1 of 2

AKRF
440 Park Avenue South, New York, NY
Phone (212) 696-0670 Fax (212) 726-0942

Drilling Method:	**Geoprobe**
Sampling Method:	**5' Macrocore**
Driller :	**Eastern Env**
Sampler:	**A. Jordan**

Drilling

Start Time	8:40	**Finish Time**	9:10
Date	8/20/2013		
Weather:	Sunny, 75° F		

Depth (feet)	Recovery (Inches)	Surface Condition: ASPHALT	Odor	Moisture	PPM	NAPL	Samples Collected for Lab Analysis
1	17	ASPHALT, some Concrete (FILL).	ND	Dry	27.2	ND	
2					0.9		
3							
4							
5					ND		
6	27	Top 5": ASPHALT (FILL).	ND	Dry	ND	ND	
7							
8		Bottom 22": Brown SAND, some Silt, trace Clay, trace fine Gravel, trace Asphalt (FILL).	Petroleum-Like @ 8'	Moist @ 8'	ND	ND	SB-1 (7-9)
9							
10							
11	24	Brown SAND, some Clay, trace Silt, trace fine Gravel.	ND	Moist	ND	ND	
12							
13							
14							
15							
16	28	Brown SAND, some Clay, trace Silt, trace fine Gravel.	ND	Wet @ 15'	ND	ND	SB-1 (15-17)
17							
18				Wet			
19							
20							TW-1

Notes: End of boring at 25 feet below ground surface. Soil and groundwater samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL Metals (total and dissolved).

Groundwater encountered at 15' below grade.

PID = photoionization detector PPM= parts per million ND = Not Detected

SOIL BORING LOG

475 Bay Street

AKRF Project Number: 11802

Boring No. **SB-1**

Sheet 2 of 2

AKRF
440 Park Avenue South, New York, NY
Phone (212) 696-0670 Fax (212) 726-0942

Drilling Method:	**Geoprobe**
Sampling Method:	**5' Macrocore**
Driller :	**Eastern Env**
Sampler:	**A. Jordan**

Drilling

Start Time	8:40	**Finish Time**	9:10
Date	8/20/2013		
Weather:	Sunny, 75° F		

Depth (feet)	Recovery (Inches)	Surface Condition: ASPHALT	Odor	Moisture	PID	NAPL	Samples Collected for Lab Analysis
21	38	Top 35": Brown SAND, some Clay, trace Silt, trace fine Gravel.	ND	Wet	ND	ND	
22							
23							
24		Bottom 3": Weathered SCHIST.	ND	Wet	ND	ND	
25							
26		EOB @ 25' BGS.					
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

Notes: End of boring at 25 feet below ground surface. Soil and groundwater samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL Metals (total and dissolved).

Groundwater encountered at 15' below grade.

PID = photoionization detector PPM= parts per million ND = Not Detected

SOIL BORING LOG

475 Bay Street

AKRF Project Number: 11802

Boring No. **SB-2**

Sheet 1 of 1

AKRF
440 Park Avenue South, New York, NY
Phone (212) 696-0670 Fax (212) 726-0942

Drilling Method:	**Geoprobe**
Sampling Method:	**5' Macrocore**
Driller :	**Eastern Env**
Sampler:	**A. Jordan**

Drilling

Start Time	10:40	**Finish Time**	10:52
Date	8/20/2013		
Weather:	Sunny, 75° F		

Depth (feet)	Recovery (Inches)	Surface Condition: ASPHALT/ GRAVEL	Odor	Moisture	PID	NAPL	Samples Collected for Lab Analysis
1	17	Top 2": GRAVEL (FILL).	ND	Dry	ND	ND	SB-2 (0-2)
2							
3		Bottom 15": Dark brown SAND, some Asphalt, some fine Gravel, trace Silt (FILL).	ND	Dry	ND	ND	
4							
5							
6	21	Top 6": Red- brown SAND, trace fine Gravel.	ND	Dry	ND	ND	
7				Moist @ 7'			
8		Bottom 15": Brown SAND, trace Silt, trace Clay, trace fine Gravel.	ND	Moist	ND	ND	
9							
10							
11	37	Top 20": Brown SILT, some Sand, trace fine Gravel.	ND	Wet @ 11'	ND	ND	
12							
13							
14		Bottom 17": Black SAND, some Silt, trace fine Gravel.					
15							
16	36	Brown SAND, trace fine Gravel, trace Schist, trace Silt.	ND	Wet	ND	ND	
17							
18							
19							SB-2 (18-20)
20							TW-2

Notes: End of boring at 20 feet below ground surface. Soil and groundwater samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL Metals (total and dissolved).

Groundwater encountered at 11' below grade.

PID = photoionization detector ND = Not Detected

SOIL BORING LOG

475 Bay Street

AKRF Project Number: 11802

Boring No. **SB-3**

Sheet 1 of 1

AKRF
440 Park Avenue South, New York, NY
Phone (212) 696-0670 Fax (212) 726-0942

Drilling Method:	**Geoprobe**
Sampling Method:	**5' Macrocore**
Driller :	**Eastern Env**
Sampler:	**A. Jordan**

Drilling			
Start Time	11:35	**Finish Time**	11:50
Date	8/20/2013		
Weather:	Sunny, 75° F		

Depth (feet)	Recovery (Inches)	Surface Condition: ASPHALT/ GRAVEL	Odor	Moisture	PID	NAPL	Samples Collected for Lab Analysis
1	32	Top 2": GRAVEL (FILL).	ND	Dry	ND	ND	SB-3 (0-2)
2							
3		Bottom 30": Black SAND, trace Asphalt, trace fine Gravel, trace Silt (FILL).	ND	Dry	ND	ND	
4							
5							
6	32	Dark brown SAND, some fine Gravel, trace Silt.	ND	Dry	ND	ND	
7				Moist @ 7'			
8			ND	Moist	ND	ND	
9							
10							
11	42	Red- brown SILT, some Sand, trace Clay, trace fine Gravel.	ND	Wet @ 11' Wet	ND	ND	
12							
13							
14							
15							
16	47	Top 45": Red-brown SILT, some Sand, trace fine Gravel.	ND	Wet	ND	ND	
17							
18							
19		Bottom 2": Black SILT.	ND	Wet	ND	ND	SB-3 (18-20)
20							TW-3

Notes: End of boring at 20 feet below ground surface. Soil and groundwater samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL Metals (total and dissolved).

Groundwater encountered at 11' below grade.

PID = photoionization detector ND = Not Detected

SOIL BORING LOG

475 Bay Street

AKRF Project Number: 11802

Boring No. **SB-4**

Sheet 1 of 1

AKRF
440 Park Avenue South, New York, NY
Phone (212) 696-0670 Fax (212) 726-0942

Drilling Method:	**Geoprobe**
Sampling Method:	**5' Macrocore**
Driller :	**Eastern Env**
Sampler:	**A. Jordan**

Drilling

Start Time	13:05	**Finish Time**	13:30
Date	8/20/2013		
Weather:	Sunny, 75° F		

Depth (feet)	Recovery (Inches)	Surface Condition: GRAVEL	Odor	Moisture	PID	NAPL	Samples Collected for Lab Analysis
1	32	Top 2": GRAVEL (FILL).	ND	Dry	ND	ND	
2		Next 3": CONCRETE (FILL).	ND	Dry	ND	ND	
3		Bottom 27": Black SAND, some Concrete, trace Gravel, trace Wood (FILL).	ND	Dry	ND	ND	
4							
5							
6	31	Brown SILT, some Clay, trace Sand, trace fine Gravel.	ND	Moist @ 6' Wet @ 7'	ND	ND	SB-4 (7-9)
7							
8							
9							
10							
11	30	Brown SAND, some Clay, some Silt, trace fine Gravel,	ND	Wet	ND	ND	
12							
13							
14							
15							
16	24	Fine Gravel, some red-brown Sand.	ND	Dry	ND	ND	
17							
18							SB-4 (18-20)
19							
20							TW-4

Notes: End of boring at 20 feet below ground surface. Soil and groundwater samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL Metals (total and dissolved).

Groundwater encountered at 7' below grade.

PID = photoionization detector ND = Not Detected

SOIL BORING LOG

475 Bay Street

AKRF Project Number: 11802

Boring No. SB-5

Sheet 1 of 1

AKRF
440 Park Avenue South, New York, NY
Phone (212) 696-0670 Fax (212) 726-0942

Drilling Method:	**Geoprobe**
Sampling Method:	**5' Macrocore**
Driller :	**Eastern Env**
Sampler:	**A. Jordan**

Drilling			
Start Time	13:05	**Finish Time**	13:30
Date	8/20/2013		
Weather:	Sunny, 75° F		

Depth (feet)	Recovery (Inches)	Surface Condition: ASPHALT	Odor	Moisture	PID	NAPL	Samples Collected for Lab Analysis
1	17	Brown SAND, some fine Gravel, trace Silt, trace Brick, trace Wood (FILL).	ND	Dry	ND	ND	SB-5 (0-2)
2			ND	Dry	ND	ND	
3			ND	Dry	ND	ND	
4							
5							
6	25	Brown SAND, some Silt, trace fine Gravel.	ND	Moist @ 5' Wet @ 6' Wet	ND	ND	
7							
8							
9							
10							
11	40	Top 32": Brown SILT, some Sand, trace fine Gravel.	ND	Wet	ND	ND	
12							
13							
14		Bottom 8": Fine GRAVEL, trace brown Sand.	ND	Wet	ND	ND	
15							
16	36	Red- brown SAND, some Clay, trace Silt, trace fine Gravel.	ND	Wet	ND	ND	
17							
18							
19							SB-5 (18-20)
20							

Notes: End of boring at 20 feet below ground surface. Soil samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL Metals.

Groundwater encountered at 6' below grade.

PID = photoionization detector

ND = Not Detected

SOIL BORING LOG

475 Bay Street

AKRF Project Number: 11802

Boring No. SB-6

Sheet 1 of 1

AKRF
440 Park Avenue South, New York, NY
Phone (212) 696-0670 Fax (212) 726-0942

Drilling Method:	**Geoprobe**
Sampling Method:	**5' Macrocore**
Driller :	**Eastern Env**
Sampler:	**A. Jordan**

Drilling

Start Time	13:05	**Finish Time**	13:30
Date	8/21/2013		
Weather:	Sunny, 75° F		

Depth (feet)	Recovery (Inches)	Surface Condition: ASPHALT	Odor	Moisture	PPM	NAPL	Samples Collected for Lab Analysis
1	17	ASPHALT, some Concrete, trace Gravel (FILL).	ND	Dry	ND	ND	
2			ND	Dry	ND	ND	
3			ND	Dry	ND	ND	
4							
5							
6	25	Dark brown SAND, some Silt, trace fine Gravel.	Faint Petroleum-Like	Dry	0.4	ND	SB-6 (6-9)
7					1.7		
8							
9					1.6		
10					0.2		
11	40	Brown SAND, some Silt, trace Clay, trace fine Gravel.	ND	Wet	ND	ND	
12							
13							
14							
15							
16	36	Top 31": Brown SAND, some fine Gravel, some Silt, trace Clay.	ND	Wet	ND	ND	
17							
18							
19		Bottom 5": Black SILT.	Organic-Like	Wet	ND	ND	SB-6 (18-20)
20							

Notes: End of boring at 20 feet below ground surface. Soil samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL Metals.

Groundwater encountered at 6' below grade.

PID = photoionization detector PPM= parts per million ND = Not Detected

SOIL BORING LOG

475 Bay Street

AKRF Project Number: 11802

Boring No. **SB-7**

Sheet 1 of 1

AKRF
440 Park Avenue South, New York, NY
Phone (212) 696-0670 Fax (212) 726-0942

Drilling Method:	**Geoprobe**
Sampling Method:	**5' Macrocore**
Driller :	**Eastern Env**
Sampler:	**A. Jordan**

Drilling

Start Time	13:05	**Finish Time**	13:30
Date	8/21/2013		
Weather:	Sunny, 75° F		

Depth (feet)	Recovery (Inches)	Surface Condition: GRAVEL	Odor	Moisture	PPM	NAPL	Samples Collected for Lab Analysis
1	32	Top 18": GRAVEL, some Concrete (FILL).	ND	Dry	ND	ND	
2							
3							
4		Bottom 14": ASPHALT, some black Sand, trace Gravel (FILL).	ND	Dry	ND	ND	
5							
6	27	Gray-brown CLAY, some Silt, some fine SAND.	Faint Petroleum-Like	Moist @ 6'	0.2		SB-7 (6-8)
7							
8				Moist	0.2	ND	
9				Wet @ 8'			
10					0.1		
11	22	Brown SAND, some Silt, trace Clay, trace fine Gravel.	ND	Wet	ND	ND	
12							
13							
14							
15							
16	25	Top 31": Brown SAND, some fine Gravel, some Silt, trace Clay.	ND	Wet	ND	ND	
17							
18							
19		Bottom 5": Black SILT.	Organic-Like	Wet	ND	ND	SB-7 (18-20)
20							

Notes: End of boring at 20 feet below ground surface. Soil samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL Metals.

Groundwater encountered at 6' below grade.

PID = photoionization detector PPM= parts per million ND = Not Detected

SOIL BORING LOG

475 Bay Street

AKRF Project Number: 11802

Boring No. **SB-8**

Sheet 1 of 1

AKRF
440 Park Avenue South, New York, NY
Phone (212) 696-0670 Fax (212) 726-0942

Drilling Method:	**Geoprobe**
Sampling Method:	**5' Macrocore**
Driller :	**Eastern Env**
Sampler:	**A. Jordan**

Drilling

Start Time	7:43	**Finish Time**	8:06
Date	8/21/2013		
Weather:	Sunny, 75° F		

Depth (feet)	Recovery (Inches)	Surface Condition: GRAVEL	Odor	Moisture	PPM	NAPL	Samples Collected for Lab Analysis
1	37	Top 12": Brown SAND, some fine Gravel, trace Concrete (FILL).	ND	Dry	ND	ND	
2			ND	Dry	ND	ND	
3			ND	Dry	ND	ND	
4		Bottom 25": ASPHALT, some black SAND, some Concrete, trace fine Gravel (FILL).					
5							
6	36	Dark brown SAND, some Silt, trace Organics, trace fine Gravel.	Faint Petroleum-Like	Moist @ 5'	0.2	ND	SB-8 (6-8)
7				Wet @ 6'	1.7		
8				Wet			
9					0.3		
10					0.1		
11	34	Brown SAND, some Silt, trace Clay, trace fine Gravel.	ND	Wet	ND	ND	
12							
13							
14							
15							
16	12	Brown SAND, some fine Gravel, trace Silt.	ND	Wet	ND	ND	
17							
18							
19							SB-8 (18-20)
20							

Notes: End of boring at 20 feet below ground surface. Soil samples analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL Metals.

Groundwater encountered at 6' below grade.

PID = photoionization detector PPM= parts per million ND = Not Detected

AKRF, Inc.
Environmental Consultants

Soil Vapor Sampling Log

Job No:	11802	**Client:**	BFC Partners
Project Location:	475 Bay Street Staten Island, NY	**Sampled By:**	A. Jordan
Date:	08/21/2013		

Sample ID:	SV-1
Canister ID:	1050
Flow Controller ID:	0577

Purging

Time Started:	0830	
Time Stopped:	0840	
Vol. Purged:	1.0	liters
Flow Rate:	0.1	L/min

Laboratory Sample (Summa Canister)

Time Started:	0841	**Vacuum:**	-30.69 inHg
Time Stopped:	1044	**Vacuum:**	-5.75 inHg

Field Sample

PID Calibration:	100.0 PPM
Time Started:	0825
Time Stopped:	0830
PID Reading:	Not Detected
He Reading	Not Detected

AKRF, Inc.
Environmental Consultants

Soil Vapor Sampling Log

Job No:	11802	**Client:**	BFC Partners
Project Location:	475 Bay Street Staten Island, NY	**Sampled By:**	A. Jordan
Date:	08/21/2013		

Sample ID:	SV-2
Canister ID:	1897
Flow Controller ID:	0435

Purging

Time Started:	0805
Time Stopped:	0815
Vol. Purged:	1.0 liters
Flow Rate:	0.1 L/min

Laboratory Sample (Summa Canister)

Time Started:	0848	**Vacuum:**	-30.89 inHg
Time Stopped:	1130	**Vacuum:**	-7.16 inHg

Field Sample

PID Calibration:	100.0 PPM
Time Started:	0800
Time Stopped:	0805
PID Reading:	Not Detected
He Reading	Not Detected

AKRF, Inc.
Environmental Consultants

Soil Vapor Sampling Log

Job No:	11802	**Client:**	BFC Partners
Project Location:	475 Bay Street Staten Island, NY	**Sampled By:**	A. Jordan
Date:	08/21/2013		

Sample ID:	SV-3
Canister ID:	986
Flow Controller ID:	0391

Purging

Time Started:	0750
Time Stopped:	0800
Vol. Purged:	1.0 liters
Flow Rate:	0.1 L/min

Laboratory Sample (Summa Canister)

Time Started:	0857	**Vacuum:**	-31.29 inHg
Time Stopped:	1927	**Vacuum:**	-14.98 inHg

Field Sample

PID Calibration:	100.0 PPM
Time Started:	0745
Time Stopped:	0750
PID Reading:	Not Detected
He Reading	Not Detected Above Background Levels

AKRF, Inc. Soil Vapor Sampling Log

Environmental Consultants

Job No:	11802	**Client:**	BFC Partners
Project Location:	475 Bay Street Staten Island, NY	**Sampled By:**	A. Jordan
Date:	08/21/2013		

Sample ID:	SV-4
Canister ID:	1881
Flow Controller ID:	0578

Purging

Time Started:	0735	
Time Stopped:	0745	
Vol. Purged:	1.0	liters
Flow Rate:	0.1	L/min

Laboratory Sample (Summa Canister)

Time Started:	0902	**Vacuum:**	-29.73 inHg
Time Stopped:	1057	**Vacuum:**	-6.02 inHg

Field Sample

PID Calibration:	100.0 PPM
Time Started:	0730
Time Stopped:	0735
PID Reading:	Not Detected
He Reading	Not Detected

APPENDIX B

LABORATORY ANALYSIS DATA SHEETS (CD)

ANALYTICAL REPORT

Lab Number:	L1316206
Client:	AKRF, Inc. 440 Park Avenue South 7th Floor New York, NY 10016
ATTN:	Deborah Shapiro
Phone:	(646) 388-9500
Project Name:	475 BAY STREET
Project Number:	Not Specified
Report Date:	08/28/13

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), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1316206-01	SB-1 (7-9)	475 BAY STREET, SI, NY	08/20/13 09:15
L1316206-02	SB-1 (15-17)	475 BAY STREET, SI, NY	08/20/13 09:20
L1316206-03	SB-2 (0-2)	475 BAY STREET, SI, NY	08/20/13 10:55
L1316206-04	SB-2 (18-20)	475 BAY STREET, SI, NY	08/20/13 11:00
L1316206-05	SB-3 (0-2)	475 BAY STREET, SI, NY	08/20/13 12:00
L1316206-06	SB-3 (18-20)	475 BAY STREET, SI, NY	08/20/13 12:05
L1316206-07	SB-4 (7-9)	475 BAY STREET, SI, NY	08/20/13 13:30
L1316206-08	SB-4 (18-20)	475 BAY STREET, SI, NY	08/20/13 13:35
L1316206-09	TW-1	475 BAY STREET, SI, NY	08/20/13 09:50
L1316206-10	TW-2	475 BAY STREET, SI, NY	08/20/13 11:20
L1316206-11	TW-3	475 BAY STREET, SI, NY	08/20/13 13:00
L1316206-12	TW-4	475 BAY STREET, SI, NY	08/20/13 14:00
L1316206-13	SB-5 (0-2)	475 BAY STREET, SI, NY	08/20/13 10:00
L1316206-14	SB-5 (18-20)	475 BAY STREET, SI, NY	08/20/13 10:30

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

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. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for 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 free of charge for 30 days from the date the project is completed. After 30 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.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 475 BAY STREET **Lab Number:** L1316206
Project Number: Not Specified **Report Date:** 08/28/13

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

Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

L1316206-03: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (36%) and the surrogate recovery for 4-bromofluorobenzene (166%) were outside the acceptance criteria; however, re-analysis achieved similar results for 1,4-Dichlorobenzene-d4 (33%) and 4-bromofluorobenzene (152%). The results of both analyses are reported.

Pesticides

L1316206-05, -07, -13, and -14 have elevated detection limits due to the dilutions required by the sample matrices.

The surrogate recoveries for L1316206-05, -07, and -14 are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene and decachlorobiphenyl (all 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analyses are reported.

Total Metals

L1316206-01 through -14 have elevated detection limits for all elements, with the exception of mercury, due to the dilutions required by matrix interferences encountered during analysis.

The WG630843-4 MS recoveries for calcium (0%), iron (3390%), magnesium (0%), manganese (294%), and nickel (248%), performed on L1316206-01, do not apply because the sample concentrations are greater than four times the spike amount added.

The WG630843-4 MS recoveries, performed on L1316206-01, are outside the acceptance criteria for copper (190%), lead (58%), and sodium (61%). A post digestion spike was performed with acceptable recoveries for copper (93%), lead (92%), and sodium (99%).

Project Name: 475 BAY STREET **Lab Number:** L1316206
Project Number: Not Specified **Report Date:** 08/28/13

Case Narrative (continued)

The WG630843-3 Laboratory Duplicate RPDs, performed on L1316206-01, are outside the acceptance criteria for calcium (58%) and sodium (79%). The elevated RPDs have been attributed to the non-homogeneous nature of the sample utilized for the Laboratory Duplicate.

Dissolved Metals

L1316206-09 has an elevated detection limit for mercury due to limited sample volume available for analysis.

The WG630708-2 LCS recovery, associated with L1316206-09 through -12, is above the acceptance criteria for copper (150%); however, the associated samples are non-detect for this target analyte. The results of the original analysis are reported.

The WG630708-4 MS recoveries for calcium (30%), iron (61%), manganese (69%), and sodium (50%), performed on L1316206-09, do not apply because the sample concentrations are greater than four times the spike amount added.

The WG630708-3 Laboratory Duplicate RPD, performed on L1316206-09, is above the acceptance criteria for chromium (30%); however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

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: Kelly Stenstrom

Title: Technical Director/Representative Date: 08/28/13

ORGANICS

VOLATILES

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-01
Client ID: SB-1 (7-9)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/26/13 10:51
Analyst: BN
Percent Solids: 87%

Date Collected: 08/20/13 09:15
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.20	1
Chloroform	ND		ug/kg	1.7	0.43	1
Carbon tetrachloride	ND		ug/kg	1.2	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.2	0.36	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	1
Tetrachloroethene	ND		ug/kg	1.2	0.16	1
Chlorobenzene	ND		ug/kg	1.2	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.8	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
1,1-Dichloropropene	ND		ug/kg	5.8	0.53	1
Bromoform	ND		ug/kg	4.6	0.48	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.20	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.7	0.13	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	5.8	0.90	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	ND		ug/kg	2.3	0.16	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.2	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.8	0.28	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-01 Date Collected: 08/20/13 09:15

Client ID: SB-1 (7-9) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.12	1
p/m-Xylene	ND		ug/kg	2.3	0.37	1
o-Xylene	ND		ug/kg	2.3	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	12	0.19	1
Styrene	ND		ug/kg	2.3	0.36	1
Dichlorodifluoromethane	ND		ug/kg	12	0.25	1
Acetone	9.0	J	ug/kg	12	3.6	1
Carbon disulfide	ND		ug/kg	12	2.3	1
2-Butanone	ND		ug/kg	12	0.41	1
Vinyl acetate	ND		ug/kg	12	0.55	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.26	1
2-Hexanone	ND		ug/kg	12	0.22	1
Bromochloromethane	ND		ug/kg	5.8	0.23	1
2,2-Dichloropropane	ND		ug/kg	5.8	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.8	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Bromobenzene	ND		ug/kg	5.8	0.24	1
n-Butylbenzene	ND		ug/kg	1.2	0.23	1
sec-Butylbenzene	ND		ug/kg	1.2	0.24	1
tert-Butylbenzene	ND		ug/kg	5.8	0.65	1
o-Chlorotoluene	ND		ug/kg	5.8	0.18	1
p-Chlorotoluene	ND		ug/kg	5.8	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.8	0.91	1
Hexachlorobutadiene	ND		ug/kg	5.8	0.49	1
Isopropylbenzene	ND		ug/kg	1.2	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.22	1
Naphthalene	ND		ug/kg	5.8	0.89	1
Acrylonitrile	ND		ug/kg	12	0.27	1
n-Propylbenzene	ND		ug/kg	1.2	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.8	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.8	0.91	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.8	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.8	0.66	1
1,4-Dioxane	ND		ug/kg	120	20.	1
1,4-Diethylbenzene	ND		ug/kg	4.6	0.18	1
4-Ethyltoluene	ND		ug/kg	4.6	0.14	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-01 Date Collected: 08/20/13 09:15

Client ID: SB-1 (7-9) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.6	0.15	1
Ethyl ether	ND		ug/kg	5.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	0.52	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	102		70-130

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-02
Client ID: SB-1 (15-17)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/26/13 11:24
Analyst: BN
Percent Solids: 83%

Date Collected: 08/20/13 09:20
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.21	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.25	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.37	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	6.0	0.15	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.18	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.28	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
1,1-Dichloropropene	ND		ug/kg	6.0	0.55	1
Bromoform	ND		ug/kg	4.8	0.50	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.20	1
Benzene	0.34	J	ug/kg	1.2	0.14	1
Toluene	0.38	J	ug/kg	1.8	0.13	1
Ethylbenzene	ND		ug/kg	1.2	0.18	1
Chloromethane	ND		ug/kg	6.0	0.94	1
Bromomethane	ND		ug/kg	2.4	0.41	1
Vinyl chloride	ND		ug/kg	2.4	0.17	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.25	1
Trichloroethene	ND		ug/kg	1.2	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	6.0	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	6.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	6.0	0.29	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-02 Date Collected: 08/20/13 09:20

Client ID: SB-1 (15-17) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.4	0.12	1
p/m-Xylene	ND		ug/kg	2.4	0.39	1
o-Xylene	ND		ug/kg	2.4	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
Dibromomethane	ND		ug/kg	12	0.20	1
Styrene	ND		ug/kg	2.4	0.37	1
Dichlorodifluoromethane	ND		ug/kg	12	0.26	1
Acetone	18		ug/kg	12	3.7	1
Carbon disulfide	ND		ug/kg	12	2.4	1
2-Butanone	3.0	J	ug/kg	12	0.43	1
Vinyl acetate	ND		ug/kg	12	0.58	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.27	1
2-Hexanone	ND		ug/kg	12	0.23	1
Bromochloromethane	ND		ug/kg	6.0	0.24	1
2,2-Dichloropropane	ND		ug/kg	6.0	0.27	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.21	1
1,3-Dichloropropane	ND		ug/kg	6.0	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	6.0	0.25	1
n-Butylbenzene	ND		ug/kg	1.2	0.24	1
sec-Butylbenzene	ND		ug/kg	1.2	0.25	1
tert-Butylbenzene	ND		ug/kg	6.0	0.67	1
o-Chlorotoluene	ND		ug/kg	6.0	0.19	1
p-Chlorotoluene	ND		ug/kg	6.0	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	0.95	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.51	1
Isopropylbenzene	ND		ug/kg	1.2	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.23	1
Naphthalene	ND		ug/kg	6.0	0.93	1
Acrylonitrile	ND		ug/kg	12	0.29	1
n-Propylbenzene	ND		ug/kg	1.2	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	0.95	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.0	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.0	0.69	1
1,4-Dioxane	ND		ug/kg	120	21.	1
1,4-Diethylbenzene	ND		ug/kg	4.8	0.19	1
4-Ethyltoluene	ND		ug/kg	4.8	0.14	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-02 Date Collected: 08/20/13 09:20

Client ID: SB-1 (15-17) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.8	0.16	1
Ethyl ether	ND		ug/kg	6.0	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	0.54	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	100		70-130

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-03
Client ID: SB-2 (0-2)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/26/13 11:58
Analyst: BN
Percent Solids: 94%

Date Collected: 08/20/13 10:55
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.1	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.19	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.22	1
1,2-Dichloropropane	ND		ug/kg	3.7	0.24	1
Dibromochloromethane	ND		ug/kg	1.1	0.33	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.32	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.37	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.13	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.24	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.3	0.49	1
Bromoform	ND		ug/kg	4.3	0.44	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.18	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	0.22	J	ug/kg	1.6	0.12	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	5.3	0.84	1
Bromomethane	ND		ug/kg	2.1	0.36	1
Vinyl chloride	ND		ug/kg	2.1	0.15	1
Chloroethane	ND		ug/kg	2.1	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	5.3	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.3	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	5.3	0.26	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-03 Date Collected: 08/20/13 10:55

Client ID: SB-2 (0-2) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.1	0.11	1
p/m-Xylene	ND		ug/kg	2.1	0.34	1
o-Xylene	ND		ug/kg	2.1	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.17	1
Styrene	ND		ug/kg	2.1	0.33	1
Dichlorodifluoromethane	ND		ug/kg	11	0.23	1
Acetone	ND		ug/kg	11	3.3	1
Carbon disulfide	ND		ug/kg	11	2.1	1
2-Butanone	ND		ug/kg	11	0.38	1
Vinyl acetate	ND		ug/kg	11	0.51	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.24	1
2-Hexanone	ND		ug/kg	11	0.20	1
Bromochloromethane	ND		ug/kg	5.3	0.21	1
2,2-Dichloropropane	ND		ug/kg	5.3	0.24	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.3	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.3	0.22	1
n-Butylbenzene	ND		ug/kg	1.1	0.21	1
sec-Butylbenzene	ND		ug/kg	1.1	0.22	1
tert-Butylbenzene	ND		ug/kg	5.3	0.60	1
o-Chlorotoluene	ND		ug/kg	5.3	0.17	1
p-Chlorotoluene	ND		ug/kg	5.3	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.3	0.84	1
Hexachlorobutadiene	ND		ug/kg	5.3	0.45	1
Isopropylbenzene	ND		ug/kg	1.1	0.18	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.20	1
Naphthalene	ND		ug/kg	5.3	0.82	1
Acrylonitrile	ND		ug/kg	11	0.25	1
n-Propylbenzene	ND		ug/kg	1.1	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.3	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.3	0.84	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.3	0.15	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.3	0.61	1
1,4-Dioxane	ND		ug/kg	110	19.	1
1,4-Diethylbenzene	ND		ug/kg	4.3	0.17	1
4-Ethyltoluene	ND		ug/kg	4.3	0.12	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-03 Date Collected: 08/20/13 10:55

Client ID: SB-2 (0-2) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.3	0.14	1
Ethyl ether	ND		ug/kg	5.3	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.3	0.48	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	115		70-130
4-Bromofluorobenzene	**166**	Q	70-130
Dibromofluoromethane	100		70-130

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-03 R
Client ID: SB-2 (0-2)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/27/13 11:18
Analyst: BN
Percent Solids: 94%

Date Collected: 08/20/13 10:55
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.1	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.19	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.22	1
1,2-Dichloropropane	ND		ug/kg	3.7	0.24	1
Dibromochloromethane	ND		ug/kg	1.1	0.33	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.32	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.37	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.13	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.24	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.3	0.49	1
Bromoform	ND		ug/kg	4.3	0.44	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.18	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	0.28	J	ug/kg	1.6	0.12	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	5.3	0.84	1
Bromomethane	ND		ug/kg	2.1	0.36	1
Vinyl chloride	ND		ug/kg	2.1	0.15	1
Chloroethane	ND		ug/kg	2.1	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	5.3	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.3	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	5.3	0.26	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-03 R Date Collected: 08/20/13 10:55

Client ID: SB-2 (0-2) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.1	0.11	1
p/m-Xylene	0.39	J	ug/kg	2.1	0.34	1
o-Xylene	0.38	J	ug/kg	2.1	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.17	1
Styrene	ND		ug/kg	2.1	0.33	1
Dichlorodifluoromethane	ND		ug/kg	11	0.23	1
Acetone	ND		ug/kg	11	3.3	1
Carbon disulfide	ND		ug/kg	11	2.1	1
2-Butanone	ND		ug/kg	11	0.38	1
Vinyl acetate	ND		ug/kg	11	0.51	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.24	1
2-Hexanone	ND		ug/kg	11	0.20	1
Bromochloromethane	ND		ug/kg	5.3	0.21	1
2,2-Dichloropropane	ND		ug/kg	5.3	0.24	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.3	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.3	0.22	1
n-Butylbenzene	0.79	J	ug/kg	1.1	0.21	1
sec-Butylbenzene	0.47	J	ug/kg	1.1	0.22	1
tert-Butylbenzene	ND		ug/kg	5.3	0.60	1
o-Chlorotoluene	ND		ug/kg	5.3	0.17	1
p-Chlorotoluene	ND		ug/kg	5.3	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.3	0.84	1
Hexachlorobutadiene	ND		ug/kg	5.3	0.45	1
Isopropylbenzene	ND		ug/kg	1.1	0.18	1
p-Isopropyltoluene	0.38	J	ug/kg	1.1	0.20	1
Naphthalene	14		ug/kg	5.3	0.82	1
Acrylonitrile	ND		ug/kg	11	0.25	1
n-Propylbenzene	ND		ug/kg	1.1	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.3	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.3	0.84	1
1,3,5-Trimethylbenzene	0.91	J	ug/kg	5.3	0.15	1
1,2,4-Trimethylbenzene	3.1	J	ug/kg	5.3	0.61	1
1,4-Dioxane	ND		ug/kg	110	19.	1
1,4-Diethylbenzene	2.6	J	ug/kg	4.3	0.17	1
4-Ethyltoluene	2.3	J	ug/kg	4.3	0.12	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-03 R Date Collected: 08/20/13 10:55

Client ID: SB-2 (0-2) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	1.8	J	ug/kg	4.3	0.14	1
Ethyl ether	ND		ug/kg	5.3	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.3	0.48	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	119		70-130
4-Bromofluorobenzene	**152**	Q	70-130
Dibromofluoromethane	96		70-130

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-04
Client ID: SB-2 (18-20)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/26/13 12:32
Analyst: BN
Percent Solids: 75%

Date Collected: 08/20/13 11:00
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	13	2.7	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.24	1
Chloroform	ND		ug/kg	2.0	0.50	1
Carbon tetrachloride	ND		ug/kg	1.3	0.28	1
1,2-Dichloropropane	ND		ug/kg	4.7	0.31	1
Dibromochloromethane	ND		ug/kg	1.3	0.41	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.41	1
Tetrachloroethene	ND		ug/kg	1.3	0.19	1
Chlorobenzene	ND		ug/kg	1.3	0.46	1
Trichlorofluoromethane	ND		ug/kg	6.7	0.16	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.15	1
Bromodichloromethane	ND		ug/kg	1.3	0.31	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.17	1
1,1-Dichloropropene	ND		ug/kg	6.7	0.61	1
Bromoform	ND		ug/kg	5.4	0.56	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.23	1
Benzene	ND		ug/kg	1.3	0.16	1
Toluene	0.30	J	ug/kg	2.0	0.15	1
Ethylbenzene	ND		ug/kg	1.3	0.20	1
Chloromethane	ND		ug/kg	6.7	1.0	1
Bromomethane	ND		ug/kg	2.7	0.45	1
Vinyl chloride	ND		ug/kg	2.7	0.19	1
Chloroethane	ND		ug/kg	2.7	0.42	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.28	1
Trichloroethene	ND		ug/kg	1.3	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	6.7	0.24	1
1,3-Dichlorobenzene	ND		ug/kg	6.7	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	6.7	0.32	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-04 Date Collected: 08/20/13 11:00

Client ID: SB-2 (18-20) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.7	0.14	1
p/m-Xylene	ND		ug/kg	2.7	0.43	1
o-Xylene	ND		ug/kg	2.7	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.20	1
Dibromomethane	ND		ug/kg	13	0.22	1
Styrene	ND		ug/kg	2.7	0.41	1
Dichlorodifluoromethane	ND		ug/kg	13	0.29	1
Acetone	ND		ug/kg	13	4.2	1
Carbon disulfide	ND		ug/kg	13	2.7	1
2-Butanone	ND		ug/kg	13	0.48	1
Vinyl acetate	ND		ug/kg	13	0.64	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.33	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.30	1
2-Hexanone	ND		ug/kg	13	0.25	1
Bromochloromethane	ND		ug/kg	6.7	0.26	1
2,2-Dichloropropane	ND		ug/kg	6.7	0.30	1
1,2-Dibromoethane	ND		ug/kg	5.4	0.24	1
1,3-Dichloropropane	ND		ug/kg	6.7	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.43	1
Bromobenzene	ND		ug/kg	6.7	0.28	1
n-Butylbenzene	ND		ug/kg	1.3	0.26	1
sec-Butylbenzene	ND		ug/kg	1.3	0.28	1
tert-Butylbenzene	ND		ug/kg	6.7	0.75	1
o-Chlorotoluene	ND		ug/kg	6.7	0.21	1
p-Chlorotoluene	ND		ug/kg	6.7	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.7	1.0	1
Hexachlorobutadiene	ND		ug/kg	6.7	0.57	1
Isopropylbenzene	ND		ug/kg	1.3	0.22	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.26	1
Naphthalene	ND		ug/kg	6.7	1.0	1
Acrylonitrile	ND		ug/kg	13	0.32	1
n-Propylbenzene	ND		ug/kg	1.3	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.7	0.22	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.7	1.0	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.7	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.7	0.77	1
1,4-Dioxane	ND		ug/kg	130	23.	1
1,4-Diethylbenzene	ND		ug/kg	5.4	0.21	1
4-Ethyltoluene	ND		ug/kg	5.4	0.16	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-04 Date Collected: 08/20/13 11:00

Client ID: SB-2 (18-20) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.4	0.17	1
Ethyl ether	ND		ug/kg	6.7	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.7	0.60	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	102		70-130

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-05
Client ID: SB-3 (0-2)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/26/13 13:05
Analyst: BN
Percent Solids: 91%

Date Collected: 08/20/13 12:00
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.20	1
Chloroform	ND		ug/kg	1.6	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.34	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.13	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.25	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.5	0.50	1
Bromoform	ND		ug/kg	4.4	0.46	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.19	1
Benzene	0.31	J	ug/kg	1.1	0.13	1
Toluene	0.25	J	ug/kg	1.6	0.12	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	5.5	0.86	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.16	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.27	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-05 Date Collected: 08/20/13 12:00

Client ID: SB-3 (0-2) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.2	0.11	1
p/m-Xylene	ND		ug/kg	2.2	0.36	1
o-Xylene	ND		ug/kg	2.2	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.34	1
Dichlorodifluoromethane	ND		ug/kg	11	0.24	1
Acetone	5.5	J	ug/kg	11	3.4	1
Carbon disulfide	ND		ug/kg	11	2.2	1
2-Butanone	ND		ug/kg	11	0.39	1
Vinyl acetate	ND		ug/kg	11	0.53	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.25	1
2-Hexanone	ND		ug/kg	11	0.21	1
Bromochloromethane	ND		ug/kg	5.5	0.22	1
2,2-Dichloropropane	ND		ug/kg	5.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.5	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.5	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.22	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.5	0.62	1
o-Chlorotoluene	ND		ug/kg	5.5	0.18	1
p-Chlorotoluene	ND		ug/kg	5.5	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.87	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.46	1
Isopropylbenzene	ND		ug/kg	1.1	0.18	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.21	1
Naphthalene	ND		ug/kg	5.5	0.85	1
Acrylonitrile	ND		ug/kg	11	0.26	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.87	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.63	1
1,4-Dioxane	ND		ug/kg	110	19.	1
1,4-Diethylbenzene	ND		ug/kg	4.4	0.18	1
4-Ethyltoluene	ND		ug/kg	4.4	0.13	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-05 Date Collected: 08/20/13 12:00

Client ID: SB-3 (0-2) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.14	1
Ethyl ether	ND		ug/kg	5.5	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	**133**	Q	70-130
Dibromofluoromethane	102		70-130

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-06
Client ID: SB-3 (18-20)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/26/13 13:39
Analyst: BN
Percent Solids: 85%

Date Collected: 08/20/13 12:05
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.21	1
Chloroform	ND		ug/kg	1.8	0.43	1
Carbon tetrachloride	ND		ug/kg	1.2	0.25	1
1,2-Dichloropropane	ND		ug/kg	4.1	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.36	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.36	1
Tetrachloroethene	ND		ug/kg	1.2	0.16	1
Chlorobenzene	ND		ug/kg	1.2	0.41	1
Trichlorofluoromethane	ND		ug/kg	5.9	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.27	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
1,1-Dichloropropene	ND		ug/kg	5.9	0.53	1
Bromoform	ND		ug/kg	4.7	0.49	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.20	1
Benzene	0.33	J	ug/kg	1.2	0.14	1
Toluene	0.48	J	ug/kg	1.8	0.13	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	5.9	0.92	1
Bromomethane	ND		ug/kg	2.3	0.40	1
Vinyl chloride	ND		ug/kg	2.3	0.16	1
Chloroethane	ND		ug/kg	2.3	0.37	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.25	1
Trichloroethene	ND		ug/kg	1.2	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	5.9	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.9	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.9	0.28	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-06 Date Collected: 08/20/13 12:05

Client ID: SB-3 (18-20) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.12	1
p/m-Xylene	ND		ug/kg	2.3	0.38	1
o-Xylene	ND		ug/kg	2.3	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
Dibromomethane	ND		ug/kg	12	0.19	1
Styrene	ND		ug/kg	2.3	0.36	1
Dichlorodifluoromethane	ND		ug/kg	12	0.26	1
Acetone	25		ug/kg	12	3.6	1
Carbon disulfide	ND		ug/kg	12	2.3	1
2-Butanone	5.1	J	ug/kg	12	0.42	1
Vinyl acetate	ND		ug/kg	12	0.56	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.26	1
2-Hexanone	ND		ug/kg	12	0.22	1
Bromochloromethane	ND		ug/kg	5.9	0.23	1
2,2-Dichloropropane	ND		ug/kg	5.9	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.7	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.9	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Bromobenzene	ND		ug/kg	5.9	0.24	1
n-Butylbenzene	ND		ug/kg	1.2	0.23	1
sec-Butylbenzene	ND		ug/kg	1.2	0.24	1
tert-Butylbenzene	ND		ug/kg	5.9	0.66	1
o-Chlorotoluene	ND		ug/kg	5.9	0.19	1
p-Chlorotoluene	ND		ug/kg	5.9	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.9	0.92	1
Hexachlorobutadiene	ND		ug/kg	5.9	0.50	1
Isopropylbenzene	ND		ug/kg	1.2	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.22	1
Naphthalene	ND		ug/kg	5.9	0.90	1
Acrylonitrile	ND		ug/kg	12	0.28	1
n-Propylbenzene	ND		ug/kg	1.2	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.9	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.9	0.92	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.9	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.9	0.67	1
1,4-Dioxane	ND		ug/kg	120	20.	1
1,4-Diethylbenzene	ND		ug/kg	4.7	0.19	1
4-Ethyltoluene	ND		ug/kg	4.7	0.14	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-06 Date Collected: 08/20/13 12:05

Client ID: SB-3 (18-20) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.7	0.15	1
Ethyl ether	ND		ug/kg	5.9	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	0.52	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	98		70-130

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-07
Client ID: SB-4 (7-9)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/26/13 14:12
Analyst: BN
Percent Solids: 70%

Date Collected: 08/20/13 13:30
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.8	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.25	1
Chloroform	ND		ug/kg	2.1	0.53	1
Carbon tetrachloride	ND		ug/kg	1.4	0.30	1
1,2-Dichloropropane	ND		ug/kg	5.0	0.32	1
Dibromochloromethane	ND		ug/kg	1.4	0.44	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	0.43	1
Tetrachloroethene	ND		ug/kg	1.4	0.20	1
Chlorobenzene	ND		ug/kg	1.4	0.50	1
Trichlorofluoromethane	ND		ug/kg	7.1	0.17	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.16	1
Bromodichloromethane	ND		ug/kg	1.4	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.18	1
1,1-Dichloropropene	ND		ug/kg	7.1	0.65	1
Bromoform	ND		ug/kg	5.7	0.59	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.24	1
Benzene	ND		ug/kg	1.4	0.17	1
Toluene	0.40	J	ug/kg	2.1	0.16	1
Ethylbenzene	ND		ug/kg	1.4	0.21	1
Chloromethane	ND		ug/kg	7.1	1.1	1
Bromomethane	ND		ug/kg	2.8	0.48	1
Vinyl chloride	ND		ug/kg	2.8	0.20	1
Chloroethane	ND		ug/kg	2.8	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.30	1
Trichloroethene	ND		ug/kg	1.4	0.22	1
1,2-Dichlorobenzene	ND		ug/kg	7.1	0.26	1
1,3-Dichlorobenzene	ND		ug/kg	7.1	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	7.1	0.34	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-07 Date Collected: 08/20/13 13:30

Client ID: SB-4 (7-9) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.8	0.15	1
p/m-Xylene	ND		ug/kg	2.8	0.46	1
o-Xylene	ND		ug/kg	2.8	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.21	1
Dibromomethane	ND		ug/kg	14	0.23	1
Styrene	ND		ug/kg	2.8	0.44	1
Dichlorodifluoromethane	ND		ug/kg	14	0.31	1
Acetone	120		ug/kg	14	4.4	1
Carbon disulfide	ND		ug/kg	14	2.8	1
2-Butanone	19		ug/kg	14	0.51	1
Vinyl acetate	ND		ug/kg	14	0.68	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.35	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.32	1
2-Hexanone	ND		ug/kg	14	0.27	1
Bromochloromethane	ND		ug/kg	7.1	0.28	1
2,2-Dichloropropane	ND		ug/kg	7.1	0.32	1
1,2-Dibromoethane	ND		ug/kg	5.7	0.25	1
1,3-Dichloropropane	ND		ug/kg	7.1	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.45	1
Bromobenzene	ND		ug/kg	7.1	0.30	1
n-Butylbenzene	ND		ug/kg	1.4	0.28	1
sec-Butylbenzene	ND		ug/kg	1.4	0.29	1
tert-Butylbenzene	ND		ug/kg	7.1	0.80	1
o-Chlorotoluene	ND		ug/kg	7.1	0.23	1
p-Chlorotoluene	ND		ug/kg	7.1	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.1	1.1	1
Hexachlorobutadiene	ND		ug/kg	7.1	0.60	1
Isopropylbenzene	ND		ug/kg	1.4	0.24	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.27	1
Naphthalene	ND		ug/kg	7.1	1.1	1
Acrylonitrile	ND		ug/kg	14	0.34	1
n-Propylbenzene	ND		ug/kg	1.4	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.1	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.1	1.1	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.1	0.82	1
1,4-Dioxane	ND		ug/kg	140	25.	1
1,4-Diethylbenzene	ND		ug/kg	5.7	0.23	1
4-Ethyltoluene	ND		ug/kg	5.7	0.17	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-07 Date Collected: 08/20/13 13:30

Client ID: SB-4 (7-9) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.7	0.18	1
Ethyl ether	ND		ug/kg	7.1	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.1	0.64	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	101		70-130

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-08
Client ID: SB-4 (18-20)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/26/13 14:46
Analyst: BN
Percent Solids: 87%

Date Collected: 08/20/13 13:35
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.20	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	0.35	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	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	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.13	1
Bromodichloromethane	ND		ug/kg	1.1	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.7	0.52	1
Bromoform	ND		ug/kg	4.6	0.48	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.20	1
Benzene	ND		ug/kg	1.1	0.14	1
Toluene	0.34	J	ug/kg	1.7	0.13	1
Ethylbenzene	ND		ug/kg	1.1	0.17	1
Chloromethane	ND		ug/kg	5.7	0.90	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	ND		ug/kg	2.3	0.16	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.28	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-08 Date Collected: 08/20/13 13:35

Client ID: SB-4 (18-20) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.12	1
p/m-Xylene	ND		ug/kg	2.3	0.37	1
o-Xylene	ND		ug/kg	2.3	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.17	1
Dibromomethane	ND		ug/kg	11	0.19	1
Styrene	ND		ug/kg	2.3	0.35	1
Dichlorodifluoromethane	ND		ug/kg	11	0.25	1
Acetone	7.2	J	ug/kg	11	3.6	1
Carbon disulfide	ND		ug/kg	11	2.3	1
2-Butanone	ND		ug/kg	11	0.41	1
Vinyl acetate	ND		ug/kg	11	0.55	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.26	1
2-Hexanone	ND		ug/kg	11	0.22	1
Bromochloromethane	ND		ug/kg	5.7	0.22	1
2,2-Dichloropropane	ND		ug/kg	5.7	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.7	0.20	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	0.23	1
sec-Butylbenzene	ND		ug/kg	1.1	0.24	1
tert-Butylbenzene	ND		ug/kg	5.7	0.64	1
o-Chlorotoluene	ND		ug/kg	5.7	0.18	1
p-Chlorotoluene	ND		ug/kg	5.7	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	0.90	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.48	1
Isopropylbenzene	ND		ug/kg	1.1	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.7	0.88	1
Acrylonitrile	ND		ug/kg	11	0.27	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.90	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	0.66	1
1,4-Dioxane	ND		ug/kg	110	20.	1
1,4-Diethylbenzene	ND		ug/kg	4.6	0.18	1
4-Ethyltoluene	ND		ug/kg	4.6	0.13	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-08 Date Collected: 08/20/13 13:35

Client ID: SB-4 (18-20) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.6	0.15	1
Ethyl ether	ND		ug/kg	5.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	0.51	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-09
Client ID: TW-1
Sample Location: 475 BAY STREET, SI, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/22/13 14:35
Analyst: PD

Date Collected: 08/20/13 09:50
Date Received: 08/20/13
Field Prep: Not Specified

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	ND		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	0.31	J	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
1,1-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	0.23	J	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	0.33	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	0.43	J	ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-09 Date Collected: 08/20/13 09:50

Client ID: TW-1 Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
cis-1,2-Dichloroethene	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	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	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
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1
4-Ethyltoluene	ND		ug/l	2.0	0.70	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-09 Date Collected: 08/20/13 09:50

Client ID: TW-1 Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	110		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	103		70-130

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-10
Client ID: TW-2
Sample Location: 475 BAY STREET, SI, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/22/13 15:11
Analyst: PD

Date Collected: 08/20/13 11:20
Date Received: 08/20/13
Field Prep: Not Specified

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	ND		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	ND		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
1,1-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	0.33	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	0.19	J	ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-10 Date Collected: 08/20/13 11:20

Client ID: TW-2 Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
cis-1,2-Dichloroethene	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	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	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
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1
4-Ethyltoluene	ND		ug/l	2.0	0.70	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-10 Date Collected: 08/20/13 11:20

Client ID: TW-2 Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	111		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	105		70-130

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-11
Client ID: TW-3
Sample Location: 475 BAY STREET, SI, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/22/13 15:48
Analyst: PD

Date Collected: 08/20/13 13:00
Date Received: 08/20/13
Field Prep: Not Specified

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	ND		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	ND		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
1,1-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	0.33	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	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-11 Date Collected: 08/20/13 13:00

Client ID: TW-3 Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
cis-1,2-Dichloroethene	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	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	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
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1
4-Ethyltoluene	ND		ug/l	2.0	0.70	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-11 Date Collected: 08/20/13 13:00

Client ID: TW-3 Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	111		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	104		70-130

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-12
Client ID: TW-4
Sample Location: 475 BAY STREET, SI, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/22/13 16:24
Analyst: PD

Date Collected: 08/20/13 14:00
Date Received: 08/20/13
Field Prep: Not Specified

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	ND		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	ND		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
1,1-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	0.33	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	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-12 Date Collected: 08/20/13 14:00

Client ID: TW-4 Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
cis-1,2-Dichloroethene	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	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	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
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1
4-Ethyltoluene	ND		ug/l	2.0	0.70	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-12 Date Collected: 08/20/13 14:00

Client ID: TW-4 Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	112		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	105		70-130

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-13	Date Collected:	08/20/13 10:00
Client ID:	SB-5 (0-2)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260C		
Analytical Date:	08/26/13 15:20		
Analyst:	BN		
Percent Solids:	63%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	16	3.2	1
1,1-Dichloroethane	ND		ug/kg	2.4	0.28	1
Chloroform	ND		ug/kg	2.4	0.59	1
Carbon tetrachloride	ND		ug/kg	1.6	0.33	1
1,2-Dichloropropane	ND		ug/kg	5.6	0.36	1
Dibromochloromethane	ND		ug/kg	1.6	0.49	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	0.19	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	1.6	0.18	1
Bromodichloromethane	ND		ug/kg	1.6	0.36	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	1.6	0.20	1
1,1-Dichloropropene	ND		ug/kg	7.9	0.72	1
Bromoform	ND		ug/kg	6.3	0.66	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.6	0.27	1
Benzene	ND		ug/kg	1.6	0.19	1
Toluene	ND		ug/kg	2.4	0.18	1
Ethylbenzene	ND		ug/kg	1.6	0.23	1
Chloromethane	ND		ug/kg	7.9	1.2	1
Bromomethane	ND		ug/kg	3.2	0.54	1
Vinyl chloride	ND		ug/kg	3.2	0.22	1
Chloroethane	ND		ug/kg	3.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	2.4	0.34	1
Trichloroethene	ND		ug/kg	1.6	0.24	1
1,2-Dichlorobenzene	ND		ug/kg	7.9	0.29	1
1,3-Dichlorobenzene	ND		ug/kg	7.9	0.29	1
1,4-Dichlorobenzene	ND		ug/kg	7.9	0.38	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-13 Date Collected: 08/20/13 10:00

Client ID: SB-5 (0-2) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	3.2	0.16	1
p/m-Xylene	ND		ug/kg	3.2	0.51	1
o-Xylene	ND		ug/kg	3.2	0.43	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	0.24	1
Dibromomethane	ND		ug/kg	16	0.26	1
Styrene	ND		ug/kg	3.2	0.49	1
Dichlorodifluoromethane	ND		ug/kg	16	0.35	1
Acetone	ND		ug/kg	16	4.9	1
Carbon disulfide	ND		ug/kg	16	3.2	1
2-Butanone	ND		ug/kg	16	0.56	1
Vinyl acetate	ND		ug/kg	16	0.76	1
4-Methyl-2-pentanone	ND		ug/kg	16	0.39	1
1,2,3-Trichloropropane	ND		ug/kg	16	0.36	1
2-Hexanone	ND		ug/kg	16	0.30	1
Bromochloromethane	ND		ug/kg	7.9	0.31	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	0.27	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	0.31	1
sec-Butylbenzene	ND		ug/kg	1.6	0.33	1
tert-Butylbenzene	ND		ug/kg	7.9	0.89	1
o-Chlorotoluene	ND		ug/kg	7.9	0.25	1
p-Chlorotoluene	ND		ug/kg	7.9	0.24	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.9	1.2	1
Hexachlorobutadiene	ND		ug/kg	7.9	0.67	1
Isopropylbenzene	ND		ug/kg	1.6	0.27	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.30	1
Naphthalene	ND		ug/kg	7.9	1.2	1
Acrylonitrile	ND		ug/kg	16	0.38	1
n-Propylbenzene	ND		ug/kg	1.6	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.9	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.9	1.2	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.9	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.9	0.91	1
1,4-Dioxane	ND		ug/kg	160	28.	1
1,4-Diethylbenzene	ND		ug/kg	6.3	0.25	1
4-Ethyltoluene	ND		ug/kg	6.3	0.18	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-13 Date Collected: 08/20/13 10:00

Client ID: SB-5 (0-2) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.3	0.21	1
Ethyl ether	ND		ug/kg	7.9	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.9	0.71	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	99		70-130

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-14	Date Collected:	08/20/13 10:30
Client ID:	SB-5 (18-20)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260C		
Analytical Date:	08/26/13 15:53		
Analyst:	BN		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.2	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.20	1
Chloroform	ND		ug/kg	1.7	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.34	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	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.6	0.51	1
Bromoform	ND		ug/kg	4.5	0.46	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.19	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.12	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	5.6	0.88	1
Bromomethane	ND		ug/kg	2.2	0.38	1
Vinyl chloride	ND		ug/kg	2.2	0.16	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	5.6	0.27	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-14 Date Collected: 08/20/13 10:30

Client ID: SB-5 (18-20) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.2	0.12	1
p/m-Xylene	ND		ug/kg	2.2	0.36	1
o-Xylene	ND		ug/kg	2.2	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.17	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.35	1
Dichlorodifluoromethane	ND		ug/kg	11	0.24	1
Acetone	4.6	J	ug/kg	11	3.5	1
Carbon disulfide	ND		ug/kg	11	2.2	1
2-Butanone	ND		ug/kg	11	0.40	1
Vinyl acetate	ND		ug/kg	11	0.54	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.25	1
2-Hexanone	ND		ug/kg	11	0.21	1
Bromochloromethane	ND		ug/kg	5.6	0.22	1
2,2-Dichloropropane	ND		ug/kg	5.6	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.5	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.6	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.6	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.22	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.6	0.63	1
o-Chlorotoluene	ND		ug/kg	5.6	0.18	1
p-Chlorotoluene	ND		ug/kg	5.6	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	0.88	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.47	1
Isopropylbenzene	ND		ug/kg	1.1	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.21	1
Naphthalene	ND		ug/kg	5.6	0.86	1
Acrylonitrile	ND		ug/kg	11	0.26	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	0.88	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	0.64	1
1,4-Dioxane	ND		ug/kg	110	19.	1
1,4-Diethylbenzene	ND		ug/kg	4.5	0.18	1
4-Ethyltoluene	ND		ug/kg	4.5	0.13	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-14 Date Collected: 08/20/13 10:30

Client ID: SB-5 (18-20) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.5	0.14	1
Ethyl ether	ND		ug/kg	5.6	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	0.50	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	102		70-130

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/22/13 10:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-12 Batch: WG630904-3					
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
1,1-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	0.33
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
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/22/13 10:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-12 Batch: WG630904-3					
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
cis-1,2-Dichloroethene	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
Isopropyl Ether	ND		ug/l	2.0	0.65
tert-Butyl Alcohol	ND		ug/l	10	1.2
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
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
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
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

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/22/13 10:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-12 Batch: WG630904-3					
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	0.24
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.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.70
1,4-Diethylbenzene	ND		ug/l	2.0	0.70
4-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
Methyl cyclohexane	ND		ug/l	10	0.29

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	100		70-130

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/26/13 09:43
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08,13-14 Batch: WG631529-3					
Methylene chloride	ND		ug/kg	10	2.0
1,1-Dichloroethane	ND		ug/kg	1.5	0.18
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	0.31
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	0.12
1,2-Dichloroethane	ND		ug/kg	1.0	0.15
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.23
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13
1,1-Dichloropropene	ND		ug/kg	5.0	0.46
Bromoform	ND		ug/kg	4.0	0.41
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17
Benzene	ND		ug/kg	1.0	0.12
Toluene	0.25	J	ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Chloromethane	ND		ug/kg	5.0	0.78
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.14
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.20
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.15
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/26/13 09:43
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08,13-14 Batch: WG631529-3					
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.31
Dichlorodifluoromethane	ND		ug/kg	10	0.22
Acetone	ND		ug/kg	10	3.1
Carbon disulfide	ND		ug/kg	10	2.0
2-Butanone	ND		ug/kg	10	0.36
Vinyl acetate	ND		ug/kg	10	0.48
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.22
2-Hexanone	ND		ug/kg	10	0.19
Bromochloromethane	ND		ug/kg	5.0	0.20
2,2-Dichloropropane	ND		ug/kg	5.0	0.22
1,2-Dibromoethane	ND		ug/kg	4.0	0.18
1,3-Dichloropropane	ND		ug/kg	5.0	0.17
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	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.79
Hexachlorobutadiene	ND		ug/kg	5.0	0.42
Isopropylbenzene	ND		ug/kg	1.0	0.17
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77
Acrylonitrile	ND		ug/kg	10	0.24

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/26/13 09:43
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08,13-14 Batch: WG631529-3					
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	0.91
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.79
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57
Methyl Acetate	ND		ug/kg	20	0.76
Ethyl Acetate	ND		ug/kg	20	0.82
Acrolein	ND		ug/kg	25	9.2
Cyclohexane	ND		ug/kg	20	1.1
1,4-Dioxane	ND		ug/kg	100	17.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-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	0.38
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.45
Methyl cyclohexane	ND		ug/kg	4.0	1.3
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.42
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.58

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	103		70-130

Project Name: 475 BAY STREET
Project Number: Not Specified
Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/27/13 10:10
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG631529-6					
Methylene chloride	ND		ug/kg	10	2.0
1,1-Dichloroethane	ND		ug/kg	1.5	0.18
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	0.31
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	0.12
1,2-Dichloroethane	ND		ug/kg	1.0	0.15
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.23
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13
1,1-Dichloropropene	ND		ug/kg	5.0	0.46
Bromoform	ND		ug/kg	4.0	0.41
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Chloromethane	ND		ug/kg	5.0	0.78
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.14
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.20
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.15
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/27/13 10:10
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG631529-6					
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.31
Dichlorodifluoromethane	ND		ug/kg	10	0.22
Acetone	ND		ug/kg	10	3.1
Carbon disulfide	ND		ug/kg	10	2.0
2-Butanone	ND		ug/kg	10	0.36
Vinyl acetate	ND		ug/kg	10	0.48
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.22
2-Hexanone	ND		ug/kg	10	0.19
Bromochloromethane	ND		ug/kg	5.0	0.20
2,2-Dichloropropane	ND		ug/kg	5.0	0.22
1,2-Dibromoethane	ND		ug/kg	4.0	0.18
1,3-Dichloropropane	ND		ug/kg	5.0	0.17
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	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.79
Hexachlorobutadiene	ND		ug/kg	5.0	0.42
Isopropylbenzene	ND		ug/kg	1.0	0.17
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77
Acrylonitrile	ND		ug/kg	10	0.24

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/27/13 10:10
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG631529-6					
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	0.91
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.79
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57
Methyl Acetate	ND		ug/kg	20	0.76
Ethyl Acetate	ND		ug/kg	20	0.82
Acrolein	ND		ug/kg	25	9.2
Cyclohexane	ND		ug/kg	20	1.1
1,4-Dioxane	ND		ug/kg	100	17.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-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	0.38
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.45
Methyl cyclohexane	ND		ug/kg	4.0	1.3
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.42
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.58

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-12 Batch: WG630904-1 WG630904-2								
Methylene chloride	103		103		70-130	0		20
1,1-Dichloroethane	99		98		70-130	1		20
Chloroform	99		97		70-130	2		20
2-Chloroethylvinyl ether	96		96		70-130	0		20
Carbon tetrachloride	101		100		63-132	1		20
1,2-Dichloropropane	96		96		70-130	0		20
Dibromochloromethane	97		96		63-130	1		20
1,1,2-Trichloroethane	100		98		70-130	2		20
Tetrachloroethene	100		97		70-130	3		20
Chlorobenzene	102		101		75-130	1		20
Trichlorofluoromethane	124		120		62-150	3		20
1,2-Dichloroethane	97		99		70-130	2		20
1,1,1-Trichloroethane	100		99		67-130	1		20
Bromodichloromethane	101		101		67-130	0		20
trans-1,3-Dichloropropene	97		98		70-130	1		20
cis-1,3-Dichloropropene	95		97		70-130	2		20
1,1-Dichloropropene	100		97		70-130	3		20
Bromoform	99		99		54-136	0		20
1,1,2,2-Tetrachloroethane	91		92		67-130	1		20
Benzene	104		102		70-130	2		20
Toluene	105		102		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-12 Batch: WG630904-1 WG630904-2								
Ethylbenzene	109		106		70-130	3		20
Chloromethane	82		85		64-130	4		20
Bromomethane	66		64		39-139	3		20
Vinyl chloride	112		114		55-140	2		20
Chloroethane	119		119		55-138	0		20
1,1-Dichloroethene	109		108		61-145	1		20
trans-1,2-Dichloroethene	97		96		70-130	1		20
Trichloroethene	101		98		70-130	3		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	104		102		70-130	2		20
1,4-Dichlorobenzene	99		98		70-130	1		20
Methyl tert butyl ether	89		94		63-130	5		20
p/m-Xylene	108		107		70-130	1		20
o-Xylene	111		108		70-130	3		20
cis-1,2-Dichloroethene	101		99		70-130	2		20
Dibromomethane	98		103		70-130	5		20
1,2,3-Trichloropropane	96		95		64-130	1		20
Acrylonitrile	81		84		70-130	4		20
Isopropyl Ether	90		90		70-130	0		20
tert-Butyl Alcohol	86		92		70-130	7		20
Styrene	114		112		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-12 Batch: WG630904-1 WG630904-2								
Dichlorodifluoromethane	100		96		36-147	4		20
Acetone	125		112		58-148	11		20
Carbon disulfide	99		97		51-130	2		20
2-Butanone	87		98		63-138	12		20
Vinyl acetate	86		89		70-130	3		20
4-Methyl-2-pentanone	73		76		59-130	4		20
2-Hexanone	90		87		57-130	3		20
Bromochloromethane	103		102		70-130	1		20
2,2-Dichloropropane	107		105		63-133	2		20
1,2-Dibromoethane	92		92		70-130	0		20
1,3-Dichloropropane	98		97		70-130	1		20
1,1,1,2-Tetrachloroethane	102		101		64-130	1		20
Bromobenzene	101		99		70-130	2		20
n-Butylbenzene	99		100		53-136	1		20
sec-Butylbenzene	105		103		70-130	2		20
tert-Butylbenzene	102		102		70-130	0		20
o-Chlorotoluene	113		111		70-130	2		20
p-Chlorotoluene	108		106		70-130	2		20
1,2-Dibromo-3-chloropropane	86		88		41-144	2		20
Hexachlorobutadiene	93		92		63-130	1		20
Isopropylbenzene	109		105		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-12 Batch: WG630904-1 WG630904-2								
p-Isopropyltoluene	102		101		70-130	1		20
Naphthalene	99		109		70-130	10		20
n-Propylbenzene	104		102		69-130	2		20
1,2,3-Trichlorobenzene	89		95		70-130	7		20
1,2,4-Trichlorobenzene	87		95		70-130	9		20
1,3,5-Trimethylbenzene	105		105		64-130	0		20
1,2,4-Trimethylbenzene	98		99		70-130	1		20
Methyl Acetate	88		87		70-130	1		20
Ethyl Acetate	86		89		70-130	3		20
Cyclohexane	93		93		70-130	0		20
Ethyl-Tert-Butyl-Ether	88		89		70-130	1		20
Tertiary-Amyl Methyl Ether	90		93		66-130	3		20
1,4-Dioxane	91		96		56-162	5		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	120		116		70-130	3		20
1,4-Diethylbenzene	99		99		70-130	0		20
4-Ethyltoluene	104		102		70-130	2		20
1,2,4,5-Tetramethylbenzene	120		122		70-130	2		20
Ethyl ether	111		109		59-134	2		20
trans-1,4-Dichloro-2-butene	72		77		70-130	7		20
Methyl cyclohexane	100		98		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-12 Batch: WG630904-1 WG630904-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		102		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	104		102		70-130
Dibromofluoromethane	97		99		70-130

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08,13-14 Batch: WG631529-1 WG631529-2								
Methylene chloride	97		103		70-130	6		30
1,1-Dichloroethane	98		105		70-130	7		30
Chloroform	96		103		70-130	7		30
Carbon tetrachloride	108		116		70-130	7		30
1,2-Dichloropropane	97		107		70-130	10		30
Dibromochloromethane	106		119		70-130	12		30
1,1,2-Trichloroethane	97		108		70-130	11		30
Tetrachloroethene	97		106		70-130	9		30
Chlorobenzene	98		108		70-130	10		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08,13-14 Batch: WG631529-1 WG631529-2								
Trichlorofluoromethane	92		96		70-139	4		30
1,2-Dichloroethane	90		98		70-130	9		30
1,1,1-Trichloroethane	107		114		70-130	6		30
Bromodichloromethane	101		110		70-130	9		30
trans-1,3-Dichloropropene	88		98		70-130	11		30
cis-1,3-Dichloropropene	94		102		70-130	8		30
1,1-Dichloropropene	97		103		70-130	6		30
Bromoform	98		109		70-130	11		30
1,1,2,2-Tetrachloroethane	97		109		70-130	12		30
Benzene	98		106		70-130	8		30
Toluene	95		103		70-130	8		30
Ethylbenzene	101		110		70-130	9		30
Chloromethane	85		87		52-130	2		30
Bromomethane	93		104		57-147	11		30
Vinyl chloride	96		98		67-130	2		30
Chloroethane	98		102		50-151	4		30
1,1-Dichloroethene	96		102		65-135	6		30
trans-1,2-Dichloroethene	96		104		70-130	8		30
Trichloroethene	97		104		70-130	7		30
1,2-Dichlorobenzene	96		109		70-130	13		30
1,3-Dichlorobenzene	99		110		70-130	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316206

Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08,13-14 Batch: WG631529-1 WG631529-2								
1,4-Dichlorobenzene	99		110		70-130	11		30
Methyl tert butyl ether	100		110		66-130	10		30
p/m-Xylene	99		108		70-130	9		30
o-Xylene	98		108		70-130	10		30
cis-1,2-Dichloroethene	96		103		70-130	7		30
Dibromomethane	93		102		70-130	9		30
Styrene	102		113		70-130	10		30
Dichlorodifluoromethane	61		62		30-146	2		30
Acetone	82		86		54-140	5		30
Carbon disulfide	92		98		59-130	6		30
2-Butanone	82		85		70-130	4		30
Vinyl acetate	94		104		70-130	10		30
4-Methyl-2-pentanone	91		98		70-130	7		30
1,2,3-Trichloropropane	94		105		68-130	11		30
2-Hexanone	88		97		70-130	10		30
Bromochloromethane	93		100		70-130	7		30
2,2-Dichloropropane	108		114		70-130	5		30
1,2-Dibromoethane	103		113		70-130	9		30
1,3-Dichloropropane	95		105		69-130	10		30
1,1,1,2-Tetrachloroethane	100		110		70-130	10		30
Bromobenzene	95		106		70-130	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316206

Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08,13-14 Batch: WG631529-1 WG631529-2								
n-Butylbenzene	103		114		70-130	10		30
sec-Butylbenzene	104		113		70-130	8		30
tert-Butylbenzene	99		109		70-130	10		30
o-Chlorotoluene	100		110		70-130	10		30
p-Chlorotoluene	99		109		70-130	10		30
1,2-Dibromo-3-chloropropane	93		102		68-130	9		30
Hexachlorobutadiene	92		100		67-130	8		30
Isopropylbenzene	100		109		70-130	9		30
p-Isopropyltoluene	101		111		70-130	9		30
Naphthalene	90		106		70-130	16		30
Acrylonitrile	91		98		70-130	7		30
Isopropyl Ether	95		103		66-130	8		30
tert-Butyl Alcohol	90		97		70-130	7		30
n-Propylbenzene	100		110		70-130	10		30
1,2,3-Trichlorobenzene	93		107		70-130	14		30
1,2,4-Trichlorobenzene	96		110		70-130	14		30
1,3,5-Trimethylbenzene	99		110		70-130	11		30
1,2,4-Trimethylbenzene	99		109		70-130	10		30
Methyl Acetate	92		96		51-146	4		30
Ethyl Acetate	98		104		70-130	6		30
Acrolein	89		99		70-130	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316206

Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08,13-14 Batch: WG631529-1 WG631529-2								
Cyclohexane	100		106		59-142	6		30
1,4-Dioxane	107		117		65-136	9		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	98		104		50-139	6		30
1,4-Diethylbenzene	101		113		70-130	11		30
4-Ethyltoluene	103		112		70-130	8		30
1,2,4,5-Tetramethylbenzene	99		111		70-130	11		30
Tetrahydrofuran	93		99		66-130	6		30
Ethyl ether	90		98		67-130	9		30
trans-1,4-Dichloro-2-butene	100		111		70-130	10		30
Methyl cyclohexane	102		107		70-130	5		30
Ethyl-Tert-Butyl-Ether	125		**139**	Q	70-130	11		30
Tertiary-Amyl Methyl Ether	84		93		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	130		107		70-130
Toluene-d8	109		107		70-130
4-Bromofluorobenzene	105		107		70-130
Dibromofluoromethane	123		109		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316206

Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG631529-4 WG631529-5								
Methylene chloride	91		97		70-130	6		30
1,1-Dichloroethane	84		93		70-130	10		30
Chloroform	81		92		70-130	13		30
Carbon tetrachloride	91		100		70-130	9		30
1,2-Dichloropropane	84		94		70-130	11		30
Dibromochloromethane	98		104		70-130	6		30
1,1,2-Trichloroethane	90		94		70-130	4		30
Tetrachloroethene	91		93		70-130	2		30
Chlorobenzene	90		95		70-130	5		30
Trichlorofluoromethane	81		86		70-139	6		30
1,2-Dichloroethane	76		85		70-130	11		30
1,1,1-Trichloroethane	94		102		70-130	8		30
Bromodichloromethane	85		96		70-130	12		30
trans-1,3-Dichloropropene	83		87		70-130	5		30
cis-1,3-Dichloropropene	81		91		70-130	12		30
1,1-Dichloropropene	84		91		70-130	8		30
Bromoform	100		98		70-130	2		30
1,1,2,2-Tetrachloroethane	100		96		70-130	4		30
Benzene	83		92		70-130	10		30
Toluene	86		91		70-130	6		30
Ethylbenzene	93		97		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316206

Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG631529-4 WG631529-5								
Chloromethane	75		80		52-130	6		30
Bromomethane	82		89		57-147	8		30
Vinyl chloride	88		90		67-130	2		30
Chloroethane	88		91		50-151	3		30
1,1-Dichloroethene	85		91		65-135	7		30
trans-1,2-Dichloroethene	83		91		70-130	9		30
Trichloroethene	82		91		70-130	10		30
1,2-Dichlorobenzene	98		96		70-130	2		30
1,3-Dichlorobenzene	100		98		70-130	2		30
1,4-Dichlorobenzene	100		98		70-130	2		30
Methyl tert butyl ether	89		99		66-130	11		30
p/m-Xylene	92		96		70-130	4		30
o-Xylene	91		96		70-130	5		30
cis-1,2-Dichloroethene	81		92		70-130	13		30
Dibromomethane	78		88		70-130	12		30
Styrene	95		100		70-130	5		30
Dichlorodifluoromethane	52		57		30-146	9		30
Acetone	84		77		54-140	9		30
Carbon disulfide	81		88		59-130	8		30
2-Butanone	81		77		70-130	5		30
Vinyl acetate	86		93		70-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316206

Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG631529-4 WG631529-5								
4-Methyl-2-pentanone	83		89		70-130	7		30
1,2,3-Trichloropropane	97		92		68-130	5		30
2-Hexanone	92		87		70-130	6		30
Bromochloromethane	80		89		70-130	11		30
2,2-Dichloropropane	98		105		70-130	7		30
1,2-Dibromoethane	98		101		70-130	3		30
1,3-Dichloropropane	88		92		69-130	4		30
1,1,1,2-Tetrachloroethane	92		97		70-130	5		30
Bromobenzene	96		94		70-130	2		30
n-Butylbenzene	106		101		70-130	5		30
sec-Butylbenzene	106		101		70-130	5		30
tert-Butylbenzene	101		97		70-130	4		30
o-Chlorotoluene	101		98		70-130	3		30
p-Chlorotoluene	100		97		70-130	3		30
1,2-Dibromo-3-chloropropane	96		92		68-130	4		30
Hexachlorobutadiene	94		91		67-130	3		30
Isopropylbenzene	93		96		70-130	3		30
p-Isopropyltoluene	103		99		70-130	4		30
Naphthalene	96		93		70-130	3		30
Acrylonitrile	81		86		70-130	6		30
Isopropyl Ether	82		92		66-130	11		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG631529-4 WG631529-5								
tert-Butyl Alcohol	80		88		70-130	10		30
n-Propylbenzene	101		98		70-130	3		30
1,2,3-Trichlorobenzene	97		95		70-130	2		30
1,2,4-Trichlorobenzene	99		97		70-130	2		30
1,3,5-Trimethylbenzene	101		98		70-130	3		30
1,2,4-Trimethylbenzene	100		98		70-130	2		30
Methyl Acetate	72		85		51-146	17		30
Ethyl Acetate	87		91		70-130	4		30
Acrolein	81		89		70-130	9		30
Cyclohexane	87		94		59-142	8		30
1,4-Dioxane	102		107		65-136	5		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	88		94		50-139	7		30
1,4-Diethylbenzene	104		100		70-130	4		30
4-Ethyltoluene	104		100		70-130	4		30
1,2,4,5-Tetramethylbenzene	101		99		70-130	2		30
Tetrahydrofuran	84		87		66-130	4		30
Ethyl ether	81		88		67-130	8		30
trans-1,4-Dichloro-2-butene	101		98		70-130	3		30
Methyl cyclohexane	88		95		70-130	8		30
Ethyl-Tert-Butyl-Ether	112		127		70-130	13		30
Tertiary-Amyl Methyl Ether	76		85		70-130	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG631529-4 WG631529-5								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		94		70-130
Toluene-d8	94		100		70-130
4-Bromofluorobenzene	103		101		70-130
Dibromofluoromethane	93		99		70-130

SEMIVOLATILES

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-01	Date Collected:	08/20/13 09:15
Client ID:	SB-1 (7-9)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	08/22/13 21:56
Analytical Date:	08/27/13 23:37		
Analyst:	JB		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	38.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	61.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	52.	1
2-Chloronaphthalene	ND		ug/kg	190	61.	1
1,2-Dichlorobenzene	ND		ug/kg	190	61.	1
1,3-Dichlorobenzene	ND		ug/kg	190	59.	1
1,4-Dichlorobenzene	ND		ug/kg	190	57.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	40.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	ND		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	57.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	43.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	66.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	57.	1
Hexachlorobutadiene	ND		ug/kg	190	53.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	62.	1
Nitrobenzene	ND		ug/kg	170	44.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	39.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	49.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	46.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1
Benzo(a)anthracene	ND		ug/kg	110	37.	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-01 Date Collected: 08/20/13 09:15

Client ID: SB-1 (7-9) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	38.	1
Benzo(k)fluoranthene	ND		ug/kg	110	36.	1
Chrysene	ND		ug/kg	110	37.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	ND		ug/kg	110	31.	1
Benzo(ghi)perylene	ND		ug/kg	150	39.	1
Fluorene	ND		ug/kg	190	54.	1
Phenanthrene	ND		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	42.	1
Pyrene	ND		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	430	62.	1
4-Chloroaniline	ND		ug/kg	190	49.	1
2-Nitroaniline	ND		ug/kg	190	53.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	50.	1
Dibenzofuran	ND		ug/kg	190	62.	1
2-Methylnaphthalene	ND		ug/kg	220	60.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	58.	1
Acetophenone	ND		ug/kg	190	58.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
P-Chloro-M-Cresol	ND		ug/kg	190	54.	1
2-Chlorophenol	ND		ug/kg	190	56.	1
2,4-Dichlorophenol	ND		ug/kg	170	61.	1
2,4-Dimethylphenol	ND		ug/kg	190	56.	1
2-Nitrophenol	ND		ug/kg	400	58.	1
4-Nitrophenol	ND		ug/kg	260	61.	1
2,4-Dinitrophenol	ND		ug/kg	900	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	68.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	190	55.	1
2-Methylphenol	ND		ug/kg	190	60.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	61.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	61.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	40.	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-01 Date Collected: 08/20/13 09:15

Client ID: SB-1 (7-9) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, 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	54		25-120
Phenol-d6	55		10-120
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	96		0-136
4-Terphenyl-d14	99		18-120

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-02	Date Collected:	08/20/13 09:20
Client ID:	SB-1 (15-17)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	08/22/13 21:56
Analytical Date:	08/28/13 00:05		
Analyst:	JB		
Percent Solids:	83%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	41.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	65.	1
Hexachlorobenzene	ND		ug/kg	120	37.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	56.	1
2-Chloronaphthalene	ND		ug/kg	200	65.	1
1,2-Dichlorobenzene	ND		ug/kg	200	65.	1
1,3-Dichlorobenzene	ND		ug/kg	200	63.	1
1,4-Dichlorobenzene	ND		ug/kg	200	60.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	43.	1
2,6-Dinitrotoluene	ND		ug/kg	200	51.	1
Fluoranthene	ND		ug/kg	120	36.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	60.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	46.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	70.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	60.	1
Hexachlorobutadiene	ND		ug/kg	200	56.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	130	1
Hexachloroethane	ND		ug/kg	160	36.	1
Isophorone	ND		ug/kg	180	53.	1
Naphthalene	ND		ug/kg	200	66.	1
Nitrobenzene	ND		ug/kg	180	47.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	160	42.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	59.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	200	52.	1
Butyl benzyl phthalate	ND		ug/kg	200	39.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	49.	1
Diethyl phthalate	ND		ug/kg	200	42.	1
Dimethyl phthalate	ND		ug/kg	200	50.	1
Benzo(a)anthracene	ND		ug/kg	120	39.	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-02 Date Collected: 08/20/13 09:20

Client ID: SB-1 (15-17) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	40.	1
Benzo(k)fluoranthene	ND		ug/kg	120	38.	1
Chrysene	ND		ug/kg	120	39.	1
Acenaphthylene	ND		ug/kg	160	37.	1
Anthracene	ND		ug/kg	120	33.	1
Benzo(ghi)perylene	ND		ug/kg	160	41.	1
Fluorene	ND		ug/kg	200	57.	1
Phenanthrene	ND		ug/kg	120	39.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	38.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	160	44.	1
Pyrene	ND		ug/kg	120	39.	1
Biphenyl	ND		ug/kg	450	66.	1
4-Chloroaniline	ND		ug/kg	200	52.	1
2-Nitroaniline	ND		ug/kg	200	56.	1
3-Nitroaniline	ND		ug/kg	200	55.	1
4-Nitroaniline	ND		ug/kg	200	54.	1
Dibenzofuran	ND		ug/kg	200	66.	1
2-Methylnaphthalene	ND		ug/kg	240	63.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	62.	1
Acetophenone	ND		ug/kg	200	62.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
P-Chloro-M-Cresol	ND		ug/kg	200	58.	1
2-Chlorophenol	ND		ug/kg	200	60.	1
2,4-Dichlorophenol	ND		ug/kg	180	64.	1
2,4-Dimethylphenol	ND		ug/kg	200	59.	1
2-Nitrophenol	ND		ug/kg	430	62.	1
4-Nitrophenol	ND		ug/kg	280	64.	1
2,4-Dinitrophenol	ND		ug/kg	950	270	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	73.	1
Pentachlorophenol	ND		ug/kg	160	42.	1
Phenol	ND		ug/kg	200	59.	1
2-Methylphenol	ND		ug/kg	200	64.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	65.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	64.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	ND		ug/kg	200	43.	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-02 Date Collected: 08/20/13 09:20

Client ID: SB-1 (15-17) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, 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	59		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	95		0-136
4-Terphenyl-d14	86		18-120

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-03	Date Collected:	08/20/13 10:55
Client ID:	SB-2 (0-2)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	08/22/13 21:56
Analytical Date:	08/28/13 00:33		
Analyst:	JB		
Percent Solids:	94%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	36.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	57.	1
Hexachlorobenzene	ND		ug/kg	100	32.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	49.	1
2-Chloronaphthalene	ND		ug/kg	170	56.	1
1,2-Dichlorobenzene	ND		ug/kg	170	57.	1
1,3-Dichlorobenzene	ND		ug/kg	170	55.	1
1,4-Dichlorobenzene	ND		ug/kg	170	53.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	37.	1
2,6-Dinitrotoluene	ND		ug/kg	170	44.	1
Fluoranthene	980		ug/kg	100	32.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	53.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	40.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	61.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	52.	1
Hexachlorobutadiene	ND		ug/kg	170	49.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	110	1
Hexachloroethane	ND		ug/kg	140	32.	1
Isophorone	ND		ug/kg	160	46.	1
Naphthalene	ND		ug/kg	170	58.	1
Nitrobenzene	ND		ug/kg	160	41.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	140	36.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	52.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	170	45.	1
Butyl benzyl phthalate	ND		ug/kg	170	34.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	43.	1
Diethyl phthalate	ND		ug/kg	170	37.	1
Dimethyl phthalate	ND		ug/kg	170	44.	1
Benzo(a)anthracene	470		ug/kg	100	34.	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-03 Date Collected: 08/20/13 10:55

Client ID: SB-2 (0-2) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	450		ug/kg	140	42.	1
Benzo(b)fluoranthene	580		ug/kg	100	35.	1
Benzo(k)fluoranthene	240		ug/kg	100	33.	1
Chrysene	510		ug/kg	100	34.	1
Acenaphthylene	94	J	ug/kg	140	32.	1
Anthracene	140		ug/kg	100	29.	1
Benzo(ghi)perylene	260		ug/kg	140	36.	1
Fluorene	ND		ug/kg	170	50.	1
Phenanthrene	470		ug/kg	100	34.	1
Dibenzo(a,h)anthracene	74	J	ug/kg	100	34.	1
Indeno(1,2,3-cd)Pyrene	330		ug/kg	140	38.	1
Pyrene	990		ug/kg	100	34.	1
Biphenyl	ND		ug/kg	400	57.	1
4-Chloroaniline	ND		ug/kg	170	46.	1
2-Nitroaniline	ND		ug/kg	170	49.	1
3-Nitroaniline	ND		ug/kg	170	48.	1
4-Nitroaniline	ND		ug/kg	170	47.	1
Dibenzofuran	ND		ug/kg	170	58.	1
2-Methylnaphthalene	ND		ug/kg	210	55.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	54.	1
Acetophenone	ND		ug/kg	170	54.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
P-Chloro-M-Cresol	ND		ug/kg	170	50.	1
2-Chlorophenol	ND		ug/kg	170	52.	1
2,4-Dichlorophenol	ND		ug/kg	160	56.	1
2,4-Dimethylphenol	ND		ug/kg	170	52.	1
2-Nitrophenol	ND		ug/kg	370	54.	1
4-Nitrophenol	ND		ug/kg	240	56.	1
2,4-Dinitrophenol	ND		ug/kg	830	240	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	64.	1
Pentachlorophenol	ND		ug/kg	140	37.	1
Phenol	ND		ug/kg	170	51.	1
2-Methylphenol	ND		ug/kg	170	56.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	57.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	56.	1
Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	37.	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-03 Date Collected: 08/20/13 10:55

Client ID: SB-2 (0-2) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, 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	49		25-120
Phenol-d6	56		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	54		30-120
2,4,6-Tribromophenol	92		0-136
4-Terphenyl-d14	99		18-120

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-04	Date Collected:	08/20/13 11:00
Client ID:	SB-2 (18-20)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	08/22/13 21:56
Analytical Date:	08/28/13 01:00		
Analyst:	JB		
Percent Solids:	75%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	46.	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	57.	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	53.	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	43.	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
Benzo(a)anthracene	ND		ug/kg	130	43.	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-04 Date Collected: 08/20/13 11:00

Client ID: SB-2 (18-20) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	180	54.	1
Benzo(b)fluoranthene	ND		ug/kg	130	45.	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	83	J	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	71.	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	72.	1
2,4-Dimethylphenol	ND		ug/kg	220	66.	1
2-Nitrophenol	ND		ug/kg	480	69.	1
4-Nitrophenol	ND		ug/kg	310	72.	1
2,4-Dinitrophenol	ND		ug/kg	1100	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	72.	1
Benzoic Acid	ND		ug/kg	720	220	1
Benzyl Alcohol	ND		ug/kg	220	68.	1
Carbazole	ND		ug/kg	220	48.	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-04 Date Collected: 08/20/13 11:00

Client ID: SB-2 (18-20) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, 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	49		10-120
Nitrobenzene-d5	45		23-120
2-Fluorobiphenyl	50		30-120
2,4,6-Tribromophenol	90		0-136
4-Terphenyl-d14	82		18-120

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-05	Date Collected:	08/20/13 12:00
Client ID:	SB-3 (0-2)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	08/22/13 21:59
Analytical Date:	08/28/13 01:27		
Analyst:	JB		
Percent Solids:	91%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	57	J	ug/kg	150	38.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	60.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	51.	1
2-Chloronaphthalene	ND		ug/kg	180	60.	1
1,2-Dichlorobenzene	ND		ug/kg	180	60.	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	1100		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	64.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	55.	1
Hexachlorobutadiene	ND		ug/kg	180	52.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	120	1
Hexachloroethane	ND		ug/kg	150	33.	1
Isophorone	ND		ug/kg	160	49.	1
Naphthalene	340		ug/kg	180	61.	1
Nitrobenzene	ND		ug/kg	160	44.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	38.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	54.	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	35.	1
Di-n-octylphthalate	ND		ug/kg	180	45.	1
Diethyl phthalate	ND		ug/kg	180	39.	1
Dimethyl phthalate	ND		ug/kg	180	46.	1
Benzo(a)anthracene	460		ug/kg	110	36.	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-05 Date Collected: 08/20/13 12:00

Client ID: SB-3 (0-2) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	350		ug/kg	150	45.	1
Benzo(b)fluoranthene	490		ug/kg	110	37.	1
Benzo(k)fluoranthene	140		ug/kg	110	35.	1
Chrysene	590		ug/kg	110	36.	1
Acenaphthylene	600		ug/kg	150	34.	1
Anthracene	360		ug/kg	110	30.	1
Benzo(ghi)perylene	180		ug/kg	150	38.	1
Fluorene	220		ug/kg	180	52.	1
Phenanthrene	870		ug/kg	110	36.	1
Dibenzo(a,h)anthracene	60	J	ug/kg	110	35.	1
Indeno(1,2,3-cd)Pyrene	190		ug/kg	150	41.	1
Pyrene	1600		ug/kg	110	36.	1
Biphenyl	74	J	ug/kg	420	60.	1
4-Chloroaniline	ND		ug/kg	180	48.	1
2-Nitroaniline	ND		ug/kg	180	52.	1
3-Nitroaniline	ND		ug/kg	180	50.	1
4-Nitroaniline	ND		ug/kg	180	49.	1
Dibenzofuran	110	J	ug/kg	180	61.	1
2-Methylnaphthalene	320		ug/kg	220	58.	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	34.	1
P-Chloro-M-Cresol	ND		ug/kg	180	53.	1
2-Chlorophenol	ND		ug/kg	180	55.	1
2,4-Dichlorophenol	ND		ug/kg	160	59.	1
2,4-Dimethylphenol	ND		ug/kg	180	54.	1
2-Nitrophenol	ND		ug/kg	400	57.	1
4-Nitrophenol	ND		ug/kg	260	59.	1
2,4-Dinitrophenol	ND		ug/kg	880	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	67.	1
Pentachlorophenol	ND		ug/kg	150	39.	1
Phenol	ND		ug/kg	180	54.	1
2-Methylphenol	ND		ug/kg	180	59.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	60.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	59.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	39.	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-05 Date Collected: 08/20/13 12:00

Client ID: SB-3 (0-2) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, 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	46		25-120
Phenol-d6	55		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	103		0-136
4-Terphenyl-d14	97		18-120

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-06	Date Collected:	08/20/13 12:05
Client ID:	SB-3 (18-20)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	08/22/13 21:59
Analytical Date:	08/28/13 01:55		
Analyst:	JB		
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	62.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	53.	1
2-Chloronaphthalene	ND		ug/kg	190	62.	1
1,2-Dichlorobenzene	ND		ug/kg	190	62.	1
1,3-Dichlorobenzene	ND		ug/kg	190	60.	1
1,4-Dichlorobenzene	ND		ug/kg	190	58.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	ND		ug/kg	110	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	58.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	44.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	67.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	57.	1
Hexachlorobutadiene	ND		ug/kg	190	53.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	63.	1
Nitrobenzene	ND		ug/kg	170	45.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	50.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	46.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1
Benzo(a)anthracene	ND		ug/kg	110	37.	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-06 Date Collected: 08/20/13 12:05

Client ID: SB-3 (18-20) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	38.	1
Benzo(k)fluoranthene	ND		ug/kg	110	36.	1
Chrysene	ND		ug/kg	110	37.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	ND		ug/kg	110	32.	1
Benzo(ghi)perylene	ND		ug/kg	150	39.	1
Fluorene	ND		ug/kg	190	54.	1
Phenanthrene	ND		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	37.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	42.	1
Pyrene	ND		ug/kg	110	37.	1
Biphenyl	ND		ug/kg	430	62.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	53.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	51.	1
Dibenzofuran	ND		ug/kg	190	63.	1
2-Methylnaphthalene	ND		ug/kg	230	60.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	59.	1
Acetophenone	ND		ug/kg	190	59.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	55.	1
2-Chlorophenol	ND		ug/kg	190	57.	1
2,4-Dichlorophenol	ND		ug/kg	170	61.	1
2,4-Dimethylphenol	ND		ug/kg	190	56.	1
2-Nitrophenol	ND		ug/kg	410	59.	1
4-Nitrophenol	ND		ug/kg	260	61.	1
2,4-Dinitrophenol	ND		ug/kg	910	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	69.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	190	56.	1
2-Methylphenol	ND		ug/kg	190	61.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	62.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	61.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	41.	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-06 Date Collected: 08/20/13 12:05

Client ID: SB-3 (18-20) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, 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	58		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	97		0-136
4-Terphenyl-d14	77		18-120

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-07	Date Collected:	08/20/13 13:30
Client ID:	SB-4 (7-9)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	08/22/13 21:59
Analytical Date:	08/28/13 02:22		
Analyst:	JB		
Percent Solids:	70%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	190	48.	1
1,2,4-Trichlorobenzene	ND		ug/kg	230	77.	1
Hexachlorobenzene	ND		ug/kg	140	44.	1
Bis(2-chloroethyl)ether	ND		ug/kg	210	66.	1
2-Chloronaphthalene	ND		ug/kg	230	76.	1
1,2-Dichlorobenzene	ND		ug/kg	230	77.	1
1,3-Dichlorobenzene	ND		ug/kg	230	74.	1
1,4-Dichlorobenzene	ND		ug/kg	230	71.	1
3,3'-Dichlorobenzidine	ND		ug/kg	230	62.	1
2,4-Dinitrotoluene	ND		ug/kg	230	50.	1
2,6-Dinitrotoluene	ND		ug/kg	230	60.	1
Fluoranthene	ND		ug/kg	140	43.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	230	71.	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	54.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	280	82.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	250	71.	1
Hexachlorobutadiene	ND		ug/kg	230	66.	1
Hexachlorocyclopentadiene	ND		ug/kg	670	150	1
Hexachloroethane	ND		ug/kg	190	42.	1
Isophorone	ND		ug/kg	210	62.	1
Naphthalene	ND		ug/kg	230	78.	1
Nitrobenzene	ND		ug/kg	210	56.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	190	49.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	230	70.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	230	61.	1
Butyl benzyl phthalate	ND		ug/kg	230	46.	1
Di-n-butylphthalate	ND		ug/kg	230	45.	1
Di-n-octylphthalate	ND		ug/kg	230	58.	1
Diethyl phthalate	ND		ug/kg	230	50.	1
Dimethyl phthalate	ND		ug/kg	230	59.	1
Benzo(a)anthracene	ND		ug/kg	140	46.	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-07 Date Collected: 08/20/13 13:30

Client ID: SB-4 (7-9) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	190	57.	1
Benzo(b)fluoranthene	ND		ug/kg	140	47.	1
Benzo(k)fluoranthene	ND		ug/kg	140	45.	1
Chrysene	ND		ug/kg	140	46.	1
Acenaphthylene	ND		ug/kg	190	44.	1
Anthracene	ND		ug/kg	140	39.	1
Benzo(ghi)perylene	ND		ug/kg	190	49.	1
Fluorene	ND		ug/kg	230	67.	1
Phenanthrene	ND		ug/kg	140	46.	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	45.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	190	52.	1
Pyrene	ND		ug/kg	140	46.	1
Biphenyl	ND		ug/kg	530	77.	1
4-Chloroaniline	ND		ug/kg	230	62.	1
2-Nitroaniline	ND		ug/kg	230	66.	1
3-Nitroaniline	ND		ug/kg	230	65.	1
4-Nitroaniline	ND		ug/kg	230	63.	1
Dibenzofuran	ND		ug/kg	230	78.	1
2-Methylnaphthalene	ND		ug/kg	280	75.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	230	72.	1
Acetophenone	ND		ug/kg	230	73.	1
2,4,6-Trichlorophenol	ND		ug/kg	140	44.	1
P-Chloro-M-Cresol	ND		ug/kg	230	68.	1
2-Chlorophenol	ND		ug/kg	230	71.	1
2,4-Dichlorophenol	ND		ug/kg	210	76.	1
2,4-Dimethylphenol	ND		ug/kg	230	70.	1
2-Nitrophenol	ND		ug/kg	500	73.	1
4-Nitrophenol	ND		ug/kg	330	76.	1
2,4-Dinitrophenol	ND		ug/kg	1100	320	1
4,6-Dinitro-o-cresol	ND		ug/kg	610	86.	1
Pentachlorophenol	ND		ug/kg	190	50.	1
Phenol	ND		ug/kg	230	69.	1
2-Methylphenol	ND		ug/kg	230	75.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	340	77.	1
2,4,5-Trichlorophenol	ND		ug/kg	230	76.	1
Benzoic Acid	ND		ug/kg	760	240	1
Benzyl Alcohol	ND		ug/kg	230	72.	1
Carbazole	ND		ug/kg	230	50.	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-07 Date Collected: 08/20/13 13:30

Client ID: SB-4 (7-9) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, 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	51		25-120
Phenol-d6	56		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	92		0-136
4-Terphenyl-d14	107		18-120

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-08	Date Collected:	08/20/13 13:35
Client ID:	SB-4 (18-20)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	08/22/13 21:59
Analytical Date:	08/28/13 02:50		
Analyst:	JB		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	62.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	53.	1
2-Chloronaphthalene	ND		ug/kg	190	61.	1
1,2-Dichlorobenzene	ND		ug/kg	190	62.	1
1,3-Dichlorobenzene	ND		ug/kg	190	59.	1
1,4-Dichlorobenzene	ND		ug/kg	190	57.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	140		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	57.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	43.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	66.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	57.	1
Hexachlorobutadiene	ND		ug/kg	190	53.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	62.	1
Nitrobenzene	ND		ug/kg	170	45.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	49.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	46.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1
Benzo(a)anthracene	54	J	ug/kg	110	37.	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-08 Date Collected: 08/20/13 13:35

Client ID: SB-4 (18-20) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	50	J	ug/kg	150	46.	1
Benzo(b)fluoranthene	60	J	ug/kg	110	38.	1
Benzo(k)fluoranthene	ND		ug/kg	110	36.	1
Chrysene	56	J	ug/kg	110	37.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	31	J	ug/kg	110	31.	1
Benzo(ghi)perylene	ND		ug/kg	150	39.	1
Fluorene	ND		ug/kg	190	54.	1
Phenanthrene	140		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	42.	1
Pyrene	130		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	430	62.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	53.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	51.	1
Dibenzofuran	ND		ug/kg	190	63.	1
2-Methylnaphthalene	ND		ug/kg	220	60.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	58.	1
Acetophenone	ND		ug/kg	190	58.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	54.	1
2-Chlorophenol	ND		ug/kg	190	57.	1
2,4-Dichlorophenol	ND		ug/kg	170	61.	1
2,4-Dimethylphenol	ND		ug/kg	190	56.	1
2-Nitrophenol	ND		ug/kg	410	59.	1
4-Nitrophenol	ND		ug/kg	260	61.	1
2,4-Dinitrophenol	ND		ug/kg	900	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	69.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	190	56.	1
2-Methylphenol	ND		ug/kg	190	61.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	62.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	61.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	40.	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-08 Date Collected: 08/20/13 13:35

Client ID: SB-4 (18-20) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, 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	56		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	43		23-120
2-Fluorobiphenyl	53		30-120
2,4,6-Tribromophenol	100		0-136
4-Terphenyl-d14	76		18-120

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-09	Date Collected:	08/20/13 09:50
Client ID:	TW-1	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	08/23/13 09:08
Analytical Date:	08/26/13 23:07		
Analyst:	RC		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.67	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.55	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.45	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.46	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.61	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.67	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.50	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.40	1
Hexachlorocyclopentadiene	ND		ug/l	20	2.1	1
Isophorone	ND		ug/l	5.0	0.35	1
Nitrobenzene	ND		ug/l	2.0	0.50	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.70	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.39	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	0.46	1
Di-n-butylphthalate	ND		ug/l	5.0	0.54	1
Di-n-octylphthalate	ND		ug/l	5.0	0.53	1
Diethyl phthalate	ND		ug/l	5.0	0.45	1
Dimethyl phthalate	ND		ug/l	5.0	0.45	1
Biphenyl	ND		ug/l	2.0	0.50	1
4-Chloroaniline	ND		ug/l	5.0	0.83	1
2-Nitroaniline	ND		ug/l	5.0	0.40	1
3-Nitroaniline	ND		ug/l	5.0	0.59	1
4-Nitroaniline	ND		ug/l	5.0	0.55	1
Dibenzofuran	ND		ug/l	2.0	0.47	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.65	1
Acetophenone	ND		ug/l	5.0	0.55	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-09 Date Collected: 08/20/13 09:50

Client ID: TW-1 Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.45	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.50	1
2-Chlorophenol	ND		ug/l	2.0	0.34	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.43	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.2	1
2-Nitrophenol	ND		ug/l	10	0.48	1
4-Nitrophenol	ND		ug/l	10	1.2	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	0.59	1
Phenol	ND		ug/l	5.0	0.26	1
2-Methylphenol	ND		ug/l	5.0	0.53	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.47	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.45	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.47	1
Carbazole	ND		ug/l	2.0	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	58		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	71		41-149

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-09	Date Collected:	08/20/13 09:50
Client ID:	TW-1	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM	Extraction Date:	08/23/13 09:10
Analytical Date:	08/25/13 16:38		
Analyst:	HL		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.12	J	ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	2.1		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	0.17	J	ug/l	0.20	0.06	1
Benzo(a)anthracene	0.93		ug/l	0.20	0.06	1
Benzo(a)pyrene	0.87		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	1.0		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	0.46		ug/l	0.20	0.07	1
Chrysene	1.1		ug/l	0.20	0.05	1
Acenaphthylene	0.19	J	ug/l	0.20	0.05	1
Anthracene	0.34		ug/l	0.20	0.06	1
Benzo(ghi)perylene	0.62		ug/l	0.20	0.07	1
Fluorene	0.24		ug/l	0.20	0.06	1
Phenanthrene	1.9		ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	0.15	J	ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	0.54		ug/l	0.20	0.08	1
Pyrene	2.1		ug/l	0.20	0.06	1
2-Methylnaphthalene	0.08	J	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	31		21-120
Phenol-d6	20		10-120
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	51		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	48		41-149

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-10	Date Collected:	08/20/13 11:20
Client ID:	TW-2	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	08/23/13 09:08
Analytical Date:	08/26/13 23:33		
Analyst:	RC		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.67	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.55	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.45	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.46	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.61	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.67	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.50	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.40	1
Hexachlorocyclopentadiene	ND		ug/l	20	2.1	1
Isophorone	ND		ug/l	5.0	0.35	1
Nitrobenzene	ND		ug/l	2.0	0.50	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.70	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.39	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	0.46	1
Di-n-butylphthalate	ND		ug/l	5.0	0.54	1
Di-n-octylphthalate	ND		ug/l	5.0	0.53	1
Diethyl phthalate	ND		ug/l	5.0	0.45	1
Dimethyl phthalate	ND		ug/l	5.0	0.45	1
Biphenyl	ND		ug/l	2.0	0.50	1
4-Chloroaniline	ND		ug/l	5.0	0.83	1
2-Nitroaniline	ND		ug/l	5.0	0.40	1
3-Nitroaniline	ND		ug/l	5.0	0.59	1
4-Nitroaniline	ND		ug/l	5.0	0.55	1
Dibenzofuran	ND		ug/l	2.0	0.47	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.65	1
Acetophenone	ND		ug/l	5.0	0.55	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-10 Date Collected: 08/20/13 11:20

Client ID: TW-2 Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.45	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.50	1
2-Chlorophenol	ND		ug/l	2.0	0.34	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.43	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.2	1
2-Nitrophenol	ND		ug/l	10	0.48	1
4-Nitrophenol	ND		ug/l	10	1.2	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	0.59	1
Phenol	ND		ug/l	5.0	0.26	1
2-Methylphenol	ND		ug/l	5.0	0.53	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.47	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.45	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.47	1
Carbazole	ND		ug/l	2.0	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	59		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	72		41-149

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-10	Date Collected:	08/20/13 11:20
Client ID:	TW-2	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM	Extraction Date:	08/23/13 09:10
Analytical Date:	08/25/13 17:02		
Analyst:	HL		

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	ND		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	ND		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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		21-120
Phenol-d6	22		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	63		10-120
4-Terphenyl-d14	55		41-149

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-11	Date Collected:	08/20/13 13:00
Client ID:	TW-3	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	08/23/13 09:08
Analytical Date:	08/26/13 23:59		
Analyst:	RC		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.67	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.55	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.45	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.46	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.61	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.67	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.50	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.40	1
Hexachlorocyclopentadiene	ND		ug/l	20	2.1	1
Isophorone	ND		ug/l	5.0	0.35	1
Nitrobenzene	ND		ug/l	2.0	0.50	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.70	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.39	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	0.46	1
Di-n-butylphthalate	ND		ug/l	5.0	0.54	1
Di-n-octylphthalate	ND		ug/l	5.0	0.53	1
Diethyl phthalate	ND		ug/l	5.0	0.45	1
Dimethyl phthalate	ND		ug/l	5.0	0.45	1
Biphenyl	ND		ug/l	2.0	0.50	1
4-Chloroaniline	ND		ug/l	5.0	0.83	1
2-Nitroaniline	ND		ug/l	5.0	0.40	1
3-Nitroaniline	ND		ug/l	5.0	0.59	1
4-Nitroaniline	ND		ug/l	5.0	0.55	1
Dibenzofuran	ND		ug/l	2.0	0.47	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.65	1
Acetophenone	ND		ug/l	5.0	0.55	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-11 Date Collected: 08/20/13 13:00

Client ID: TW-3 Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.45	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.50	1
2-Chlorophenol	ND		ug/l	2.0	0.34	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.43	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.2	1
2-Nitrophenol	ND		ug/l	10	0.48	1
4-Nitrophenol	ND		ug/l	10	1.2	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	0.59	1
Phenol	ND		ug/l	5.0	0.26	1
2-Methylphenol	ND		ug/l	5.0	0.53	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.47	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.45	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.47	1
Carbazole	ND		ug/l	2.0	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	103		10-120
4-Terphenyl-d14	84		41-149

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-11	Date Collected:	08/20/13 13:00
Client ID:	TW-3	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM	Extraction Date:	08/23/13 09:10
Analytical Date:	08/25/13 17:27		
Analyst:	HL		

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	ND		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	ND		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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		21-120
Phenol-d6	21		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	54		15-120
2,4,6-Tribromophenol	70		10-120
4-Terphenyl-d14	56		41-149

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-12	Date Collected:	08/20/13 14:00
Client ID:	TW-4	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	08/23/13 09:08
Analytical Date:	08/27/13 00:24		
Analyst:	RC		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.67	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.55	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.45	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.46	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.61	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.67	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.50	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.40	1
Hexachlorocyclopentadiene	ND		ug/l	20	2.1	1
Isophorone	ND		ug/l	5.0	0.35	1
Nitrobenzene	ND		ug/l	2.0	0.50	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.70	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.39	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	0.46	1
Di-n-butylphthalate	ND		ug/l	5.0	0.54	1
Di-n-octylphthalate	ND		ug/l	5.0	0.53	1
Diethyl phthalate	ND		ug/l	5.0	0.45	1
Dimethyl phthalate	ND		ug/l	5.0	0.45	1
Biphenyl	ND		ug/l	2.0	0.50	1
4-Chloroaniline	ND		ug/l	5.0	0.83	1
2-Nitroaniline	ND		ug/l	5.0	0.40	1
3-Nitroaniline	ND		ug/l	5.0	0.59	1
4-Nitroaniline	ND		ug/l	5.0	0.55	1
Dibenzofuran	ND		ug/l	2.0	0.47	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.65	1
Acetophenone	ND		ug/l	5.0	0.55	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-12 Date Collected: 08/20/13 14:00

Client ID: TW-4 Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.45	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.50	1
2-Chlorophenol	ND		ug/l	2.0	0.34	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.43	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.2	1
2-Nitrophenol	ND		ug/l	10	0.48	1
4-Nitrophenol	ND		ug/l	10	1.2	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	0.59	1
Phenol	ND		ug/l	5.0	0.26	1
2-Methylphenol	ND		ug/l	5.0	0.53	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.47	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.45	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.47	1
Carbazole	ND		ug/l	2.0	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	102		10-120
4-Terphenyl-d14	86		41-149

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-12	Date Collected:	08/20/13 14:00
Client ID:	TW-4	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM	Extraction Date:	08/23/13 09:10
Analytical Date:	08/25/13 17:51		
Analyst:	HL		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.07	J	ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	0.07	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	0.18	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	55		41-149

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-13	Date Collected:	08/20/13 10:00
Client ID:	SB-5 (0-2)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	08/22/13 21:59
Analytical Date:	08/28/13 03:17		
Analyst:	JB		
Percent Solids:	63%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	210	54.	1
1,2,4-Trichlorobenzene	ND		ug/kg	260	85.	1
Hexachlorobenzene	ND		ug/kg	160	48.	1
Bis(2-chloroethyl)ether	ND		ug/kg	230	73.	1
2-Chloronaphthalene	ND		ug/kg	260	85.	1
1,2-Dichlorobenzene	ND		ug/kg	260	85.	1
1,3-Dichlorobenzene	ND		ug/kg	260	82.	1
1,4-Dichlorobenzene	ND		ug/kg	260	79.	1
3,3'-Dichlorobenzidine	ND		ug/kg	260	69.	1
2,4-Dinitrotoluene	ND		ug/kg	260	56.	1
2,6-Dinitrotoluene	ND		ug/kg	260	66.	1
Fluoranthene	210		ug/kg	160	48.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	260	79.	1
4-Bromophenyl phenyl ether	ND		ug/kg	260	60.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	310	92.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	280	79.	1
Hexachlorobutadiene	ND		ug/kg	260	73.	1
Hexachlorocyclopentadiene	ND		ug/kg	740	170	1
Hexachloroethane	ND		ug/kg	210	47.	1
Isophorone	ND		ug/kg	230	69.	1
Naphthalene	ND		ug/kg	260	86.	1
Nitrobenzene	ND		ug/kg	230	62.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	210	55.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	260	77.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	260	68.	1
Butyl benzyl phthalate	ND		ug/kg	260	51.	1
Di-n-butylphthalate	ND		ug/kg	260	50.	1
Di-n-octylphthalate	ND		ug/kg	260	64.	1
Diethyl phthalate	ND		ug/kg	260	55.	1
Dimethyl phthalate	ND		ug/kg	260	66.	1
Benzo(a)anthracene	120	J	ug/kg	160	51.	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-13 Date Collected: 08/20/13 10:00

Client ID: SB-5 (0-2) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	130	J	ug/kg	210	64.	1
Benzo(b)fluoranthene	180		ug/kg	160	52.	1
Benzo(k)fluoranthene	69	J	ug/kg	160	50.	1
Chrysene	140	J	ug/kg	160	51.	1
Acenaphthylene	ND		ug/kg	210	49.	1
Anthracene	ND		ug/kg	160	43.	1
Benzo(ghi)perylene	110	J	ug/kg	210	54.	1
Fluorene	ND		ug/kg	260	74.	1
Phenanthrene	51	J	ug/kg	160	51.	1
Dibenzo(a,h)anthracene	ND		ug/kg	160	50.	1
Indeno(1,2,3-cd)Pyrene	110	J	ug/kg	210	58.	1
Pyrene	200		ug/kg	160	50.	1
Biphenyl	ND		ug/kg	590	86.	1
4-Chloroaniline	ND		ug/kg	260	69.	1
2-Nitroaniline	ND		ug/kg	260	73.	1
3-Nitroaniline	ND		ug/kg	260	72.	1
4-Nitroaniline	ND		ug/kg	260	70.	1
Dibenzofuran	ND		ug/kg	260	87.	1
2-Methylnaphthalene	ND		ug/kg	310	83.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	260	80.	1
Acetophenone	ND		ug/kg	260	81.	1
2,4,6-Trichlorophenol	ND		ug/kg	160	49.	1
P-Chloro-M-Cresol	ND		ug/kg	260	75.	1
2-Chlorophenol	ND		ug/kg	260	78.	1
2,4-Dichlorophenol	ND		ug/kg	230	84.	1
2,4-Dimethylphenol	ND		ug/kg	260	77.	1
2-Nitrophenol	ND		ug/kg	560	81.	1
4-Nitrophenol	ND		ug/kg	360	84.	1
2,4-Dinitrophenol	ND		ug/kg	1200	360	1
4,6-Dinitro-o-cresol	ND		ug/kg	680	95.	1
Pentachlorophenol	ND		ug/kg	210	56.	1
Phenol	ND		ug/kg	260	77.	1
2-Methylphenol	ND		ug/kg	260	84.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	370	85.	1
2,4,5-Trichlorophenol	ND		ug/kg	260	84.	1
Benzoic Acid	ND		ug/kg	840	260	1
Benzyl Alcohol	ND		ug/kg	260	80.	1
Carbazole	ND		ug/kg	260	56.	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-13 Date Collected: 08/20/13 10:00

Client ID: SB-5 (0-2) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, 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	49		25-120
Phenol-d6	54		10-120
Nitrobenzene-d5	46		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	105		0-136
4-Terphenyl-d14	81		18-120

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-14	Date Collected:	08/20/13 10:30
Client ID:	SB-5 (18-20)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	08/22/13 21:59
Analytical Date:	08/28/13 03:44		
Analyst:	JB		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	38.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	60.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	52.	1
2-Chloronaphthalene	ND		ug/kg	180	60.	1
1,2-Dichlorobenzene	ND		ug/kg	180	60.	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	ND		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	33.	1
Isophorone	ND		ug/kg	160	49.	1
Naphthalene	ND		ug/kg	180	61.	1
Nitrobenzene	ND		ug/kg	160	44.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	38.	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	35.	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
Benzo(a)anthracene	ND		ug/kg	110	36.	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-14 Date Collected: 08/20/13 10:30

Client ID: SB-5 (18-20) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	37.	1
Benzo(k)fluoranthene	ND		ug/kg	110	35.	1
Chrysene	ND		ug/kg	110	36.	1
Acenaphthylene	ND		ug/kg	150	34.	1
Anthracene	ND		ug/kg	110	30.	1
Benzo(ghi)perylene	ND		ug/kg	150	38.	1
Fluorene	ND		ug/kg	180	53.	1
Phenanthrene	ND		ug/kg	110	36.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	41.	1
Pyrene	ND		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	420	61.	1
4-Chloroaniline	ND		ug/kg	180	48.	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	ND		ug/kg	180	61.	1
2-Methylnaphthalene	ND		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	53.	1
2-Chlorophenol	ND		ug/kg	180	56.	1
2,4-Dichlorophenol	ND		ug/kg	160	60.	1
2,4-Dimethylphenol	ND		ug/kg	180	55.	1
2-Nitrophenol	ND		ug/kg	400	57.	1
4-Nitrophenol	ND		ug/kg	260	60.	1
2,4-Dinitrophenol	ND		ug/kg	880	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	67.	1
Pentachlorophenol	ND		ug/kg	150	39.	1
Phenol	ND		ug/kg	180	54.	1
2-Methylphenol	ND		ug/kg	180	59.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	60.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	60.	1
Benzoic Acid	ND		ug/kg	600	180	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	ND		ug/kg	180	40.	1

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-14 Date Collected: 08/20/13 10:30

Client ID: SB-5 (18-20) Date Received: 08/20/13

Sample Location: 475 BAY STREET, SI, 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	42		25-120
Phenol-d6	44		10-120
Nitrobenzene-d5	43		23-120
2-Fluorobiphenyl	54		30-120
2,4,6-Tribromophenol	77		0-136
4-Terphenyl-d14	74		18-120

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/27/13 18:35
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 08/22/13 21:56

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08,13-14 Batch: WG630962-1					
Acenaphthene	ND		ug/kg	130	33.
1,2,4-Trichlorobenzene	ND		ug/kg	160	53.
Hexachlorobenzene	ND		ug/kg	97	30.
Bis(2-chloroethyl)ether	ND		ug/kg	140	45.
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	49.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	41.
Fluoranthene	ND		ug/kg	97	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	49.
4-Bromophenyl phenyl ether	ND		ug/kg	160	37.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	57.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	49.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	460	100
Hexachloroethane	ND		ug/kg	130	29.
Isophorone	ND		ug/kg	140	43.
Naphthalene	ND		ug/kg	160	54.
Nitrobenzene	ND		ug/kg	140	38.
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	42.
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.
Dimethyl phthalate	ND		ug/kg	160	41.

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/27/13 18:35
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 08/22/13 21:56

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08,13-14 Batch: WG630962-1					
Benzo(a)anthracene	ND		ug/kg	97	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	33.
Benzo(k)fluoranthene	ND		ug/kg	97	31.
Chrysene	ND		ug/kg	97	32.
Acenaphthylene	ND		ug/kg	130	30.
Anthracene	ND		ug/kg	97	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	46.
Phenanthrene	ND		ug/kg	97	32.
Dibenzo(a,h)anthracene	ND		ug/kg	97	31.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	97	31.
Biphenyl	ND		ug/kg	370	53.
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	190	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	50.
Acetophenone	ND		ug/kg	160	50.
2,4,6-Trichlorophenol	ND		ug/kg	97	30.
P-Chloro-M-Cresol	ND		ug/kg	160	47.
2-Chlorophenol	ND		ug/kg	160	49.
2,4-Dichlorophenol	ND		ug/kg	140	52.
2,4-Dimethylphenol	ND		ug/kg	160	48.
2-Nitrophenol	ND		ug/kg	350	50.
4-Nitrophenol	ND		ug/kg	230	52.
2,4-Dinitrophenol	ND		ug/kg	780	220

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/27/13 18:35
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 08/22/13 21:56

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08,13-14 Batch: WG630962-1					
4,6-Dinitro-o-cresol	ND		ug/kg	420	59.
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	52.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		25-120
Phenol-d6	50		10-120
Nitrobenzene-d5	49		23-120
2-Fluorobiphenyl	57		30-120
2,4,6-Tribromophenol	85		0-136
4-Terphenyl-d14	92		18-120

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/26/13 18:49
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 08/23/13 09:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09-12 Batch: WG631075-1					
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.67
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39
1,2-Dichlorobenzene	ND		ug/l	2.0	0.55
1,3-Dichlorobenzene	ND		ug/l	2.0	0.55
1,4-Dichlorobenzene	ND		ug/l	2.0	0.55
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85
2,4-Dinitrotoluene	ND		ug/l	5.0	0.45
2,6-Dinitrotoluene	ND		ug/l	5.0	0.46
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.61
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.67
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.50
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.40
Hexachlorocyclopentadiene	ND		ug/l	20	2.1
Isophorone	ND		ug/l	5.0	0.35
Nitrobenzene	ND		ug/l	2.0	0.50
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.70
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.39
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4
Butyl benzyl phthalate	ND		ug/l	5.0	0.46
Di-n-butylphthalate	ND		ug/l	5.0	0.54
Di-n-octylphthalate	ND		ug/l	5.0	0.53
Diethyl phthalate	ND		ug/l	5.0	0.45
Dimethyl phthalate	ND		ug/l	5.0	0.45
Biphenyl	ND		ug/l	2.0	0.50
4-Chloroaniline	ND		ug/l	5.0	0.83
2-Nitroaniline	ND		ug/l	5.0	0.40
3-Nitroaniline	ND		ug/l	5.0	0.59
4-Nitroaniline	ND		ug/l	5.0	0.55
Dibenzofuran	ND		ug/l	2.0	0.47
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.65
Acetophenone	ND		ug/l	5.0	0.55

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/26/13 18:49
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 08/23/13 09:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09-12 Batch: WG631075-1					
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.45
P-Chloro-M-Cresol	ND		ug/l	2.0	0.50
2-Chlorophenol	ND		ug/l	2.0	0.34
2,4-Dichlorophenol	ND		ug/l	5.0	0.43
2,4-Dimethylphenol	ND		ug/l	5.0	1.2
2-Nitrophenol	ND		ug/l	10	0.48
4-Nitrophenol	ND		ug/l	10	1.2
2,4-Dinitrophenol	ND		ug/l	20	1.4
4,6-Dinitro-o-cresol	ND		ug/l	10	0.59
Phenol	ND		ug/l	5.0	0.26
2-Methylphenol	ND		ug/l	5.0	0.53
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.47
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.45
Benzoic Acid	ND		ug/l	50	1.0
Benzyl Alcohol	ND		ug/l	2.0	0.47
Carbazole	ND		ug/l	2.0	0.53

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	73		41-149

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/26/13 09:39
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 08/23/13 09:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 09-12 Batch: WG631080-1					
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: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/26/13 09:39
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 08/23/13 09:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 09-12 Batch: WG631080-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		21-120
Phenol-d6	21		10-120
Nitrobenzene-d5	54		23-120
2-Fluorobiphenyl	51		15-120
2,4,6-Tribromophenol	52		10-120
4-Terphenyl-d14	50		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316206

Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08,13-14 Batch: WG630962-2 WG630962-3								
Acenaphthene	68		80		31-137	16		50
1,2,4-Trichlorobenzene	52		69		38-107	28		50
Hexachlorobenzene	115		113		40-140	2		50
Bis(2-chloroethyl)ether	46		57		40-140	21		50
2-Chloronaphthalene	64		82		40-140	25		50
1,2-Dichlorobenzene	51		62		40-140	19		50
1,3-Dichlorobenzene	50		61		40-140	20		50
1,4-Dichlorobenzene	50		62		28-104	21		50
3,3'-Dichlorobenzidine	74		76		40-140	3		50
2,4-Dinitrotoluene	**96**	Q	**110**	Q	28-89	14		50
2,6-Dinitrotoluene	93		108		40-140	15		50
Fluoranthene	93		99		40-140	6		50
4-Chlorophenyl phenyl ether	82		87		40-140	6		50
4-Bromophenyl phenyl ether	104		103		40-140	1		50
Bis(2-chloroisopropyl)ether	**27**	Q	**33**	Q	40-140	20		50
Bis(2-chloroethoxy)methane	55		68		40-117	21		50
Hexachlorobutadiene	56		74		40-140	28		50
Hexachlorocyclopentadiene	59		73		40-140	21		50
Hexachloroethane	50		60		40-140	18		50
Isophorone	58		70		40-140	19		50
Naphthalene	54		69		40-140	24		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316206

Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08,13-14 Batch: WG630962-2 WG630962-3								
Nitrobenzene	51		65		40-140	24		50
NitrosoDiPhenylAmine(NDPA)/DPA	101		99			2		50
n-Nitrosodi-n-propylamine	53		64		32-121	19		50
Bis(2-Ethylhexyl)phthalate	87		96		40-140	10		50
Butyl benzyl phthalate	109		107		40-140	2		50
Di-n-butylphthalate	96		101		40-140	5		50
Di-n-octylphthalate	86		99		40-140	14		50
Diethyl phthalate	88		101		40-140	14		50
Dimethyl phthalate	86		90		40-140	5		50
Benzo(a)anthracene	83		89		40-140	7		50
Benzo(a)pyrene	86		92		40-140	7		50
Benzo(b)fluoranthene	84		90		40-140	7		50
Benzo(k)fluoranthene	82		89		40-140	8		50
Chrysene	81		91		40-140	12		50
Acenaphthylene	74		91		40-140	21		50
Anthracene	85		92		40-140	8		50
Benzo(ghi)perylene	85		90		40-140	6		50
Fluorene	83		90		40-140	8		50
Phenanthrene	81		85		40-140	5		50
Dibenzo(a,h)anthracene	89		89		40-140	0		50
Indeno(1,2,3-cd)Pyrene	89		88		40-140	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316206

Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08,13-14 Batch: WG630962-2 WG630962-3								
Pyrene	98		106		35-142	8		50
Biphenyl	62		74			18		50
4-Chloroaniline	48		44		40-140	9		50
2-Nitroaniline	86		99		47-134	14		50
3-Nitroaniline	67		73		26-129	9		50
4-Nitroaniline	99		94		41-125	5		50
Dibenzofuran	71		83		40-140	16		50
2-Methylnaphthalene	65		79		40-140	19		50
1,2,4,5-Tetrachlorobenzene	62		69		40-117	11		50
Acetophenone	57		70		14-144	20		50
2,4,6-Trichlorophenol	80		92		30-130	14		50
P-Chloro-M-Cresol	88		96		26-103	9		50
2-Chlorophenol	58		73		25-102	23		50
2,4-Dichlorophenol	69		86		30-130	22		50
2,4-Dimethylphenol	75		90		30-130	18		50
2-Nitrophenol	68		87		30-130	25		50
4-Nitrophenol	70		82		11-114	16		50
2,4-Dinitrophenol	88		98		4-130	11		50
4,6-Dinitro-o-cresol	113		112		10-130	1		50
Pentachlorophenol	81		88		17-109	8		50
Phenol	54		70		26-90	26		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316206

Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08,13-14 Batch: WG630962-2 WG630962-3								
2-Methylphenol	61		76		30-130.	22		50
3-Methylphenol/4-Methylphenol	64		76		30-130	17		50
2,4,5-Trichlorophenol	88		104		30-130	17		50
Benzoic Acid	36		42			15		50
Benzyl Alcohol	57		70		40-140	20		50
Carbazole	89		94		54-128	5		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	55		65		25-120
Phenol-d6	59		69		10-120
Nitrobenzene-d5	57		65		23-120
2-Fluorobiphenyl	64		78		30-120
2,4,6-Tribromophenol	108		109		0-136
4-Terphenyl-d14	103		100		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316206

Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-12 Batch: WG631075-2 WG631075-3								
1,2,4-Trichlorobenzene	53		56		39-98	6		30
Bis(2-chloroethyl)ether	62		66		40-140	6		30
1,2-Dichlorobenzene	51		55		40-140	8		30
1,3-Dichlorobenzene	50		53		40-140	6		30
1,4-Dichlorobenzene	51		54		36-97	6		30
3,3'-Dichlorobenzidine	65		67		40-140	3		30
2,4-Dinitrotoluene	96		95		24-96	1		30
2,6-Dinitrotoluene	94		95		40-140	1		30
4-Chlorophenyl phenyl ether	81		84		40-140	4		30
4-Bromophenyl phenyl ether	89		92		40-140	3		30
Bis(2-chloroisopropyl)ether	59		61		40-140	3		30
Bis(2-chloroethoxy)methane	65		68		40-140	5		30
Hexachlorocyclopentadiene	44		50		40-140	13		30
Isophorone	66		72		40-140	9		30
Nitrobenzene	65		68		40-140	5		30
NitrosoDiPhenylAmine(NDPA)/DPA	88		89		40-140	1		30
n-Nitrosodi-n-propylamine	63		70		29-132	11		30
Bis(2-Ethylhexyl)phthalate	98		98		40-140	0		30
Butyl benzyl phthalate	96		97		40-140	1		30
Di-n-butylphthalate	96		99		40-140	3		30
Di-n-octylphthalate	93		92		40-140	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316206

Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-12 Batch: WG631075-2 WG631075-3								
Diethyl phthalate	96		94		40-140	2		30
Dimethyl phthalate	90		91		40-140	1		30
Biphenyl	59		65			10		30
4-Chloroaniline	52		58		40-140	11		30
2-Nitroaniline	86		90		52-143	5		30
3-Nitroaniline	68		71		25-145	4		30
4-Nitroaniline	91		89		51-143	2		30
Dibenzofuran	76		80		40-140	5		30
1,2,4,5-Tetrachlorobenzene	52		59		2-134	13		30
Acetophenone	61		65		39-129	6		30
2,4,6-Trichlorophenol	86		91		30-130	6		30
P-Chloro-M-Cresol	84		87		23-97	4		30
2-Chlorophenol	64		68		27-123	6		30
2,4-Dichlorophenol	72		77		30-130	7		30
2,4-Dimethylphenol	67		71		30-130	6		30
2-Nitrophenol	65		72		30-130	10		30
4-Nitrophenol	53		52		10-80	2		30
2,4-Dinitrophenol	100		106		20-130	6		30
4,6-Dinitro-o-cresol	115		110		20-164	4		30
Phenol	32		33		12-110	3		30
2-Methylphenol	62		63		30-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-12 Batch: WG631075-2 WG631075-3								
3-Methylphenol/4-Methylphenol	58		63		30-130	8		30
2,4,5-Trichlorophenol	87		89		30-130	2		30
Benzoic Acid	31		34			9		30
Benzyl Alcohol	56		60			7		30
Carbazole	92		93		55-144	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	45		46		21-120
Phenol-d6	31		33		10-120
Nitrobenzene-d5	64		69		23-120
2-Fluorobiphenyl	69		74		15-120
2,4,6-Tribromophenol	115		120		10-120
4-Terphenyl-d14	92		92		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 09-12 Batch: WG631080-2 WG631080-3								
Acenaphthene	62		56		37-111	10		40
2-Chloronaphthalene	64		59		40-140	8		40
Fluoranthene	80		79		40-140	1		40
Hexachlorobutadiene	52		44		40-140	17		40
Naphthalene	61		55		40-140	10		40
Benzo(a)anthracene	74		74		40-140	0		40
Benzo(a)pyrene	71		69		40-140	3		40
Benzo(b)fluoranthene	82		68		40-140	19		40
Benzo(k)fluoranthene	68		78		40-140	14		40
Chrysene	69		70		40-140	1		40
Acenaphthylene	70		64		40-140	9		40
Anthracene	72		69		40-140	4		40
Benzo(ghi)perylene	74		64		40-140	14		40
Fluorene	66		60		40-140	10		40
Phenanthrene	68		64		40-140	6		40
Dibenzo(a,h)anthracene	76		64		40-140	17		40
Indeno(1,2,3-cd)Pyrene	77		65		40-140	17		40
Pyrene	74		73		26-127	1		40
2-Methylnaphthalene	58		52		40-140	11		40
Pentachlorophenol	82		76		9-103	8		40
Hexachlorobenzene	72		64		40-140	12		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316206

Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 09-12 Batch: WG631080-2 WG631080-3								
Hexachloroethane	58		50		40-140	15		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	38		36		21-120
Phenol-d6	28		24		10-120
Nitrobenzene-d5	63		54		23-120
2-Fluorobiphenyl	65		60		15-120
2,4,6-Tribromophenol	74		69		10-120
4-Terphenyl-d14	79		76		41-149

PCBS

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-01	Date Collected:	08/20/13 09:15
Client ID:	SB-1 (7-9)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	08/21/13 18:40
Analytical Date:	08/22/13 16:36	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	08/22/13
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	37.8	7.46	1
Aroclor 1221	ND		ug/kg	37.8	11.4	1
Aroclor 1232	ND		ug/kg	37.8	8.02	1
Aroclor 1242	ND		ug/kg	37.8	7.17	1
Aroclor 1248	ND		ug/kg	37.8	4.57	1
Aroclor 1254	ND		ug/kg	37.8	5.96	1
Aroclor 1260	ND		ug/kg	37.8	6.56	1
Aroclor 1262	ND		ug/kg	37.8	2.79	1
Aroclor 1268	ND		ug/kg	37.8	5.48	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	49		30-150
Decachlorobiphenyl	59		30-150
2,4,5,6-Tetrachloro-m-xylene	48		30-150
Decachlorobiphenyl	63		30-150

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-02	Date Collected:	08/20/13 09:20
Client ID:	SB-1 (15-17)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	08/21/13 18:40
Analytical Date:	08/22/13 16:48	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	08/22/13
Percent Solids:	83%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	39.2	7.74	1
Aroclor 1221	ND		ug/kg	39.2	11.8	1
Aroclor 1232	ND		ug/kg	39.2	8.32	1
Aroclor 1242	ND		ug/kg	39.2	7.43	1
Aroclor 1248	ND		ug/kg	39.2	4.74	1
Aroclor 1254	ND		ug/kg	39.2	6.18	1
Aroclor 1260	ND		ug/kg	39.2	6.80	1
Aroclor 1262	ND		ug/kg	39.2	2.90	1
Aroclor 1268	ND		ug/kg	39.2	5.68	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	55		30-150
Decachlorobiphenyl	63		30-150
2,4,5,6-Tetrachloro-m-xylene	49		30-150
Decachlorobiphenyl	60		30-150

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-03	Date Collected:	08/20/13 10:55
Client ID:	SB-2 (0-2)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	08/21/13 18:40
Analytical Date:	08/22/13 17:00	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	08/22/13
Percent Solids:	94%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	34.2	6.76	1
Aroclor 1221	ND		ug/kg	34.2	10.3	1
Aroclor 1232	ND		ug/kg	34.2	7.28	1
Aroclor 1242	ND		ug/kg	34.2	6.50	1
Aroclor 1248	ND		ug/kg	34.2	4.14	1
Aroclor 1254	ND		ug/kg	34.2	5.40	1
Aroclor 1260	ND		ug/kg	34.2	5.94	1
Aroclor 1262	ND		ug/kg	34.2	2.53	1
Aroclor 1268	ND		ug/kg	34.2	4.97	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	57		30-150
Decachlorobiphenyl	63		30-150
2,4,5,6-Tetrachloro-m-xylene	49		30-150
Decachlorobiphenyl	71		30-150

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-04	Date Collected:	08/20/13 11:00
Client ID:	SB-2 (18-20)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	08/21/13 18:40
Analytical Date:	08/22/13 17:12	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	08/22/13
Percent Solids:	75%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	43.5	8.58	1
Aroclor 1221	ND		ug/kg	43.5	13.1	1
Aroclor 1232	ND		ug/kg	43.5	9.23	1
Aroclor 1242	ND		ug/kg	43.5	8.25	1
Aroclor 1248	ND		ug/kg	43.5	5.26	1
Aroclor 1254	ND		ug/kg	43.5	6.85	1
Aroclor 1260	ND		ug/kg	43.5	7.54	1
Aroclor 1262	ND		ug/kg	43.5	3.21	1
Aroclor 1268	ND		ug/kg	43.5	6.30	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	60		30-150
Decachlorobiphenyl	71		30-150
2,4,5,6-Tetrachloro-m-xylene	59		30-150
Decachlorobiphenyl	75		30-150

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-05	Date Collected:	08/20/13 12:00
Client ID:	SB-3 (0-2)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	08/21/13 18:40
Analytical Date:	08/22/13 17:25	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	08/22/13
Percent Solids:	91%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.3	7.17	1
Aroclor 1221	ND		ug/kg	36.3	10.9	1
Aroclor 1232	ND		ug/kg	36.3	7.71	1
Aroclor 1242	ND		ug/kg	36.3	6.89	1
Aroclor 1248	ND		ug/kg	36.3	4.39	1
Aroclor 1254	ND		ug/kg	36.3	5.72	1
Aroclor 1260	ND		ug/kg	36.3	6.30	1
Aroclor 1262	ND		ug/kg	36.3	2.68	1
Aroclor 1268	ND		ug/kg	36.3	5.26	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	39		30-150
Decachlorobiphenyl	52		30-150
2,4,5,6-Tetrachloro-m-xylene	31		30-150
Decachlorobiphenyl	53		30-150

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-06	Date Collected:	08/20/13 12:05
Client ID:	SB-3 (18-20)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	08/21/13 18:40
Analytical Date:	08/22/13 17:37	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	08/22/13
Percent Solids:	85%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	38.6	7.62	1
Aroclor 1221	ND		ug/kg	38.6	11.6	1
Aroclor 1232	ND		ug/kg	38.6	8.20	1
Aroclor 1242	ND		ug/kg	38.6	7.32	1
Aroclor 1248	ND		ug/kg	38.6	4.67	1
Aroclor 1254	ND		ug/kg	38.6	6.08	1
Aroclor 1260	ND		ug/kg	38.6	6.70	1
Aroclor 1262	ND		ug/kg	38.6	2.85	1
Aroclor 1268	ND		ug/kg	38.6	5.60	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	62		30-150
Decachlorobiphenyl	69		30-150
2,4,5,6-Tetrachloro-m-xylene	61		30-150
Decachlorobiphenyl	74		30-150

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-07	Date Collected:	08/20/13 13:30
Client ID:	SB-4 (7-9)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	08/21/13 18:40
Analytical Date:	08/22/13 17:49	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	08/22/13
Percent Solids:	70%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	46.5	9.18	1
Aroclor 1221	ND		ug/kg	46.5	14.0	1
Aroclor 1232	ND		ug/kg	46.5	9.88	1
Aroclor 1242	ND		ug/kg	46.5	8.82	1
Aroclor 1248	ND		ug/kg	46.5	5.62	1
Aroclor 1254	ND		ug/kg	46.5	7.33	1
Aroclor 1260	ND		ug/kg	46.5	8.07	1
Aroclor 1262	ND		ug/kg	46.5	3.44	1
Aroclor 1268	ND		ug/kg	46.5	6.74	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	52		30-150
Decachlorobiphenyl	59		30-150
2,4,5,6-Tetrachloro-m-xylene	50		30-150
Decachlorobiphenyl	58		30-150

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-08	Date Collected:	08/20/13 13:35
Client ID:	SB-4 (18-20)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	08/21/13 18:42
Analytical Date:	08/22/13 18:02	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	08/22/13
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.9	7.28	1
Aroclor 1221	ND		ug/kg	36.9	11.1	1
Aroclor 1232	ND		ug/kg	36.9	7.83	1
Aroclor 1242	ND		ug/kg	36.9	7.00	1
Aroclor 1248	ND		ug/kg	36.9	4.46	1
Aroclor 1254	ND		ug/kg	36.9	5.81	1
Aroclor 1260	ND		ug/kg	36.9	6.40	1
Aroclor 1262	ND		ug/kg	36.9	2.73	1
Aroclor 1268	ND		ug/kg	36.9	5.35	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	53		30-150
Decachlorobiphenyl	59		30-150
2,4,5,6-Tetrachloro-m-xylene	52		30-150
Decachlorobiphenyl	80		30-150

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-09	Date Collected:	08/20/13 09:50
Client ID:	TW-1	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	08/21/13 11:31
Analytical Date:	08/22/13 10:27	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	08/21/13
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/l	0.083	0.055	1
Aroclor 1221	ND		ug/l	0.083	0.053	1
Aroclor 1232	ND		ug/l	0.083	0.031	1
Aroclor 1242	ND		ug/l	0.083	0.060	1
Aroclor 1248	ND		ug/l	0.083	0.051	1
Aroclor 1254	ND		ug/l	0.083	0.034	1
Aroclor 1260	ND		ug/l	0.083	0.032	1
Aroclor 1262	ND		ug/l	0.083	0.029	1
Aroclor 1268	ND		ug/l	0.083	0.038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	63		30-150
Decachlorobiphenyl	45		30-150
2,4,5,6-Tetrachloro-m-xylene	63		30-150
Decachlorobiphenyl	46		30-150

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-10	Date Collected:	08/20/13 11:20
Client ID:	TW-2	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	08/21/13 11:31
Analytical Date:	08/22/13 10:40	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	08/21/13
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/l	0.083	0.055	1
Aroclor 1221	ND		ug/l	0.083	0.053	1
Aroclor 1232	ND		ug/l	0.083	0.031	1
Aroclor 1242	ND		ug/l	0.083	0.060	1
Aroclor 1248	ND		ug/l	0.083	0.051	1
Aroclor 1254	ND		ug/l	0.083	0.034	1
Aroclor 1260	ND		ug/l	0.083	0.032	1
Aroclor 1262	ND		ug/l	0.083	0.029	1
Aroclor 1268	ND		ug/l	0.083	0.038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	67		30-150
Decachlorobiphenyl	50		30-150
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	50		30-150

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-11	Date Collected:	08/20/13 13:00
Client ID:	TW-3	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	08/21/13 11:31
Analytical Date:	08/22/13 10:53	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	08/21/13
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/l	0.083	0.055	1
Aroclor 1221	ND		ug/l	0.083	0.053	1
Aroclor 1232	ND		ug/l	0.083	0.031	1
Aroclor 1242	ND		ug/l	0.083	0.060	1
Aroclor 1248	ND		ug/l	0.083	0.051	1
Aroclor 1254	ND		ug/l	0.083	0.034	1
Aroclor 1260	ND		ug/l	0.083	0.032	1
Aroclor 1262	ND		ug/l	0.083	0.029	1
Aroclor 1268	ND		ug/l	0.083	0.038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	66		30-150
Decachlorobiphenyl	43		30-150
2,4,5,6-Tetrachloro-m-xylene	68		30-150
Decachlorobiphenyl	41		30-150

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-12	Date Collected:	08/20/13 14:00
Client ID:	TW-4	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	08/21/13 11:31
Analytical Date:	08/22/13 11:07	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	08/21/13
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/l	0.083	0.055	1
Aroclor 1221	ND		ug/l	0.083	0.053	1
Aroclor 1232	ND		ug/l	0.083	0.031	1
Aroclor 1242	ND		ug/l	0.083	0.060	1
Aroclor 1248	ND		ug/l	0.083	0.051	1
Aroclor 1254	ND		ug/l	0.083	0.034	1
Aroclor 1260	ND		ug/l	0.083	0.032	1
Aroclor 1262	ND		ug/l	0.083	0.029	1
Aroclor 1268	ND		ug/l	0.083	0.038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	66		30-150
Decachlorobiphenyl	45		30-150
2,4,5,6-Tetrachloro-m-xylene	67		30-150
Decachlorobiphenyl	45		30-150

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-13	Date Collected:	08/20/13 10:00
Client ID:	SB-5 (0-2)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	08/21/13 18:42
Analytical Date:	08/22/13 18:14	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	08/22/13
Percent Solids:	63%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	52.3	10.3	1
Aroclor 1221	ND		ug/kg	52.3	15.8	1
Aroclor 1232	ND		ug/kg	52.3	11.1	1
Aroclor 1242	174		ug/kg	52.3	9.93	1
Aroclor 1248	ND		ug/kg	52.3	6.33	1
Aroclor 1254	ND		ug/kg	52.3	8.25	1
Aroclor 1260	ND		ug/kg	52.3	9.08	1
Aroclor 1262	ND		ug/kg	52.3	3.87	1
Aroclor 1268	ND		ug/kg	52.3	7.59	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	52		30-150
Decachlorobiphenyl	59		30-150
2,4,5,6-Tetrachloro-m-xylene	50		30-150
Decachlorobiphenyl	73		30-150

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-14	Date Collected:	08/20/13 10:30
Client ID:	SB-5 (18-20)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	08/21/13 18:42
Analytical Date:	08/22/13 18:26	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	08/22/13
Percent Solids:	89%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/22/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	35.7	7.06	1
Aroclor 1221	ND		ug/kg	35.7	10.8	1
Aroclor 1232	ND		ug/kg	35.7	7.59	1
Aroclor 1242	ND		ug/kg	35.7	6.78	1
Aroclor 1248	ND		ug/kg	35.7	4.32	1
Aroclor 1254	ND		ug/kg	35.7	5.63	1
Aroclor 1260	ND		ug/kg	35.7	6.20	1
Aroclor 1262	ND		ug/kg	35.7	2.64	1
Aroclor 1268	ND		ug/kg	35.7	5.18	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	65		30-150
Decachlorobiphenyl	68		30-150
2,4,5,6-Tetrachloro-m-xylene	67		30-150
Decachlorobiphenyl	86		30-150

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/22/13 11:33
Analyst: JW

Extraction Method: EPA 3510C
Extraction Date: 08/21/13 11:31
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/21/13
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/21/13

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 09-12 Batch: WG630514-1					
Aroclor 1016	ND		ug/l	0.083	0.055
Aroclor 1221	ND		ug/l	0.083	0.053
Aroclor 1232	ND		ug/l	0.083	0.031
Aroclor 1242	ND		ug/l	0.083	0.060
Aroclor 1248	ND		ug/l	0.083	0.051
Aroclor 1254	ND		ug/l	0.083	0.034
Aroclor 1260	ND		ug/l	0.083	0.032
Aroclor 1262	ND		ug/l	0.083	0.029
Aroclor 1268	ND		ug/l	0.083	0.038

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	82		30-150
2,4,5,6-Tetrachloro-m-xylene	72		30-150
Decachlorobiphenyl	79		30-150

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/22/13 15:34
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 08/21/13 18:40
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/22/13
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/22/13

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-08,13-14 Batch: WG630634-1					
Aroclor 1016	ND		ug/kg	32.6	6.44
Aroclor 1221	ND		ug/kg	32.6	9.83
Aroclor 1232	ND		ug/kg	32.6	6.92
Aroclor 1242	ND		ug/kg	32.6	6.18
Aroclor 1248	ND		ug/kg	32.6	3.94
Aroclor 1254	ND		ug/kg	32.6	5.14
Aroclor 1260	ND		ug/kg	32.6	5.66
Aroclor 1262	ND		ug/kg	32.6	2.41
Aroclor 1268	ND		ug/kg	32.6	4.73

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	61		30-150
Decachlorobiphenyl	67		30-150
2,4,5,6-Tetrachloro-m-xylene	62		30-150
Decachlorobiphenyl	79		30-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 09-12 Batch: WG630514-2 WG630514-3								
Aroclor 1016	91		86		40-140	5		50
Aroclor 1260	93		94		40-140	1		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	63		58		30-150
Decachlorobiphenyl	84		84		30-150
2,4,5,6-Tetrachloro-m-xylene	65		60		30-150
Decachlorobiphenyl	81		79		30-150

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-08,13-14 Batch: WG630634-2 WG630634-3								
Aroclor 1016	71		72		40-140	1		50
Aroclor 1260	63		64		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	62		62		30-150
Decachlorobiphenyl	68		68		30-150
2,4,5,6-Tetrachloro-m-xylene	56		57		30-150
Decachlorobiphenyl	70		70		30-150

PESTICIDES

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-01	Date Collected:	08/20/13 09:15
Client ID:	SB-1 (7-9)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	08/22/13 16:33
Analytical Date:	08/23/13 17:26	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/23/13
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.84	0.361	1
Lindane	ND		ug/kg	0.768	0.343	1
Alpha-BHC	ND		ug/kg	0.768	0.218	1
Beta-BHC	ND		ug/kg	1.84	0.698	1
Heptachlor	ND		ug/kg	0.921	0.413	1
Aldrin	ND		ug/kg	1.84	0.649	1
Heptachlor epoxide	ND		ug/kg	3.45	1.04	1
Endrin	ND		ug/kg	0.768	0.315	1
Endrin ketone	ND		ug/kg	1.84	0.474	1
Dieldrin	ND		ug/kg	1.15	0.576	1
4,4'-DDE	ND		ug/kg	1.84	0.426	1
4,4'-DDD	ND		ug/kg	1.84	0.657	1
4,4'-DDT	ND		ug/kg	3.45	1.48	1
Endosulfan I	ND		ug/kg	1.84	0.435	1
Endosulfan II	ND		ug/kg	1.84	0.616	1
Endosulfan sulfate	ND		ug/kg	0.768	0.351	1
Methoxychlor	ND		ug/kg	3.45	1.07	1
Toxaphene	ND		ug/kg	34.5	9.67	1
cis-Chlordane	ND		ug/kg	2.30	0.642	1
trans-Chlordane	ND		ug/kg	2.30	0.608	1
Chlordane	ND		ug/kg	15.0	6.10	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	110		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	101		30-150	B

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-02	Date Collected:	08/20/13 09:20
Client ID:	SB-1 (15-17)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	08/22/13 16:33
Analytical Date:	08/23/13 17:38	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/23/13
Percent Solids:	83%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.84	0.360	1
Lindane	ND		ug/kg	0.765	0.342	1
Alpha-BHC	ND		ug/kg	0.765	0.217	1
Beta-BHC	ND		ug/kg	1.84	0.696	1
Heptachlor	ND		ug/kg	0.918	0.412	1
Aldrin	ND		ug/kg	1.84	0.646	1
Heptachlor epoxide	ND		ug/kg	3.44	1.03	1
Endrin	ND		ug/kg	0.765	0.314	1
Endrin ketone	ND		ug/kg	1.84	0.473	1
Dieldrin	ND		ug/kg	1.15	0.574	1
4,4'-DDE	ND		ug/kg	1.84	0.424	1
4,4'-DDD	ND		ug/kg	1.84	0.655	1
4,4'-DDT	ND		ug/kg	3.44	1.48	1
Endosulfan I	ND		ug/kg	1.84	0.434	1
Endosulfan II	ND		ug/kg	1.84	0.614	1
Endosulfan sulfate	ND		ug/kg	0.765	0.350	1
Methoxychlor	ND		ug/kg	3.44	1.07	1
Toxaphene	ND		ug/kg	34.4	9.64	1
cis-Chlordane	ND		ug/kg	2.30	0.640	1
trans-Chlordane	ND		ug/kg	2.30	0.606	1
Chlordane	ND		ug/kg	14.9	6.08	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	120		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	97		30-150	B

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-03	Date Collected:	08/20/13 10:55
Client ID:	SB-2 (0-2)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	08/22/13 16:33
Analytical Date:	08/23/13 17:51	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/23/13
Percent Solids:	94%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.63	0.320	1
Lindane	ND		ug/kg	0.680	0.304	1
Alpha-BHC	ND		ug/kg	0.680	0.193	1
Beta-BHC	ND		ug/kg	1.63	0.619	1
Heptachlor	ND		ug/kg	0.816	0.366	1
Aldrin	ND		ug/kg	1.63	0.575	1
Heptachlor epoxide	ND		ug/kg	3.06	0.918	1
Endrin	ND		ug/kg	0.680	0.279	1
Endrin ketone	ND		ug/kg	1.63	0.420	1
Dieldrin	ND		ug/kg	1.02	0.510	1
4,4'-DDE	ND		ug/kg	1.63	0.378	1
4,4'-DDD	ND		ug/kg	1.63	0.582	1
4,4'-DDT	ND		ug/kg	3.06	1.31	1
Endosulfan I	ND		ug/kg	1.63	0.386	1
Endosulfan II	ND		ug/kg	1.63	0.546	1
Endosulfan sulfate	ND		ug/kg	0.680	0.311	1
Methoxychlor	ND		ug/kg	3.06	0.952	1
Toxaphene	ND		ug/kg	30.6	8.57	1
cis-Chlordane	ND		ug/kg	2.04	0.569	1
trans-Chlordane	ND		ug/kg	2.04	0.539	1
Chlordane	ND		ug/kg	13.3	5.41	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	48		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-04	Date Collected:	08/20/13 11:00
Client ID:	SB-2 (18-20)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	08/22/13 16:33
Analytical Date:	08/23/13 18:04	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/23/13
Percent Solids:	75%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	2.12	0.416	1
Lindane	ND		ug/kg	0.885	0.396	1
Alpha-BHC	ND		ug/kg	0.885	0.251	1
Beta-BHC	ND		ug/kg	2.12	0.805	1
Heptachlor	ND		ug/kg	1.06	0.476	1
Aldrin	ND		ug/kg	2.12	0.748	1
Heptachlor epoxide	ND		ug/kg	3.98	1.19	1
Endrin	ND		ug/kg	0.885	0.363	1
Endrin ketone	ND		ug/kg	2.12	0.547	1
Dieldrin	ND		ug/kg	1.33	0.664	1
4,4'-DDE	ND		ug/kg	2.12	0.491	1
4,4'-DDD	ND		ug/kg	2.12	0.757	1
4,4'-DDT	ND		ug/kg	3.98	1.71	1
Endosulfan I	ND		ug/kg	2.12	0.502	1
Endosulfan II	ND		ug/kg	2.12	0.710	1
Endosulfan sulfate	ND		ug/kg	0.885	0.404	1
Methoxychlor	ND		ug/kg	3.98	1.24	1
Toxaphene	ND		ug/kg	39.8	11.1	1
cis-Chlordane	ND		ug/kg	2.65	0.740	1
trans-Chlordane	ND		ug/kg	2.65	0.701	1
Chlordane	ND		ug/kg	17.2	7.03	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	137		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	114		30-150	B

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-05 D	Date Collected:	08/20/13 12:00
Client ID:	SB-3 (0-2)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	08/22/13 16:33
Analytical Date:	08/27/13 08:46	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/23/13
Percent Solids:	91%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	34.4	6.74	20
Lindane	ND		ug/kg	14.3	6.41	20
Alpha-BHC	ND		ug/kg	14.3	4.07	20
Beta-BHC	ND		ug/kg	34.4	13.0	20
Heptachlor	ND		ug/kg	17.2	7.72	20
Aldrin	ND		ug/kg	34.4	12.1	20
Heptachlor epoxide	ND		ug/kg	64.6	19.4	20
Endrin	ND		ug/kg	14.3	5.88	20
Endrin ketone	ND		ug/kg	34.4	8.87	20
Dieldrin	ND		ug/kg	21.5	10.8	20
4,4'-DDE	ND		ug/kg	34.4	7.96	20
4,4'-DDD	ND		ug/kg	34.4	12.3	20
4,4'-DDT	84.5	P	ug/kg	64.6	27.7	20
Endosulfan I	ND		ug/kg	34.4	8.13	20
Endosulfan II	ND		ug/kg	34.4	11.5	20
Endosulfan sulfate	ND		ug/kg	14.3	6.56	20
Methoxychlor	ND		ug/kg	64.6	20.1	20
Toxaphene	ND		ug/kg	646	181.	20
cis-Chlordane	ND		ug/kg	43.0	12.0	20
trans-Chlordane	ND		ug/kg	43.0	11.4	20
Chlordane	ND		ug/kg	280	114.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	A
Decachlorobiphenyl	**0**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	B
Decachlorobiphenyl	**0**	Q	30-150	B

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-06	Date Collected:	08/20/13 12:05
Client ID:	SB-3 (18-20)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	08/22/13 16:33
Analytical Date:	08/23/13 18:30	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/23/13
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.83	0.358	1
Lindane	ND		ug/kg	0.763	0.341	1
Alpha-BHC	ND		ug/kg	0.763	0.217	1
Beta-BHC	ND		ug/kg	1.83	0.694	1
Heptachlor	ND		ug/kg	0.915	0.410	1
Aldrin	ND		ug/kg	1.83	0.644	1
Heptachlor epoxide	ND		ug/kg	3.43	1.03	1
Endrin	ND		ug/kg	0.763	0.313	1
Endrin ketone	ND		ug/kg	1.83	0.471	1
Dieldrin	ND		ug/kg	1.14	0.572	1
4,4'-DDE	ND		ug/kg	1.83	0.423	1
4,4'-DDD	ND		ug/kg	1.83	0.653	1
4,4'-DDT	ND		ug/kg	3.43	1.47	1
Endosulfan I	ND		ug/kg	1.83	0.432	1
Endosulfan II	ND		ug/kg	1.83	0.612	1
Endosulfan sulfate	ND		ug/kg	0.763	0.348	1
Methoxychlor	ND		ug/kg	3.43	1.07	1
Toxaphene	ND		ug/kg	34.3	9.61	1
cis-Chlordane	ND		ug/kg	2.29	0.638	1
trans-Chlordane	ND		ug/kg	2.29	0.604	1
Chlordane	ND		ug/kg	14.9	6.06	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	130		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	100		30-150	B

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-07 D	Date Collected:	08/20/13 13:30
Client ID:	SB-4 (7-9)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	08/22/13 16:33
Analytical Date:	08/27/13 08:59	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/23/13
Percent Solids:	70%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	45.1	8.83	20
Lindane	ND		ug/kg	18.8	8.40	20
Alpha-BHC	ND		ug/kg	18.8	5.33	20
Beta-BHC	ND		ug/kg	45.1	17.1	20
Heptachlor	ND		ug/kg	22.5	10.1	20
Aldrin	ND		ug/kg	45.1	15.9	20
Heptachlor epoxide	ND		ug/kg	84.5	25.4	20
Endrin	ND		ug/kg	18.8	7.70	20
Endrin ketone	ND		ug/kg	45.1	11.6	20
Dieldrin	ND		ug/kg	28.2	14.1	20
4,4'-DDD	ND		ug/kg	45.1	16.1	20
4,4'-DDT	64.6	J	ug/kg	84.5	36.2	20
Endosulfan I	ND		ug/kg	45.1	10.6	20
Endosulfan II	ND		ug/kg	45.1	15.1	20
Endosulfan sulfate	ND		ug/kg	18.8	8.58	20
Methoxychlor	ND		ug/kg	84.5	26.3	20
Toxaphene	ND		ug/kg	845	237.	20
cis-Chlordane	ND		ug/kg	56.3	15.7	20
trans-Chlordane	ND		ug/kg	56.3	14.9	20
Chlordane	ND		ug/kg	366	149.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	A
Decachlorobiphenyl	**0**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	B
Decachlorobiphenyl	**0**	Q	30-150	B

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-07 D	Date Collected:	08/20/13 13:30
Client ID:	SB-4 (7-9)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	08/22/13 16:33
Analytical Date:	08/27/13 08:59	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/23/13
Percent Solids:	70%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
4,4'-DDE	11.3	J	ug/kg	45.1	10.4	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	A
Decachlorobiphenyl	**0**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	B
Decachlorobiphenyl	**0**	Q	30-150	B

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-08	Date Collected:	08/20/13 13:35
Client ID:	SB-4 (18-20)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	08/22/13 16:33
Analytical Date:	08/23/13 18:55	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/23/13
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.80	0.352	1
Lindane	ND		ug/kg	0.750	0.335	1
Alpha-BHC	ND		ug/kg	0.750	0.213	1
Beta-BHC	ND		ug/kg	1.80	0.682	1
Heptachlor	ND		ug/kg	0.899	0.403	1
Aldrin	ND		ug/kg	1.80	0.633	1
Heptachlor epoxide	ND		ug/kg	3.37	1.01	1
Endrin	ND		ug/kg	0.750	0.307	1
Endrin ketone	ND		ug/kg	1.80	0.463	1
Dieldrin	ND		ug/kg	1.12	0.562	1
4,4'-DDE	ND		ug/kg	1.80	0.416	1
4,4'-DDD	ND		ug/kg	1.80	0.642	1
4,4'-DDT	ND		ug/kg	3.37	1.45	1
Endosulfan I	ND		ug/kg	1.80	0.425	1
Endosulfan II	ND		ug/kg	1.80	0.601	1
Endosulfan sulfate	ND		ug/kg	0.750	0.342	1
Methoxychlor	ND		ug/kg	3.37	1.05	1
Toxaphene	ND		ug/kg	33.7	9.44	1
cis-Chlordane	ND		ug/kg	2.25	0.627	1
trans-Chlordane	ND		ug/kg	2.25	0.594	1
Chlordane	ND		ug/kg	14.6	5.96	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	116		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-09	Date Collected:	08/20/13 09:50
Client ID:	TW-1	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	08/21/13 11:33
Analytical Date:	08/24/13 20:15	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/24/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/l	0.020	0.005	1
Lindane	ND		ug/l	0.020	0.004	1
Alpha-BHC	ND		ug/l	0.020	0.004	1
Beta-BHC	ND		ug/l	0.020	0.006	1
Heptachlor	ND		ug/l	0.020	0.003	1
Aldrin	ND		ug/l	0.020	0.002	1
Heptachlor epoxide	ND		ug/l	0.020	0.004	1
Endrin	ND		ug/l	0.040	0.004	1
Endrin ketone	ND		ug/l	0.040	0.005	1
Dieldrin	ND		ug/l	0.040	0.004	1
4,4'-DDE	ND		ug/l	0.040	0.004	1
4,4'-DDD	ND		ug/l	0.040	0.005	1
4,4'-DDT	ND		ug/l	0.040	0.004	1
Endosulfan I	ND		ug/l	0.020	0.003	1
Endosulfan II	ND		ug/l	0.040	0.005	1
Endosulfan sulfate	ND		ug/l	0.040	0.005	1
Methoxychlor	ND		ug/l	0.200	0.007	1
Toxaphene	ND		ug/l	0.200	0.063	1
cis-Chlordane	ND		ug/l	0.020	0.007	1
trans-Chlordane	ND		ug/l	0.020	0.006	1
Chlordane	ND		ug/l	0.200	0.046	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-10	Date Collected:	08/20/13 11:20
Client ID:	TW-2	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	08/21/13 11:33
Analytical Date:	08/24/13 20:27	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/24/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/l	0.020	0.005	1
Lindane	ND		ug/l	0.020	0.004	1
Alpha-BHC	ND		ug/l	0.020	0.004	1
Beta-BHC	ND		ug/l	0.020	0.006	1
Heptachlor	ND		ug/l	0.020	0.003	1
Aldrin	ND		ug/l	0.020	0.002	1
Heptachlor epoxide	ND		ug/l	0.020	0.004	1
Endrin	ND		ug/l	0.040	0.004	1
Endrin ketone	ND		ug/l	0.040	0.005	1
Dieldrin	ND		ug/l	0.040	0.004	1
4,4'-DDE	ND		ug/l	0.040	0.004	1
4,4'-DDD	ND		ug/l	0.040	0.005	1
4,4'-DDT	ND		ug/l	0.040	0.004	1
Endosulfan I	ND		ug/l	0.020	0.003	1
Endosulfan II	ND		ug/l	0.040	0.005	1
Endosulfan sulfate	ND		ug/l	0.040	0.005	1
Methoxychlor	ND		ug/l	0.200	0.007	1
Toxaphene	ND		ug/l	0.200	0.063	1
cis-Chlordane	ND		ug/l	0.020	0.007	1
trans-Chlordane	ND		ug/l	0.020	0.006	1
Chlordane	ND		ug/l	0.200	0.046	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-11	Date Collected:	08/20/13 13:00
Client ID:	TW-3	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	08/21/13 11:33
Analytical Date:	08/24/13 20:40	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/24/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/l	0.020	0.005	1
Lindane	ND		ug/l	0.020	0.004	1
Alpha-BHC	ND		ug/l	0.020	0.004	1
Beta-BHC	ND		ug/l	0.020	0.006	1
Heptachlor	ND		ug/l	0.020	0.003	1
Aldrin	ND		ug/l	0.020	0.002	1
Heptachlor epoxide	ND		ug/l	0.020	0.004	1
Endrin	ND		ug/l	0.040	0.004	1
Endrin ketone	ND		ug/l	0.040	0.005	1
Dieldrin	ND		ug/l	0.040	0.004	1
4,4'-DDE	ND		ug/l	0.040	0.004	1
4,4'-DDD	ND		ug/l	0.040	0.005	1
4,4'-DDT	ND		ug/l	0.040	0.004	1
Endosulfan I	ND		ug/l	0.020	0.003	1
Endosulfan II	ND		ug/l	0.040	0.005	1
Endosulfan sulfate	ND		ug/l	0.040	0.005	1
Methoxychlor	ND		ug/l	0.200	0.007	1
Toxaphene	ND		ug/l	0.200	0.063	1
cis-Chlordane	ND		ug/l	0.020	0.007	1
trans-Chlordane	ND		ug/l	0.020	0.006	1
Chlordane	ND		ug/l	0.200	0.046	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-12	Date Collected:	08/20/13 14:00
Client ID:	TW-4	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	08/21/13 11:33
Analytical Date:	08/24/13 20:53	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/24/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/l	0.020	0.005	1
Lindane	ND		ug/l	0.020	0.004	1
Alpha-BHC	ND		ug/l	0.020	0.004	1
Beta-BHC	ND		ug/l	0.020	0.006	1
Heptachlor	ND		ug/l	0.020	0.003	1
Aldrin	ND		ug/l	0.020	0.002	1
Heptachlor epoxide	ND		ug/l	0.020	0.004	1
Endrin	ND		ug/l	0.040	0.004	1
Endrin ketone	ND		ug/l	0.040	0.005	1
Dieldrin	ND		ug/l	0.040	0.004	1
4,4'-DDE	ND		ug/l	0.040	0.004	1
4,4'-DDD	ND		ug/l	0.040	0.005	1
4,4'-DDT	ND		ug/l	0.040	0.004	1
Endosulfan I	ND		ug/l	0.020	0.003	1
Endosulfan II	ND		ug/l	0.040	0.005	1
Endosulfan sulfate	ND		ug/l	0.040	0.005	1
Methoxychlor	ND		ug/l	0.200	0.007	1
Toxaphene	ND		ug/l	0.200	0.063	1
cis-Chlordane	ND		ug/l	0.020	0.007	1
trans-Chlordane	ND		ug/l	0.020	0.006	1
Chlordane	ND		ug/l	0.200	0.046	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-13 D	Date Collected:	08/20/13 10:00
Client ID:	SB-5 (0-2)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	08/22/13 16:33
Analytical Date:	08/23/13 19:08	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/23/13
Percent Solids:	63%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	25.1	4.91	10
Lindane	ND		ug/kg	10.4	4.67	10
Alpha-BHC	ND		ug/kg	10.4	2.97	10
Beta-BHC	ND		ug/kg	25.1	9.51	10
Heptachlor	ND		ug/kg	12.5	5.62	10
Aldrin	ND		ug/kg	25.1	8.83	10
Heptachlor epoxide	ND		ug/kg	47.0	14.1	10
Endrin	ND		ug/kg	10.4	4.28	10
Endrin ketone	ND		ug/kg	25.1	6.46	10
Dieldrin	ND		ug/kg	15.7	7.84	10
4,4'-DDE	ND		ug/kg	25.1	5.80	10
4,4'-DDD	ND		ug/kg	25.1	8.94	10
Endosulfan I	ND		ug/kg	25.1	5.92	10
Endosulfan II	ND		ug/kg	25.1	8.38	10
Endosulfan sulfate	ND		ug/kg	10.4	4.78	10
Methoxychlor	ND		ug/kg	47.0	14.6	10
Toxaphene	ND		ug/kg	470	132.	10
cis-Chlordane	ND		ug/kg	31.3	8.74	10
trans-Chlordane	ND		ug/kg	31.3	8.28	10
Chlordane	ND		ug/kg	204	83.1	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	119		30-150	A
Decachlorobiphenyl	**160**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	112		30-150	B

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-13 D	Date Collected:	08/20/13 10:00
Client ID:	SB-5 (0-2)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	08/22/13 16:33
Analytical Date:	08/23/13 19:08	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/23/13
Percent Solids:	63%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
4,4'-DDT	53.7		ug/kg	47.0	20.2	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	119		30-150	A
Decachlorobiphenyl	**160**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	112		30-150	B

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-14 D	Date Collected:	08/20/13 10:30
Client ID:	SB-5 (18-20)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	08/22/13 16:33
Analytical Date:	08/27/13 09:11	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/23/13
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	35.3	6.91	20
Lindane	ND		ug/kg	14.7	6.57	20
Alpha-BHC	ND		ug/kg	14.7	4.18	20
Beta-BHC	ND		ug/kg	35.3	13.4	20
Heptachlor	ND		ug/kg	17.6	7.91	20
Aldrin	ND		ug/kg	35.3	12.4	20
Heptachlor epoxide	ND		ug/kg	66.2	19.8	20
Endrin	ND		ug/kg	14.7	6.03	20
Endrin ketone	ND		ug/kg	35.3	9.09	20
Dieldrin	ND		ug/kg	22.1	11.0	20
4,4'-DDD	ND		ug/kg	35.3	12.6	20
Endosulfan I	ND		ug/kg	35.3	8.34	20
Endosulfan II	ND		ug/kg	35.3	11.8	20
Endosulfan sulfate	ND		ug/kg	14.7	6.72	20
Methoxychlor	ND		ug/kg	66.2	20.6	20
Toxaphene	ND		ug/kg	662	185.	20
cis-Chlordane	ND		ug/kg	44.1	12.3	20
trans-Chlordane	ND		ug/kg	44.1	11.6	20
Chlordane	ND		ug/kg	287	117.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	A
Decachlorobiphenyl	**0**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	B
Decachlorobiphenyl	**0**	Q	30-150	B

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

SAMPLE RESULTS

Lab ID:	L1316206-14 D	Date Collected:	08/20/13 10:30
Client ID:	SB-5 (18-20)	Date Received:	08/20/13
Sample Location:	475 BAY STREET, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	08/22/13 16:33
Analytical Date:	08/27/13 09:11	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/23/13
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
4,4'-DDE	8.82	J	ug/kg	35.3	8.16	20
4,4'-DDT	45.9	J	ug/kg	66.2	28.4	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	A
Decachlorobiphenyl	**0**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	B
Decachlorobiphenyl	**0**	Q	30-150	B

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/24/13 19:36
Analyst: SH

Extraction Method: EPA 3510C
Extraction Date: 08/21/13 11:33
Cleanup Method1: EPA 3620B
Cleanup Date1: 08/24/13

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 09-12 Batch: WG630520-1					
Delta-BHC	ND		ug/l	0.020	0.005
Lindane	ND		ug/l	0.020	0.004
Alpha-BHC	ND		ug/l	0.020	0.004
Beta-BHC	ND		ug/l	0.020	0.006
Heptachlor	ND		ug/l	0.020	0.003
Aldrin	ND		ug/l	0.020	0.002
Heptachlor epoxide	ND		ug/l	0.020	0.004
Endrin	ND		ug/l	0.040	0.004
Endrin ketone	ND		ug/l	0.040	0.005
Dieldrin	ND		ug/l	0.040	0.004
4,4'-DDE	ND		ug/l	0.040	0.004
4,4'-DDD	ND		ug/l	0.040	0.005
4,4'-DDT	ND		ug/l	0.040	0.004
Endosulfan I	ND		ug/l	0.020	0.003
Endosulfan II	ND		ug/l	0.040	0.005
Endosulfan sulfate	ND		ug/l	0.040	0.005
Methoxychlor	ND		ug/l	0.200	0.007
Toxaphene	ND		ug/l	0.200	0.063
cis-Chlordane	ND		ug/l	0.020	0.007
trans-Chlordane	ND		ug/l	0.020	0.006
Chlordane	ND		ug/l	0.200	0.046

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	48		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/23/13 17:13
Analyst: SH

Extraction Method: EPA 3546
Extraction Date: 08/22/13 16:33
Cleanup Method1: EPA 3620B
Cleanup Date1: 08/23/13

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-08,13-14 Batch: WG630920-1					
Delta-BHC	ND		ug/kg	1.58	0.309
Lindane	ND		ug/kg	0.656	0.293
Alpha-BHC	ND		ug/kg	0.656	0.186
Beta-BHC	ND		ug/kg	1.58	0.598
Heptachlor	ND		ug/kg	0.788	0.353
Aldrin	ND		ug/kg	1.58	0.555
Heptachlor epoxide	ND		ug/kg	2.95	0.886
Endrin	ND		ug/kg	0.656	0.269
Endrin ketone	ND		ug/kg	1.58	0.406
Dieldrin	ND		ug/kg	0.985	0.492
4,4'-DDE	ND		ug/kg	1.58	0.364
4,4'-DDD	ND		ug/kg	1.58	0.562
4,4'-DDT	ND		ug/kg	2.95	1.27
Endosulfan I	ND		ug/kg	1.58	0.372
Endosulfan II	ND		ug/kg	1.58	0.526
Endosulfan sulfate	ND		ug/kg	0.656	0.300
Methoxychlor	ND		ug/kg	2.95	0.919
Toxaphene	ND		ug/kg	29.5	8.27
cis-Chlordane	ND		ug/kg	1.97	0.549
trans-Chlordane	ND		ug/kg	1.97	0.520
Chlordane	ND		ug/kg	12.8	5.22

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	115		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	99		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316206

Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 09-12 Batch: WG630520-2 WG630520-3								
Delta-BHC	81		92		30-150	12		20
Lindane	80		90		30-150	12		20
Alpha-BHC	79		91		30-150	14		20
Beta-BHC	80		94		30-150	16		20
Heptachlor	76		91		30-150	18		20
Aldrin	69		84		30-150	19		20
Heptachlor epoxide	101		112		30-150	10		20
Endrin	99		105		30-150	5		20
Endrin ketone	84		92		30-150	10		20
Dieldrin	89		97		30-150	9		20
4,4'-DDE	80		91		30-150	14		20
4,4'-DDD	82		92		30-150	12		20
4,4'-DDT	96		101		30-150	5		20
Endosulfan I	85		94		30-150	10		20
Endosulfan II	85		90		30-150	6		20
Endosulfan sulfate	84		92		30-150	10		20
Methoxychlor	97		103		30-150	6		20
cis-Chlordane	84		93		30-150	10		20
trans-Chlordane	83		92		30-150	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 09-12 Batch: WG630520-2 WG630520-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		79		30-150	A
Decachlorobiphenyl	88		81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		59		30-150	B
Decachlorobiphenyl	80		73		30-150	B

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-08,13-14 Batch: WG630920-2 WG630920-3								
Delta-BHC	71		84		30-150	17		30
Lindane	76		90		30-150	17		30
Alpha-BHC	79		94		30-150	17		30
Beta-BHC	76		89		30-150	16		30
Heptachlor	96		117		30-150	20		30
Aldrin	88		104		30-150	17		30
Heptachlor epoxide	99		120		30-150	19		30
Endrin	99		120		30-150	19		30
Endrin ketone	78		94		30-150	19		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316206

Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-08,13-14 Batch: WG630920-2 WG630920-3								
Dieldrin	90		109		30-150	19		30
4,4'-DDE	84		102		30-150	19		30
4,4'-DDD	92		111		30-150	19		30
4,4'-DDT	85		104		30-150	20		30
Endosulfan I	89		107		30-150	18		30
Endosulfan II	91		108		30-150	17		30
Endosulfan sulfate	74		88		30-150	17		30
Methoxychlor	88		109		30-150	21		30
cis-Chlordane	87		104		30-150	18		30
trans-Chlordane	86		102		30-150	17		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		79		30-150	A
Decachlorobiphenyl	124		139		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		68		30-150	B
Decachlorobiphenyl	104		117		30-150	B

METALS

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-01
Client ID: SB-1 (7-9)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil
Percent Solids: 87%

Date Collected: 08/20/13 09:15
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5900		mg/kg	8.8	1.8	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG
Antimony, Total	ND		mg/kg	4.4	0.70	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG
Arsenic, Total	5.5		mg/kg	0.88	0.18	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG
Barium, Total	52		mg/kg	0.88	0.26	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG
Beryllium, Total	0.31	J	mg/kg	0.44	0.09	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG
Cadmium, Total	0.47	J	mg/kg	0.88	0.06	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG
Calcium, Total	3800		mg/kg	8.8	2.6	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG
Chromium, Total	29		mg/kg	0.88	0.18	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG
Cobalt, Total	18		mg/kg	1.8	0.44	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG
Copper, Total	27		mg/kg	0.88	0.18	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG
Iron, Total	19000		mg/kg	4.4	1.8	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG
Lead, Total	38		mg/kg	4.4	0.18	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG
Magnesium, Total	15000		mg/kg	8.8	0.88	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG
Manganese, Total	230		mg/kg	0.88	0.18	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/23/13 08:26	08/23/13 12:07	EPA 7471B	1,7471B	MC
Nickel, Total	260		mg/kg	2.2	0.35	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG
Potassium, Total	1100		mg/kg	220	35.	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	1.8	0.26	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.88	0.18	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG
Sodium, Total	460		mg/kg	180	26.	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.35	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG
Vanadium, Total	22		mg/kg	0.88	0.09	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG
Zinc, Total	42		mg/kg	4.4	0.61	2	08/22/13 12:28	08/26/13 13:20	EPA 3050B	1,6010C	MG

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-02
Client ID: SB-1 (15-17)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil
Percent Solids: 83%

Date Collected: 08/20/13 09:20
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	2400		mg/kg	9.3	1.8	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG
Antimony, Total	ND		mg/kg	4.6	0.74	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG
Arsenic, Total	2.6		mg/kg	0.93	0.18	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG
Barium, Total	22		mg/kg	0.93	0.28	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG
Beryllium, Total	0.13	J	mg/kg	0.46	0.09	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG
Cadmium, Total	0.80	J	mg/kg	0.93	0.07	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG
Calcium, Total	1600		mg/kg	9.3	2.8	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG
Chromium, Total	46		mg/kg	0.93	0.18	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG
Cobalt, Total	58		mg/kg	1.8	0.46	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG
Copper, Total	13		mg/kg	0.93	0.18	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG
Iron, Total	32000		mg/kg	4.6	1.8	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG
Lead, Total	8.8		mg/kg	4.6	0.18	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG
Magnesium, Total	76000		mg/kg	9.3	0.93	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG
Manganese, Total	580		mg/kg	0.93	0.18	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG
Mercury, Total	ND		mg/kg	0.09	0.02	1	08/23/13 08:26	08/23/13 12:09	EPA 7471B	1,7471B	MC
Nickel, Total	1200		mg/kg	2.3	0.37	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG
Potassium, Total	590		mg/kg	230	37.	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	1.8	0.28	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.93	0.18	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG
Sodium, Total	90	J	mg/kg	180	28.	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.37	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG
Vanadium, Total	11		mg/kg	0.93	0.09	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG
Zinc, Total	25		mg/kg	4.6	0.65	2	08/22/13 12:28	08/26/13 13:34	EPA 3050B	1,6010C	MG

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-03
Client ID: SB-2 (0-2)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil
Percent Solids: 94%

Date Collected: 08/20/13 10:55
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	3000		mg/kg	8.1	1.6	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG
Antimony, Total	ND		mg/kg	4.0	0.64	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG
Arsenic, Total	2.5		mg/kg	0.81	0.16	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG
Barium, Total	33		mg/kg	0.81	0.24	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG
Beryllium, Total	0.15	J	mg/kg	0.40	0.08	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG
Cadmium, Total	0.31	J	mg/kg	0.81	0.06	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG
Calcium, Total	3200		mg/kg	8.1	2.4	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG
Chromium, Total	14		mg/kg	0.81	0.16	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG
Cobalt, Total	6.0		mg/kg	1.6	0.40	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG
Copper, Total	20		mg/kg	0.81	0.16	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG
Iron, Total	10000		mg/kg	4.0	1.6	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG
Lead, Total	38		mg/kg	4.0	0.16	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG
Magnesium, Total	2700		mg/kg	8.1	0.81	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG
Manganese, Total	140		mg/kg	0.81	0.16	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG
Mercury, Total	0.02	J	mg/kg	0.09	0.02	1	08/23/13 08:26	08/23/13 12:10	EPA 7471B	1,7471B	MC
Nickel, Total	56		mg/kg	2.0	0.32	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG
Potassium, Total	430		mg/kg	200	32.	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	1.6	0.24	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.81	0.16	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG
Sodium, Total	97	J	mg/kg	160	24.	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.6	0.32	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG
Vanadium, Total	19		mg/kg	0.81	0.08	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG
Zinc, Total	44		mg/kg	4.0	0.56	2	08/22/13 12:28	08/26/13 13:38	EPA 3050B	1,6010C	MG

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-04
Client ID: SB-2 (18-20)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil
Percent Solids: 75%

Date Collected: 08/20/13 11:00
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6000		mg/kg	10	2.0	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG
Antimony, Total	ND		mg/kg	5.1	0.82	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG
Arsenic, Total	7.4		mg/kg	1.0	0.20	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG
Barium, Total	48		mg/kg	1.0	0.31	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG
Beryllium, Total	0.37	J	mg/kg	0.51	0.10	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG
Cadmium, Total	1.3		mg/kg	1.0	0.07	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG
Calcium, Total	3500		mg/kg	10	3.1	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG
Chromium, Total	98		mg/kg	1.0	0.20	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG
Cobalt, Total	86		mg/kg	2.0	0.51	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG
Copper, Total	27		mg/kg	1.0	0.20	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG
Iron, Total	49000		mg/kg	5.1	2.0	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG
Lead, Total	12		mg/kg	5.1	0.20	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG
Magnesium, Total	46000		mg/kg	10	1.0	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG
Manganese, Total	890		mg/kg	1.0	0.20	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG
Mercury, Total	ND		mg/kg	0.09	0.02	1	08/23/13 08:26	08/23/13 12:19	EPA 7471B	1,7471B	MC
Nickel, Total	1500		mg/kg	2.6	0.41	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG
Potassium, Total	1100		mg/kg	260	41.	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	2.0	0.31	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	1.0	0.20	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG
Sodium, Total	140	J	mg/kg	200	31.	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	2.0	0.41	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG
Vanadium, Total	25		mg/kg	1.0	0.10	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG
Zinc, Total	98		mg/kg	5.1	0.72	2	08/22/13 12:28	08/26/13 13:41	EPA 3050B	1,6010C	MG

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-05
Client ID: SB-3 (0-2)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil
Percent Solids: 91%

Date Collected: 08/20/13 12:00
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	3900		mg/kg	8.5	1.7	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG
Antimony, Total	ND		mg/kg	4.2	0.68	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG
Arsenic, Total	8.6		mg/kg	0.85	0.17	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG
Barium, Total	54		mg/kg	0.85	0.25	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG
Beryllium, Total	0.19	J	mg/kg	0.42	0.09	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG
Cadmium, Total	0.41	J	mg/kg	0.85	0.06	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG
Calcium, Total	6700		mg/kg	8.5	2.5	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG
Chromium, Total	13		mg/kg	0.85	0.17	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG
Cobalt, Total	8.8		mg/kg	1.7	0.42	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG
Copper, Total	30		mg/kg	0.85	0.17	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG
Iron, Total	16000		mg/kg	4.2	1.7	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG
Lead, Total	86		mg/kg	4.2	0.17	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG
Magnesium, Total	2400		mg/kg	8.5	0.85	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG
Manganese, Total	130		mg/kg	0.85	0.17	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG
Mercury, Total	0.28		mg/kg	0.08	0.02	1	08/23/13 08:26	08/23/13 12:26	EPA 7471B	1,7471B	MC
Nickel, Total	50		mg/kg	2.1	0.34	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG
Potassium, Total	520		mg/kg	210	34.	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG
Selenium, Total	0.48	J	mg/kg	1.7	0.25	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.85	0.17	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG
Sodium, Total	280		mg/kg	170	25.	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.7	0.34	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG
Vanadium, Total	21		mg/kg	0.85	0.09	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG
Zinc, Total	130		mg/kg	4.2	0.59	2	08/22/13 12:28	08/26/13 14:13	EPA 3050B	1,6010C	MG

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-06
Client ID: SB-3 (18-20)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil
Percent Solids: 85%

Date Collected: 08/20/13 12:05
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	4500		mg/kg	8.8	1.8	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG
Antimony, Total	ND		mg/kg	4.4	0.70	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG
Arsenic, Total	2.1		mg/kg	0.88	0.18	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG
Barium, Total	30		mg/kg	0.88	0.26	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG
Beryllium, Total	0.27	J	mg/kg	0.44	0.09	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG
Cadmium, Total	0.34	J	mg/kg	0.88	0.06	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG
Calcium, Total	2500		mg/kg	8.8	2.6	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG
Chromium, Total	25		mg/kg	0.88	0.18	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG
Cobalt, Total	14		mg/kg	1.8	0.44	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG
Copper, Total	27		mg/kg	0.88	0.18	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG
Iron, Total	15000		mg/kg	4.4	1.8	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG
Lead, Total	7.5		mg/kg	4.4	0.18	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG
Magnesium, Total	4500		mg/kg	8.8	0.88	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG
Manganese, Total	270		mg/kg	0.88	0.18	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG
Mercury, Total	ND		mg/kg	0.09	0.02	1	08/23/13 08:26	08/23/13 12:28	EPA 7471B	1,7471B	MC
Nickel, Total	190		mg/kg	2.2	0.35	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG
Potassium, Total	610		mg/kg	220	35.	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	1.8	0.26	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.88	0.18	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG
Sodium, Total	95	J	mg/kg	180	26.	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.35	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG
Vanadium, Total	18		mg/kg	0.88	0.09	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG
Zinc, Total	53		mg/kg	4.4	0.62	2	08/22/13 12:28	08/26/13 14:16	EPA 3050B	1,6010C	MG

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-07
Client ID: SB-4 (7-9)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil
Percent Solids: 70%

Date Collected: 08/20/13 13:30
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	11000		mg/kg	11	2.2	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG
Antimony, Total	ND		mg/kg	5.4	0.87	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG
Arsenic, Total	5.6		mg/kg	1.1	0.22	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG
Barium, Total	120		mg/kg	1.1	0.33	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG
Beryllium, Total	0.55		mg/kg	0.54	0.11	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG
Cadmium, Total	0.61	J	mg/kg	1.1	0.08	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG
Calcium, Total	3400		mg/kg	11	3.3	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG
Chromium, Total	55		mg/kg	1.1	0.22	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG
Cobalt, Total	30		mg/kg	2.2	0.54	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG
Copper, Total	48		mg/kg	1.1	0.22	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG
Iron, Total	24000		mg/kg	5.4	2.2	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG
Lead, Total	160		mg/kg	5.4	0.22	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG
Magnesium, Total	15000		mg/kg	11	1.1	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG
Manganese, Total	290		mg/kg	1.1	0.22	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG
Mercury, Total	0.19		mg/kg	0.10	0.02	1	08/23/13 08:26	08/23/13 12:30	EPA 7471B	1,7471B	MC
Nickel, Total	430		mg/kg	2.7	0.43	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG
Potassium, Total	1200		mg/kg	270	43.	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	2.2	0.33	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	1.1	0.22	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG
Sodium, Total	120	J	mg/kg	220	33.	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	2.2	0.43	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG
Vanadium, Total	29		mg/kg	1.1	0.11	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG
Zinc, Total	100		mg/kg	5.4	0.76	2	08/22/13 12:28	08/26/13 14:20	EPA 3050B	1,6010C	MG

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-08
Client ID: SB-4 (18-20)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil
Percent Solids: 87%

Date Collected: 08/20/13 13:35
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	2500		mg/kg	8.6	1.7	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG
Antimony, Total	ND		mg/kg	4.3	0.69	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG
Arsenic, Total	0.99		mg/kg	0.86	0.17	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG
Barium, Total	26		mg/kg	0.86	0.26	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG
Beryllium, Total	0.16	J	mg/kg	0.43	0.09	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG
Cadmium, Total	0.22	J	mg/kg	0.86	0.06	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG
Calcium, Total	3000		mg/kg	8.6	2.6	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG
Chromium, Total	11		mg/kg	0.86	0.17	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG
Cobalt, Total	5.0		mg/kg	1.7	0.43	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG
Copper, Total	14		mg/kg	0.86	0.17	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG
Iron, Total	8800		mg/kg	4.3	1.7	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG
Lead, Total	4.8		mg/kg	4.3	0.17	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG
Magnesium, Total	2700		mg/kg	8.6	0.86	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG
Manganese, Total	840		mg/kg	0.86	0.17	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG
Mercury, Total	ND		mg/kg	0.09	0.02	1	08/23/13 08:26	08/23/13 12:32	EPA 7471B	1,7471B	MC
Nickel, Total	48		mg/kg	2.2	0.35	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG
Potassium, Total	490		mg/kg	220	35.	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	1.7	0.26	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.86	0.17	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG
Sodium, Total	60	J	mg/kg	170	26.	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.7	0.35	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG
Vanadium, Total	14		mg/kg	0.86	0.09	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG
Zinc, Total	58		mg/kg	4.3	0.60	2	08/22/13 12:28	08/26/13 14:23	EPA 3050B	1,6010C	MG

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-09
Client ID: TW-1
Sample Location: 475 BAY STREET, SI, NY
Matrix: Water
Date Collected: 08/20/13 09:50
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	13.8		mg/l	0.400	0.0800	40	08/21/13 14:16	08/26/13 21:24	EPA 3005A	1,6020A	BM
Antimony, Total	0.00241	J	mg/l	0.00500	0.00050	5	08/21/13 14:16	08/26/13 20:34	EPA 3005A	1,6020A	BM
Arsenic, Total	0.01701		mg/l	0.00250	0.00100	5	08/21/13 14:16	08/26/13 20:34	EPA 3005A	1,6020A	BM
Barium, Total	0.7300		mg/l	0.00250	0.00050	5	08/21/13 14:16	08/26/13 20:34	EPA 3005A	1,6020A	BM
Beryllium, Total	0.00311		mg/l	0.00250	0.00050	5	08/21/13 14:16	08/26/13 20:34	EPA 3005A	1,6020A	BM
Cadmium, Total	0.00102		mg/l	0.00100	0.00025	5	08/21/13 14:16	08/26/13 20:34	EPA 3005A	1,6020A	BM
Calcium, Total	212.		mg/l	2.00	0.640	20	08/21/13 14:16	08/26/13 18:52	EPA 3005A	1,6020A	BM
Chromium, Total	0.1580		mg/l	0.00500	0.00100	5	08/21/13 14:16	08/26/13 20:34	EPA 3005A	1,6020A	BM
Cobalt, Total	0.1138		mg/l	0.00250	0.00050	5	08/21/13 14:16	08/26/13 20:34	EPA 3005A	1,6020A	BM
Copper, Total	0.1256		mg/l	0.00500	0.00050	5	08/21/13 14:16	08/26/13 20:34	EPA 3005A	1,6020A	BM
Iron, Total	67.7		mg/l	0.250	0.0650	5	08/21/13 14:16	08/26/13 20:34	EPA 3005A	1,6020A	BM
Lead, Total	0.8945		mg/l	0.00500	0.00100	5	08/21/13 14:16	08/26/13 20:34	EPA 3005A	1,6020A	BM
Magnesium, Total	94.6		mg/l	0.350	0.115	5	08/21/13 14:16	08/26/13 20:34	EPA 3005A	1,6020A	BM
Manganese, Total	5.924		mg/l	0.01000	0.00200	20	08/21/13 14:16	08/26/13 18:52	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/24/13 06:48	08/24/13 10:06	EPA 7470A	1,7470A	DR
Nickel, Total	1.186		mg/l	0.00250	0.00050	5	08/21/13 14:16	08/26/13 20:34	EPA 3005A	1,6020A	BM
Potassium, Total	16.4		mg/l	0.500	0.135	5	08/21/13 14:16	08/26/13 20:34	EPA 3005A	1,6020A	BM
Selenium, Total	0.00522	J	mg/l	0.0250	0.00150	5	08/21/13 14:16	08/26/13 20:34	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00200	0.00050	5	08/21/13 14:16	08/26/13 20:34	EPA 3005A	1,6020A	BM
Sodium, Total	119.		mg/l	0.500	0.0750	5	08/21/13 14:16	08/26/13 20:34	EPA 3005A	1,6020A	BM
Thallium, Total	0.00027	J	mg/l	0.00250	0.00015	5	08/21/13 14:16	08/26/13 20:34	EPA 3005A	1,6020A	BM
Vanadium, Total	0.09825		mg/l	0.02500	0.00050	5	08/21/13 14:16	08/26/13 20:34	EPA 3005A	1,6020A	BM
Zinc, Total	0.3036		mg/l	0.05000	0.00600	5	08/21/13 14:16	08/26/13 20:34	EPA 3005A	1,6020A	BM
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.0154		mg/l	0.0100	0.00200	1	08/21/13 01:40	08/27/13 01:27	NA	1,6020A	BM
Antimony, Dissolved	0.00068	J	mg/l	0.00100	0.00010	1	08/21/13 01:40	08/27/13 01:27	NA	1,6020A	BM
Arsenic, Dissolved	0.00466		mg/l	0.00050	0.00020	1	08/21/13 01:40	08/27/13 01:27	NA	1,6020A	BM
Barium, Dissolved	0.2612		mg/l	0.00050	0.00010	1	08/21/13 01:40	08/27/13 01:27	NA	1,6020A	BM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	08/21/13 01:40	08/27/13 01:27	NA	1,6020A	BM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	08/21/13 01:40	08/27/13 01:27	NA	1,6020A	BM

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-09
Client ID: TW-1
Sample Location: 475 BAY STREET, SI, NY
Matrix: Water

Date Collected: 08/20/13 09:50
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	184.		mg/l	1.00	0.320	10	08/21/13 01:40	08/27/13 00:25	NA	1,6020A	BM
Chromium, Dissolved	0.00313		mg/l	0.00100	0.00020	1	08/21/13 01:40	08/27/13 01:27	NA	1,6020A	BM
Cobalt, Dissolved	0.00923		mg/l	0.00050	0.00010	1	08/21/13 01:40	08/27/13 01:27	NA	1,6020A	BM
Copper, Dissolved	0.00083	J	mg/l	0.00100	0.00010	1	08/21/13 01:40	08/27/13 01:27	NA	1,6020A	BM
Iron, Dissolved	5.83		mg/l	0.0500	0.0130	1	08/21/13 01:40	08/27/13 01:27	NA	1,6020A	BM
Lead, Dissolved	0.00046	J	mg/l	0.00100	0.00020	1	08/21/13 01:40	08/27/13 01:27	NA	1,6020A	BM
Magnesium, Dissolved	70.6		mg/l	0.700	0.230	10	08/21/13 01:40	08/27/13 00:25	NA	1,6020A	BM
Manganese, Dissolved	3.214		mg/l	0.00500	0.00100	10	08/21/13 01:40	08/27/13 00:25	NA	1,6020A	BM
Mercury, Dissolved	ND		mg/l	0.00033	0.00011	1	08/23/13 08:00	08/23/13 12:56	EPA 7470A	1,7470A	DR
Nickel, Dissolved	0.04667		mg/l	0.00050	0.00010	1	08/21/13 01:40	08/27/13 01:27	NA	1,6020A	BM
Potassium, Dissolved	13.8		mg/l	0.100	0.0270	1	08/21/13 01:40	08/27/13 01:27	NA	1,6020A	BM
Selenium, Dissolved	0.00239	J	mg/l	0.00500	0.00030	1	08/21/13 01:40	08/27/13 01:27	NA	1,6020A	BM
Silver, Dissolved	0.00010	J	mg/l	0.00040	0.00010	1	08/21/13 01:40	08/27/13 01:27	NA	1,6020A	BM
Sodium, Dissolved	126.		mg/l	1.00	0.150	10	08/21/13 01:40	08/27/13 00:25	NA	1,6020A	BM
Thallium, Dissolved	ND		mg/l	0.00050	0.00003	1	08/21/13 01:40	08/27/13 01:27	NA	1,6020A	BM
Vanadium, Dissolved	0.00113	J	mg/l	0.00500	0.00010	1	08/21/13 01:40	08/27/13 01:27	NA	1,6020A	BM
Zinc, Dissolved	0.01569		mg/l	0.01000	0.00120	1	08/21/13 01:40	08/27/13 01:27	NA	1,6020A	BM

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-10
Client ID: TW-2
Sample Location: 475 BAY STREET, SI, NY
Matrix: Water
Date Collected: 08/20/13 11:20
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	27.1		mg/l	2.00	0.400	200	08/21/13 14:16	08/26/13 21:49	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00500	0.00050	5	08/21/13 14:16	08/26/13 21:05	EPA 3005A	1,6020A	BM
Arsenic, Total	0.01472		mg/l	0.00250	0.00100	5	08/21/13 14:16	08/26/13 21:05	EPA 3005A	1,6020A	BM
Barium, Total	0.4118		mg/l	0.00250	0.00050	5	08/21/13 14:16	08/26/13 21:05	EPA 3005A	1,6020A	BM
Beryllium, Total	0.00266		mg/l	0.00250	0.00050	5	08/21/13 14:16	08/26/13 21:05	EPA 3005A	1,6020A	BM
Cadmium, Total	0.00055	J	mg/l	0.00100	0.00025	5	08/21/13 14:16	08/26/13 21:05	EPA 3005A	1,6020A	BM
Calcium, Total	127.		mg/l	0.500	0.160	5	08/21/13 14:16	08/26/13 21:05	EPA 3005A	1,6020A	BM
Chromium, Total	0.1606		mg/l	0.00500	0.00100	5	08/21/13 14:16	08/26/13 21:05	EPA 3005A	1,6020A	BM
Cobalt, Total	0.09900		mg/l	0.00250	0.00050	5	08/21/13 14:16	08/26/13 21:05	EPA 3005A	1,6020A	BM
Copper, Total	0.09750		mg/l	0.00500	0.00050	5	08/21/13 14:16	08/26/13 21:05	EPA 3005A	1,6020A	BM
Iron, Total	78.1		mg/l	0.250	0.0650	5	08/21/13 14:16	08/26/13 21:05	EPA 3005A	1,6020A	BM
Lead, Total	0.1849		mg/l	0.00500	0.00100	5	08/21/13 14:16	08/26/13 21:05	EPA 3005A	1,6020A	BM
Magnesium, Total	51.1		mg/l	0.350	0.115	5	08/21/13 14:16	08/26/13 21:05	EPA 3005A	1,6020A	BM
Manganese, Total	4.746		mg/l	0.01000	0.00200	20	08/21/13 14:16	08/26/13 19:16	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/24/13 06:48	08/24/13 10:07	EPA 7470A	1,7470A	DR
Nickel, Total	1.157		mg/l	0.00250	0.00050	5	08/21/13 14:16	08/26/13 21:05	EPA 3005A	1,6020A	BM
Potassium, Total	12.6		mg/l	0.500	0.135	5	08/21/13 14:16	08/26/13 21:05	EPA 3005A	1,6020A	BM
Selenium, Total	0.00328	J	mg/l	0.0250	0.00150	5	08/21/13 14:16	08/26/13 21:05	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00200	0.00050	5	08/21/13 14:16	08/26/13 21:05	EPA 3005A	1,6020A	BM
Sodium, Total	25.7		mg/l	0.500	0.0750	5	08/21/13 14:16	08/26/13 21:05	EPA 3005A	1,6020A	BM
Thallium, Total	0.00046	J	mg/l	0.00250	0.00015	5	08/21/13 14:16	08/26/13 21:05	EPA 3005A	1,6020A	BM
Vanadium, Total	0.08260		mg/l	0.02500	0.00050	5	08/21/13 14:16	08/26/13 21:05	EPA 3005A	1,6020A	BM
Zinc, Total	0.1496		mg/l	0.05000	0.00600	5	08/21/13 14:16	08/26/13 21:05	EPA 3005A	1,6020A	BM
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.0443		mg/l	0.0100	0.00200	1	08/21/13 01:40	08/27/13 01:39	NA	1,6020A	BM
Antimony, Dissolved	0.00034	J	mg/l	0.00100	0.00010	1	08/21/13 01:40	08/27/13 01:39	NA	1,6020A	BM
Arsenic, Dissolved	0.00560		mg/l	0.00050	0.00020	1	08/21/13 01:40	08/27/13 01:39	NA	1,6020A	BM
Barium, Dissolved	0.1405		mg/l	0.00050	0.00010	1	08/21/13 01:40	08/27/13 01:39	NA	1,6020A	BM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	08/21/13 01:40	08/27/13 01:39	NA	1,6020A	BM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	08/21/13 01:40	08/27/13 01:39	NA	1,6020A	BM

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-10
Client ID: TW-2
Sample Location: 475 BAY STREET, SI, NY
Matrix: Water

Date Collected: 08/20/13 11:20
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	110.		mg/l	1.00	0.320	10	08/21/13 01:40	08/27/13 01:08	NA	1,6020A	BM
Chromium, Dissolved	0.00209		mg/l	0.00100	0.00020	1	08/21/13 01:40	08/27/13 01:39	NA	1,6020A	BM
Cobalt, Dissolved	0.00403		mg/l	0.00050	0.00010	1	08/21/13 01:40	08/27/13 01:39	NA	1,6020A	BM
Copper, Dissolved	0.00069	J	mg/l	0.00100	0.00010	1	08/21/13 01:40	08/27/13 01:39	NA	1,6020A	BM
Iron, Dissolved	2.66		mg/l	0.0500	0.0130	1	08/21/13 01:40	08/27/13 01:39	NA	1,6020A	BM
Lead, Dissolved	0.00063	J	mg/l	0.00100	0.00020	1	08/21/13 01:40	08/27/13 01:39	NA	1,6020A	BM
Magnesium, Dissolved	24.3		mg/l	0.0700	0.0230	1	08/21/13 01:40	08/27/13 01:39	NA	1,6020A	BM
Manganese, Dissolved	2.639		mg/l	0.00500	0.00100	10	08/21/13 01:40	08/27/13 01:08	NA	1,6020A	BM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	08/23/13 08:00	08/23/13 13:01	EPA 7470A	1,7470A	DR
Nickel, Dissolved	0.02510		mg/l	0.00050	0.00010	1	08/21/13 01:40	08/27/13 01:39	NA	1,6020A	BM
Potassium, Dissolved	9.34		mg/l	0.100	0.0270	1	08/21/13 01:40	08/27/13 01:39	NA	1,6020A	BM
Selenium, Dissolved	0.00079	J	mg/l	0.00500	0.00030	1	08/21/13 01:40	08/27/13 01:39	NA	1,6020A	BM
Silver, Dissolved	ND		mg/l	0.00040	0.00010	1	08/21/13 01:40	08/27/13 01:39	NA	1,6020A	BM
Sodium, Dissolved	25.7		mg/l	0.100	0.0150	1	08/21/13 01:40	08/27/13 01:39	NA	1,6020A	BM
Thallium, Dissolved	ND		mg/l	0.00050	0.00003	1	08/21/13 01:40	08/27/13 01:39	NA	1,6020A	BM
Vanadium, Dissolved	0.00070	J	mg/l	0.00500	0.00010	1	08/21/13 01:40	08/27/13 01:39	NA	1,6020A	BM
Zinc, Dissolved	0.00377	J	mg/l	0.01000	0.00120	1	08/21/13 01:40	08/27/13 01:39	NA	1,6020A	BM

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-11
Client ID: TW-3
Sample Location: 475 BAY STREET, SI, NY
Matrix: Water
Date Collected: 08/20/13 13:00
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	40.2		mg/l	2.00	0.400	200	08/21/13 14:16	08/26/13 21:55	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00500	0.00050	5	08/21/13 14:16	08/26/13 21:11	EPA 3005A	1,6020A	BM
Arsenic, Total	0.01703		mg/l	0.00250	0.00100	5	08/21/13 14:16	08/26/13 21:11	EPA 3005A	1,6020A	BM
Barium, Total	1.462		mg/l	0.00250	0.00050	5	08/21/13 14:16	08/26/13 21:11	EPA 3005A	1,6020A	BM
Beryllium, Total	0.00705		mg/l	0.00250	0.00050	5	08/21/13 14:16	08/26/13 21:11	EPA 3005A	1,6020A	BM
Cadmium, Total	0.00107		mg/l	0.00100	0.00025	5	08/21/13 14:16	08/26/13 21:11	EPA 3005A	1,6020A	BM
Calcium, Total	131.		mg/l	0.500	0.160	5	08/21/13 14:16	08/26/13 21:11	EPA 3005A	1,6020A	BM
Chromium, Total	0.1294		mg/l	0.00500	0.00100	5	08/21/13 14:16	08/26/13 21:11	EPA 3005A	1,6020A	BM
Cobalt, Total	0.1197		mg/l	0.00250	0.00050	5	08/21/13 14:16	08/26/13 21:11	EPA 3005A	1,6020A	BM
Copper, Total	0.2235		mg/l	0.00500	0.00050	5	08/21/13 14:16	08/26/13 21:11	EPA 3005A	1,6020A	BM
Iron, Total	139.		mg/l	0.250	0.0650	5	08/21/13 14:16	08/26/13 21:11	EPA 3005A	1,6020A	BM
Lead, Total	0.1161		mg/l	0.00500	0.00100	5	08/21/13 14:16	08/26/13 21:11	EPA 3005A	1,6020A	BM
Magnesium, Total	117.		mg/l	0.350	0.115	5	08/21/13 14:16	08/26/13 21:11	EPA 3005A	1,6020A	BM
Manganese, Total	12.48		mg/l	0.1000	0.02000	200	08/21/13 14:16	08/26/13 21:55	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/24/13 06:48	08/24/13 10:09	EPA 7470A	1,7470A	DR
Nickel, Total	1.174		mg/l	0.00250	0.00050	5	08/21/13 14:16	08/26/13 21:11	EPA 3005A	1,6020A	BM
Potassium, Total	17.2		mg/l	0.500	0.135	5	08/21/13 14:16	08/26/13 21:11	EPA 3005A	1,6020A	BM
Selenium, Total	0.00607	J	mg/l	0.0250	0.00150	5	08/21/13 14:16	08/26/13 21:11	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00200	0.00050	5	08/21/13 14:16	08/26/13 21:11	EPA 3005A	1,6020A	BM
Sodium, Total	40.3		mg/l	0.500	0.0750	5	08/21/13 14:16	08/26/13 21:11	EPA 3005A	1,6020A	BM
Thallium, Total	0.00043	J	mg/l	0.00250	0.00015	5	08/21/13 14:16	08/26/13 21:11	EPA 3005A	1,6020A	BM
Vanadium, Total	0.1632		mg/l	0.02500	0.00050	5	08/21/13 14:16	08/26/13 21:11	EPA 3005A	1,6020A	BM
Zinc, Total	0.3040		mg/l	0.05000	0.00600	5	08/21/13 14:16	08/26/13 21:11	EPA 3005A	1,6020A	BM
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.00952	J	mg/l	0.0100	0.00200	1	08/21/13 01:40	08/27/13 01:46	NA	1,6020A	BM
Antimony, Dissolved	0.00033	J	mg/l	0.00100	0.00010	1	08/21/13 01:40	08/27/13 01:46	NA	1,6020A	BM
Arsenic, Dissolved	0.00822		mg/l	0.00050	0.00020	1	08/21/13 01:40	08/27/13 01:46	NA	1,6020A	BM
Barium, Dissolved	0.2153		mg/l	0.00050	0.00010	1	08/21/13 01:40	08/27/13 01:46	NA	1,6020A	BM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	08/21/13 01:40	08/27/13 01:46	NA	1,6020A	BM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	08/21/13 01:40	08/27/13 01:46	NA	1,6020A	BM

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-11
Client ID: TW-3
Sample Location: 475 BAY STREET, SI, NY
Matrix: Water

Date Collected: 08/20/13 13:00
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	105.		mg/l	2.00	0.640	20	08/21/13 01:40	08/27/13 01:14	NA	1,6020A	BM
Chromium, Dissolved	0.00376		mg/l	0.00100	0.00020	1	08/21/13 01:40	08/27/13 01:46	NA	1,6020A	BM
Cobalt, Dissolved	0.00179		mg/l	0.00050	0.00010	1	08/21/13 01:40	08/27/13 01:46	NA	1,6020A	BM
Copper, Dissolved	0.00080	J	mg/l	0.00100	0.00010	1	08/21/13 01:40	08/27/13 01:46	NA	1,6020A	BM
Iron, Dissolved	13.0		mg/l	0.0500	0.0130	1	08/21/13 01:40	08/27/13 01:46	NA	1,6020A	BM
Lead, Dissolved	ND		mg/l	0.00100	0.00020	1	08/21/13 01:40	08/27/13 01:46	NA	1,6020A	BM
Magnesium, Dissolved	93.5		mg/l	1.40	0.460	20	08/21/13 01:40	08/27/13 01:14	NA	1,6020A	BM
Manganese, Dissolved	4.400		mg/l	0.01000	0.00200	20	08/21/13 01:40	08/27/13 01:14	NA	1,6020A	BM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	08/23/13 08:00	08/23/13 13:03	EPA 7470A	1,7470A	DR
Nickel, Dissolved	0.00815		mg/l	0.00050	0.00010	1	08/21/13 01:40	08/27/13 01:46	NA	1,6020A	BM
Potassium, Dissolved	10.3		mg/l	0.100	0.0270	1	08/21/13 01:40	08/27/13 01:46	NA	1,6020A	BM
Selenium, Dissolved	0.00100	J	mg/l	0.00500	0.00030	1	08/21/13 01:40	08/27/13 01:46	NA	1,6020A	BM
Silver, Dissolved	ND		mg/l	0.00040	0.00010	1	08/21/13 01:40	08/27/13 01:46	NA	1,6020A	BM
Sodium, Dissolved	41.2		mg/l	2.00	0.300	20	08/21/13 01:40	08/27/13 01:14	NA	1,6020A	BM
Thallium, Dissolved	ND		mg/l	0.00050	0.00003	1	08/21/13 01:40	08/27/13 01:46	NA	1,6020A	BM
Vanadium, Dissolved	0.00122	J	mg/l	0.00500	0.00010	1	08/21/13 01:40	08/27/13 01:46	NA	1,6020A	BM
Zinc, Dissolved	0.00462	J	mg/l	0.01000	0.00120	1	08/21/13 01:40	08/27/13 01:46	NA	1,6020A	BM

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-12
Client ID: TW-4
Sample Location: 475 BAY STREET, SI, NY
Matrix: Water
Date Collected: 08/20/13 14:00
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	59.7		mg/l	2.00	0.400	200	08/21/13 14:16	08/26/13 22:01	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00500	0.00050	5	08/21/13 14:16	08/26/13 21:18	EPA 3005A	1,6020A	BM
Arsenic, Total	0.02197		mg/l	0.00250	0.00100	5	08/21/13 14:16	08/26/13 21:18	EPA 3005A	1,6020A	BM
Barium, Total	1.994		mg/l	0.00250	0.00050	5	08/21/13 14:16	08/26/13 21:18	EPA 3005A	1,6020A	BM
Beryllium, Total	0.00804		mg/l	0.00250	0.00050	5	08/21/13 14:16	08/26/13 21:18	EPA 3005A	1,6020A	BM
Cadmium, Total	0.00212		mg/l	0.00100	0.00025	5	08/21/13 14:16	08/26/13 21:18	EPA 3005A	1,6020A	BM
Calcium, Total	194.		mg/l	0.500	0.160	5	08/21/13 14:16	08/26/13 21:18	EPA 3005A	1,6020A	BM
Chromium, Total	0.2020		mg/l	0.00500	0.00100	5	08/21/13 14:16	08/26/13 21:18	EPA 3005A	1,6020A	BM
Cobalt, Total	0.2148		mg/l	0.00250	0.00050	5	08/21/13 14:16	08/26/13 21:18	EPA 3005A	1,6020A	BM
Copper, Total	0.4695		mg/l	0.00500	0.00050	5	08/21/13 14:16	08/26/13 21:18	EPA 3005A	1,6020A	BM
Iron, Total	235.		mg/l	1.00	0.260	20	08/21/13 14:16	08/26/13 19:29	EPA 3005A	1,6020A	BM
Lead, Total	0.3228		mg/l	0.00500	0.00100	5	08/21/13 14:16	08/26/13 21:18	EPA 3005A	1,6020A	BM
Magnesium, Total	166.		mg/l	0.350	0.115	5	08/21/13 14:16	08/26/13 21:18	EPA 3005A	1,6020A	BM
Manganese, Total	18.89		mg/l	0.1000	0.02000	200	08/21/13 14:16	08/26/13 22:01	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/24/13 06:48	08/24/13 10:11	EPA 7470A	1,7470A	DR
Nickel, Total	3.342		mg/l	0.01000	0.00200	20	08/21/13 14:16	08/26/13 19:29	EPA 3005A	1,6020A	BM
Potassium, Total	24.0		mg/l	0.500	0.135	5	08/21/13 14:16	08/26/13 21:18	EPA 3005A	1,6020A	BM
Selenium, Total	0.0101	J	mg/l	0.0250	0.00150	5	08/21/13 14:16	08/26/13 21:18	EPA 3005A	1,6020A	BM
Silver, Total	0.00056	J	mg/l	0.00200	0.00050	5	08/21/13 14:16	08/26/13 21:18	EPA 3005A	1,6020A	BM
Sodium, Total	73.4		mg/l	0.500	0.0750	5	08/21/13 14:16	08/26/13 21:18	EPA 3005A	1,6020A	BM
Thallium, Total	0.00085	J	mg/l	0.00250	0.00015	5	08/21/13 14:16	08/26/13 21:18	EPA 3005A	1,6020A	BM
Vanadium, Total	0.1792		mg/l	0.02500	0.00050	5	08/21/13 14:16	08/26/13 21:18	EPA 3005A	1,6020A	BM
Zinc, Total	0.6670		mg/l	0.05000	0.00600	5	08/21/13 14:16	08/26/13 21:18	EPA 3005A	1,6020A	BM
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.0251		mg/l	0.0100	0.00200	1	08/21/13 01:40	08/27/13 02:17	NA	1,6020A	BM
Antimony, Dissolved	0.00097	J	mg/l	0.00100	0.00010	1	08/21/13 01:40	08/27/13 02:17	NA	1,6020A	BM
Arsenic, Dissolved	0.00571		mg/l	0.00050	0.00020	1	08/21/13 01:40	08/27/13 02:17	NA	1,6020A	BM
Barium, Dissolved	0.3937		mg/l	0.00050	0.00010	1	08/21/13 01:40	08/27/13 02:17	NA	1,6020A	BM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	08/21/13 01:40	08/27/13 02:17	NA	1,6020A	BM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	08/21/13 01:40	08/27/13 02:17	NA	1,6020A	BM

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-12
Client ID: TW-4
Sample Location: 475 BAY STREET, SI, NY
Matrix: Water

Date Collected: 08/20/13 14:00
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	152.		mg/l	1.00	0.320	10	08/21/13 01:40	08/27/13 01:21	NA	1,6020A	BM
Chromium, Dissolved	0.00351		mg/l	0.00100	0.00020	1	08/21/13 01:40	08/27/13 02:17	NA	1,6020A	BM
Cobalt, Dissolved	0.00121		mg/l	0.00050	0.00010	1	08/21/13 01:40	08/27/13 02:17	NA	1,6020A	BM
Copper, Dissolved	0.00098	J	mg/l	0.00100	0.00010	1	08/21/13 01:40	08/27/13 02:17	NA	1,6020A	BM
Iron, Dissolved	19.7		mg/l	0.0500	0.0130	1	08/21/13 01:40	08/27/13 02:17	NA	1,6020A	BM
Lead, Dissolved	0.00075	J	mg/l	0.00100	0.00020	1	08/21/13 01:40	08/27/13 02:17	NA	1,6020A	BM
Magnesium, Dissolved	90.8		mg/l	0.700	0.230	10	08/21/13 01:40	08/27/13 01:21	NA	1,6020A	BM
Manganese, Dissolved	3.077		mg/l	0.00500	0.00100	10	08/21/13 01:40	08/27/13 01:21	NA	1,6020A	BM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	08/23/13 08:00	08/23/13 13:09	EPA 7470A	1,7470A	DR
Nickel, Dissolved	0.01045		mg/l	0.00050	0.00010	1	08/21/13 01:40	08/27/13 02:17	NA	1,6020A	BM
Potassium, Dissolved	13.4		mg/l	0.100	0.0270	1	08/21/13 01:40	08/27/13 02:17	NA	1,6020A	BM
Selenium, Dissolved	0.00205	J	mg/l	0.00500	0.00030	1	08/21/13 01:40	08/27/13 02:17	NA	1,6020A	BM
Silver, Dissolved	ND		mg/l	0.00040	0.00010	1	08/21/13 01:40	08/27/13 02:17	NA	1,6020A	BM
Sodium, Dissolved	76.6		mg/l	1.00	0.150	10	08/21/13 01:40	08/27/13 01:21	NA	1,6020A	BM
Thallium, Dissolved	ND		mg/l	0.00050	0.00003	1	08/21/13 01:40	08/27/13 02:17	NA	1,6020A	BM
Vanadium, Dissolved	0.00106	J	mg/l	0.00500	0.00010	1	08/21/13 01:40	08/27/13 02:17	NA	1,6020A	BM
Zinc, Dissolved	0.00775	J	mg/l	0.01000	0.00120	1	08/21/13 01:40	08/27/13 02:17	NA	1,6020A	BM

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-13
Client ID: SB-5 (0-2)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil
Percent Solids: 63%

Date Collected: 08/20/13 10:00
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	7500		mg/kg	13	2.5	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG
Antimony, Total	4.6	J	mg/kg	6.3	1.0	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG
Arsenic, Total	15		mg/kg	1.3	0.25	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG
Barium, Total	950		mg/kg	1.3	0.38	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG
Beryllium, Total	0.39	J	mg/kg	0.63	0.13	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG
Cadmium, Total	11		mg/kg	1.3	0.09	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG
Calcium, Total	21000		mg/kg	13	3.8	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG
Chromium, Total	44		mg/kg	1.3	0.25	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG
Cobalt, Total	12		mg/kg	2.5	0.63	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG
Copper, Total	160		mg/kg	1.3	0.25	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG
Iron, Total	18000		mg/kg	6.3	2.5	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG
Lead, Total	5800		mg/kg	6.3	0.25	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG
Magnesium, Total	13000		mg/kg	13	1.3	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG
Manganese, Total	330		mg/kg	1.3	0.25	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG
Mercury, Total	0.45		mg/kg	0.11	0.02	1	08/23/13 08:26	08/23/13 12:33	EPA 7471B	1,7471B	MC
Nickel, Total	140		mg/kg	3.2	0.50	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG
Potassium, Total	500		mg/kg	320	50.	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG
Selenium, Total	0.59	J	mg/kg	2.5	0.38	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG
Silver, Total	0.58	J	mg/kg	1.3	0.25	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG
Sodium, Total	180	J	mg/kg	250	38.	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	2.5	0.50	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG
Vanadium, Total	32		mg/kg	1.3	0.13	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG
Zinc, Total	2600		mg/kg	6.3	0.88	2	08/22/13 12:28	08/26/13 14:27	EPA 3050B	1,6010C	MG

Project Name: 475 BAY STREET
Lab Number: L1316206
Project Number: Not Specified
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-14
Client ID: SB-5 (18-20)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil
Percent Solids: 89%

Date Collected: 08/20/13 10:30
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	2400		mg/kg	8.8	1.8	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG
Antimony, Total	ND		mg/kg	4.4	0.71	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG
Arsenic, Total	2.5		mg/kg	0.88	0.18	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG
Barium, Total	21		mg/kg	0.88	0.26	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG
Beryllium, Total	0.14	J	mg/kg	0.44	0.09	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG
Cadmium, Total	0.60	J	mg/kg	0.88	0.06	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG
Calcium, Total	2700		mg/kg	8.8	2.6	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG
Chromium, Total	72		mg/kg	0.88	0.18	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG
Cobalt, Total	34		mg/kg	1.8	0.44	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG
Copper, Total	10		mg/kg	0.88	0.18	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG
Iron, Total	23000		mg/kg	4.4	1.8	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG
Lead, Total	51		mg/kg	4.4	0.18	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG
Magnesium, Total	49000		mg/kg	8.8	0.88	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG
Manganese, Total	430		mg/kg	0.88	0.18	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/23/13 08:26	08/23/13 12:35	EPA 7471B	1,7471B	MC
Nickel, Total	660		mg/kg	2.2	0.35	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG
Potassium, Total	440		mg/kg	220	35.	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	1.8	0.26	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.88	0.18	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG
Sodium, Total	79	J	mg/kg	180	26.	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.35	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG
Vanadium, Total	11		mg/kg	0.88	0.09	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG
Zinc, Total	72		mg/kg	4.4	0.62	2	08/22/13 12:28	08/26/13 14:30	EPA 3050B	1,6010C	MG

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

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): 09-12 Batch: WG630572-1										
Aluminum, Total	ND		mg/l	0.0100	0.00200	1	08/21/13 14:16	08/26/13 19:10	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	08/21/13 14:16	08/26/13 19:10	1,6020A	BM
Arsenic, Total	ND		mg/l	0.00050	0.00020	1	08/21/13 14:16	08/26/13 19:10	1,6020A	BM
Barium, Total	ND		mg/l	0.00050	0.00010	1	08/21/13 14:16	08/26/13 19:10	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/21/13 14:16	08/26/13 19:10	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/21/13 14:16	08/26/13 19:10	1,6020A	BM
Calcium, Total	ND		mg/l	0.100	0.0320	1	08/21/13 14:16	08/26/13 19:10	1,6020A	BM
Chromium, Total	ND		mg/l	0.00100	0.00020	1	08/21/13 14:16	08/26/13 19:10	1,6020A	BM
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	08/21/13 14:16	08/26/13 19:10	1,6020A	BM
Copper, Total	ND		mg/l	0.00100	0.00010	1	08/21/13 14:16	08/26/13 19:10	1,6020A	BM
Iron, Total	ND		mg/l	0.0500	0.0130	1	08/21/13 14:16	08/26/13 19:10	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	08/21/13 14:16	08/26/13 19:10	1,6020A	BM
Magnesium, Total	ND		mg/l	0.0700	0.0230	1	08/21/13 14:16	08/26/13 19:10	1,6020A	BM
Manganese, Total	ND		mg/l	0.00050	0.00010	1	08/21/13 14:16	08/26/13 19:10	1,6020A	BM
Nickel, Total	ND		mg/l	0.00050	0.00010	1	08/21/13 14:16	08/26/13 19:10	1,6020A	BM
Potassium, Total	ND		mg/l	0.100	0.0270	1	08/21/13 14:16	08/26/13 19:10	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	08/21/13 14:16	08/26/13 19:10	1,6020A	BM
Silver, Total	ND		mg/l	0.00050	0.00010	1	08/21/13 14:16	08/22/13 13:03	1,6020A	AK
Sodium, Total	ND		mg/l	0.100	0.0150	1	08/21/13 14:16	08/26/13 19:10	1,6020A	BM
Thallium, Total	0.00004	J	mg/l	0.00050	0.00003	1	08/21/13 14:16	08/26/13 19:10	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	08/21/13 14:16	08/26/13 19:10	1,6020A	BM
Zinc, Total	ND		mg/l	0.01000	0.00120	1	08/21/13 14:16	08/26/13 19:10	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 09-12 Batch: WG630708-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00200	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM
Antimony, Dissolved	0.00066	J	mg/l	0.00100	0.00010	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM
Arsenic, Dissolved	ND		mg/l	0.00050	0.00020	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM
Barium, Dissolved	ND		mg/l	0.00050	0.00010	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM

Project Name: 475 BAY STREET **Lab Number:** L1316206

Project Number: Not Specified **Report Date:** 08/28/13

Method Blank Analysis
Batch Quality Control

Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM
Calcium, Dissolved	ND		mg/l	0.100	0.0320	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM
Chromium, Dissolved	0.00036	J	mg/l	0.00100	0.00020	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00010	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM
Copper, Dissolved	ND		mg/l	0.00100	0.00010	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM
Iron, Dissolved	ND		mg/l	0.0500	0.0130	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM
Lead, Dissolved	ND		mg/l	0.00100	0.00020	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM
Magnesium, Dissolved	ND		mg/l	0.0700	0.0230	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM
Manganese, Dissolved	ND		mg/l	0.00050	0.00010	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM
Nickel, Dissolved	0.00011	J	mg/l	0.00050	0.00010	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM
Potassium, Dissolved	ND		mg/l	0.100	0.0270	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM
Selenium, Dissolved	ND		mg/l	0.00500	0.00030	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM
Silver, Dissolved	ND		mg/l	0.00040	0.00010	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM
Sodium, Dissolved	ND		mg/l	0.100	0.0150	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM
Thallium, Dissolved	0.00004	J	mg/l	0.00050	0.00003	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00010	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM
Zinc, Dissolved	0.00406	J	mg/l	0.01000	0.00120	1	08/21/13 01:40	08/26/13 23:35	1,6020A	BM

Prep Information

Digestion Method: NA

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG630741-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/23/13 08:26	08/23/13 11:21	1,7471B	MC

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): 04-08,13-14 Batch: WG630742-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/23/13 08:26	08/23/13 12:12	1,7471B	MC

Project Name: 475 BAY STREET
Project Number: Not Specified
Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

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): 01-08,13-14 Batch: WG630843-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG
Antimony, Total	ND		mg/kg	2.0	0.32	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG
Arsenic, Total	ND		mg/kg	0.40	0.08	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG
Barium, Total	ND		mg/kg	0.40	0.12	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG
Beryllium, Total	ND		mg/kg	0.20	0.04	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.40	0.03	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG
Calcium, Total	ND		mg/kg	4.0	1.2	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG
Chromium, Total	ND		mg/kg	0.40	0.08	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG
Cobalt, Total	ND		mg/kg	0.80	0.20	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG
Copper, Total	0.11	J	mg/kg	0.40	0.08	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG
Iron, Total	ND		mg/kg	2.0	0.80	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG
Lead, Total	ND		mg/kg	2.0	0.08	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG
Magnesium, Total	ND		mg/kg	4.0	0.40	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG
Manganese, Total	ND		mg/kg	0.40	0.08	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG
Nickel, Total	ND		mg/kg	1.0	0.16	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG
Potassium, Total	ND		mg/kg	100	16.	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG
Selenium, Total	ND		mg/kg	0.80	0.12	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG
Silver, Total	ND		mg/kg	0.40	0.08	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG
Sodium, Total	ND		mg/kg	80	12.	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG
Thallium, Total	ND		mg/kg	0.80	0.16	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG
Vanadium, Total	ND		mg/kg	0.40	0.04	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG
Zinc, Total	ND		mg/kg	2.0	0.28	1	08/22/13 12:28	08/26/13 12:34	1,6010C	MG

Prep Information

Digestion Method: EPA 3050B

Project Name: 475 BAY STREET
Project Number: Not Specified
Lab Number: L1316206
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 09-12 Batch: WG630848-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	08/23/13 08:00	08/23/13 12:52	1,7470A	DR

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 09-12 Batch: WG631190-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/24/13 06:48	08/24/13 10:02	1,7470A	DR

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316206

Report Date: 08/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 09-12 Batch: WG630572-2								
Aluminum, Total	111		-		80-120	-		
Antimony, Total	92		-		80-120	-		
Arsenic, Total	110		-		80-120	-		
Barium, Total	99		-		80-120	-		
Beryllium, Total	98		-		80-120	-		
Cadmium, Total	105		-		80-120	-		
Calcium, Total	104		-		80-120	-		
Chromium, Total	102		-		80-120	-		
Cobalt, Total	107		-		80-120	-		
Copper, Total	104		-		80-120	-		
Iron, Total	99		-		80-120	-		
Lead, Total	95		-		80-120	-		
Magnesium, Total	111		-		80-120	-		
Manganese, Total	103		-		80-120	-		
Nickel, Total	104		-		80-120	-		
Potassium, Total	109		-		80-120	-		
Selenium, Total	109		-		80-120	-		
Silver, Total	99		-		80-120	-		
Sodium, Total	110		-		80-120	-		
Thallium, Total	97		-		80-120	-		
Vanadium, Total	99		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316206

Report Date: 08/28/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 09-12 Batch: WG630572-2					
Zinc, Total	106	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316206

Report Date: 08/28/13

Parameter	LCS %Recovery		LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 09-12 Batch: WG630708-2						
Aluminum, Dissolved	112		-	80-120	-	
Antimony, Dissolved	93		-	80-120	-	
Arsenic, Dissolved	105		-	80-120	-	
Barium, Dissolved	100		-	80-120	-	
Beryllium, Dissolved	97		-	80-120	-	
Cadmium, Dissolved	106		-	80-120	-	
Calcium, Dissolved	104		-	80-120	-	
Chromium, Dissolved	103		-	80-120	-	
Cobalt, Dissolved	107		-	80-120	-	
Copper, Dissolved	**150**	Q	-	80-120	-	
Iron, Dissolved	116		-	80-120	-	
Lead, Dissolved	97		-	80-120	-	
Magnesium, Dissolved	111		-	80-120	-	
Manganese, Dissolved	104		-	80-120	-	
Nickel, Dissolved	109		-	80-120	-	
Potassium, Dissolved	110		-	80-120	-	
Selenium, Dissolved	105		-	80-120	-	
Silver, Dissolved	98		-	80-120	-	
Sodium, Dissolved	112		-	80-120	-	
Thallium, Dissolved	100		-	80-120	-	
Vanadium, Dissolved	101		-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 09-12 Batch: WG630708-2					
Zinc, Dissolved	110	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG630741-2 SRM Lot Number: 0518-10-02					
Mercury, Total	105	-	67-133	-	
Total Metals - Westborough Lab Associated sample(s): 04-08,13-14 Batch: WG630742-2 SRM Lot Number: 0518-10-02					
Mercury, Total	98	-	67-133	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316206

Report Date: 08/28/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-08,13-14 Batch: WG630843-2 SRM Lot Number: 0518-10-02					
Aluminum, Total	88	-	29-171	-	
Antimony, Total	117	-	4-196	-	
Arsenic, Total	100	-	81-119	-	
Barium, Total	100	-	83-118	-	
Beryllium, Total	104	-	83-117	-	
Cadmium, Total	94	-	82-117	-	
Calcium, Total	92	-	83-117	-	
Chromium, Total	97	-	80-119	-	
Cobalt, Total	99	-	83-117	-	
Copper, Total	101	-	83-117	-	
Iron, Total	101	-	51-150	-	
Lead, Total	94	-	80-120	-	
Magnesium, Total	92	-	74-126	-	
Manganese, Total	100	-	83-117	-	
Nickel, Total	99	-	82-117	-	
Potassium, Total	99	-	74-126	-	
Selenium, Total	106	-	80-120	-	
Silver, Total	98	-	66-134	-	
Sodium, Total	100	-	74-127	-	
Thallium, Total	101	-	79-120	-	
Vanadium, Total	98	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316206

Report Date: 08/28/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-08,13-14 Batch: WG630843-2 SRM Lot Number: 0518-10-02					
Zinc, Total	94	-	82-119	-	
Dissolved Metals - Westborough Lab Associated sample(s): 09-12 Batch: WG630848-2					
Mercury, Dissolved	96	-	70-130	-	
Total Metals - Westborough Lab Associated sample(s): 09-12 Batch: WG631190-2					
Mercury, Total	111	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

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): 09-12 QC Batch ID: WG630572-4 QC Sample: L1316224-01 Client ID: MS Sample												
Aluminum, Total	0.354	2	2.41	103		-	-		80-120	-		20
Antimony, Total	ND	0.5	0.4737	95		-	-		80-120	-		20
Arsenic, Total	0.00385	0.12	0.1350	109		-	-		80-120	-		20
Barium, Total	0.3805	2	2.310	96		-	-		80-120	-		20
Beryllium, Total	ND	0.05	0.04922	98		-	-		80-120	-		20
Cadmium, Total	ND	0.051	0.05118	100		-	-		80-120	-		20
Calcium, Total	798.	10	810	120		-	-		80-120	-		20
Chromium, Total	0.00551	0.2	0.1908	93		-	-		80-120	-		20
Cobalt, Total	0.0027	0.5	0.4858	97		-	-		80-120	-		20
Copper, Total	0.0057	0.25	0.2365	92		-	-		80-120	-		20
Iron, Total	4.26	1	5.14	88		-	-		80-120	-		20
Lead, Total	0.00247J	0.51	0.4856	95		-	-		80-120	-		20
Magnesium, Total	0.568	10	10.6	100		-	-		80-120	-		20
Manganese, Total	0.0149	0.5	0.4822	93		-	-		80-120	-		20
Nickel, Total	0.0969	0.5	0.5602	93		-	-		80-120	-		20
Potassium, Total	170.	10	181	110		-	-		80-120	-		20
Selenium, Total	0.00693J	0.12	0.107	89		-	-		80-120	-		20
Silver, Total	ND	0.05	0.04702	94		-	-		80-120	-		20
Sodium, Total	130.	10	140	100		-	-		80-120	-		20
Thallium, Total	ND	0.12	0.1179	98		-	-		80-120	-		20
Vanadium, Total	0.0012J	0.5	0.4650	93		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

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): 09-12 QC Batch ID: WG630572-4 QC Sample: L1316224-01 Client ID: MS Sample									
Zinc, Total	0.0467J	0.5	0.5260	105	-	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

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): 09-12 QC Batch ID: WG630708-4 QC Sample: L1316206-09 Client ID: TW-1										
Aluminum, Dissolved	0.0154	2	2.22	110		-	-	80-120	-	20
Antimony, Dissolved	0.00068J	0.5	0.5026	100		-	-	80-120	-	20
Arsenic, Dissolved	0.00466	0.12	0.1315	106		-	-	80-120	-	20
Barium, Dissolved	0.2612	2	2.252	100		-	-	80-120	-	20
Beryllium, Dissolved	ND	0.05	0.04807	96		-	-	80-120	-	20
Cadmium, Dissolved	ND	0.051	0.05432	106		-	-	80-120	-	20
Calcium, Dissolved	184.	10	187	**30**	Q	-	-	80-120	-	20
Chromium, Dissolved	0.00313	0.2	0.1980	97		-	-	80-120	-	20
Cobalt, Dissolved	0.00923	0.5	0.5146	101		-	-	80-120	-	20
Copper, Dissolved	0.00083J	0.25	0.2464	98		-	-	80-120	-	20
Iron, Dissolved	5.83	1	6.44	**61**	Q	-	-	80-120	-	20
Lead, Dissolved	0.00046J	0.51	0.4912	96		-	-	80-120	-	20
Magnesium, Dissolved	70.6	10	79.1	85		-	-	80-120	-	20
Manganese, Dissolved	3.214	0.5	3.560	**69**	Q	-	-	80-120	-	20
Nickel, Dissolved	0.04667	0.5	0.5409	99		-	-	80-120	-	20
Potassium, Dissolved	13.8	10	25.2	114		-	-	80-120	-	20
Selenium, Dissolved	0.00239J	0.12	0.124	103		-	-	80-120	-	20
Silver, Dissolved	0.00010J	0.05	0.04819	96		-	-	80-120	-	20
Sodium, Dissolved	126.	10	131	**50**	Q	-	-	80-120	-	20
Thallium, Dissolved	ND	0.12	0.1170	98		-	-	80-120	-	20
Vanadium, Dissolved	0.00113J	0.5	0.4876	98		-	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

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): 09-12 QC Batch ID: WG630708-4 QC Sample: L1316206-09 Client ID: TW-1										
Zinc, Dissolved	0.01569	0.5	0.5228	101		-	-	80-120	-	20
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG630741-4 QC Sample: L1316067-10 Client ID: MS Sample										
Mercury, Total	0.04J	0.175	0.23	**132**	Q	-	-	70-130	-	35
Total Metals - Westborough Lab Associated sample(s): 04-08,13-14 QC Batch ID: WG630742-4 QC Sample: L1316206-04 Client ID: SB-2 (18-20)										
Mercury, Total	ND	0.195	0.18	92		-	-	70-130	-	35

Matrix Spike Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

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): 01-08,13-14 QC Batch ID: WG630843-4 QC Sample: L1316206-01 Client ID: SB-1 (7-9)										
Aluminum, Total	5900	177	6100	113		-	-	75-125	-	35
Antimony, Total	ND	44.2	37	84		-	-	75-125	-	35
Arsenic, Total	5.5	10.6	15	89		-	-	75-125	-	35
Barium, Total	52.	177	220	95		-	-	75-125	-	35
Beryllium, Total	0.31J	4.42	4.6	104		-	-	75-125	-	35
Cadmium, Total	0.47J	4.51	4.8	106		-	-	75-125	-	35
Calcium, Total	3800	885	3400	**0**	Q	-	-	75-125	-	35
Chromium, Total	29.	17.7	49	113		-	-	75-125	-	35
Cobalt, Total	18.	44.2	66	108		-	-	75-125	-	35
Copper, Total	27.	22.1	69	**190**	Q	-	-	75-125	-	35
Iron, Total	19000	88.5	22000	**3390**	Q	-	-	75-125	-	35
Lead, Total	38.	45.1	64	**58**	Q	-	-	75-125	-	35
Magnesium, Total	15000	885	12000	**0**	Q	-	-	75-125	-	35
Manganese, Total	230	44.2	360	**294**	Q	-	-	75-125	-	35
Nickel, Total	260	44.2	370	**248**	Q	-	-	75-125	-	35
Potassium, Total	1100	885	2200	124		-	-	75-125	-	35
Selenium, Total	ND	10.6	9.9	93		-	-	75-125	-	35
Silver, Total	ND	26.6	24	90		-	-	75-125	-	35
Sodium, Total	460	885	1000	**61**	Q	-	-	75-125	-	35
Thallium, Total	ND	10.6	8.9	84		-	-	75-125	-	35
Vanadium, Total	22.	44.2	72	113		-	-	75-125	-	35

Matrix Spike Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

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): 01-08,13-14 QC Batch ID: WG630843-4 QC Sample: L1316206-01 Client ID: SB-1 (7-9)									
Zinc, Total	42.	44.2	77	79	-	-	75-125	-	35
Dissolved Metals - Westborough Lab Associated sample(s): 09-12 QC Batch ID: WG630848-4 QC Sample: L1316206-09 Client ID: TW-1									
Mercury, Dissolved	ND	0.00833	0.00851	102	-	-	70-130	-	20
Total Metals - Westborough Lab Associated sample(s): 09-12 QC Batch ID: WG631190-4 QC Sample: L1316420-09 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00612	122	-	-	70-130	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 09-12 QC Batch ID: WG630572-3 QC Sample: L1316224-01 Client ID: DUP Sample						
Silver, Total	ND	ND	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 09-12 QC Batch ID: WG630572-3 QC Sample: L1316224-01 Client ID: DUP Sample						
Arsenic, Total	0.00385	0.00375	mg/l	3		20
Barium, Total	0.3805	0.3612	mg/l	5		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	0.00551	0.00548	mg/l	1		20
Lead, Total	0.00247J	0.00215J	mg/l	NC		20
Selenium, Total	0.00693J	0.00679J	mg/l	NC		20
Dissolved Metals - Westborough Lab Associated sample(s): 09-12 QC Batch ID: WG630708-3 QC Sample: L1316206-09 Client ID: TW-1						
Calcium, Dissolved	184.	181.	mg/l	2		20
Magnesium, Dissolved	70.6	69.1	mg/l	2		20
Manganese, Dissolved	3.214	3.175	mg/l	1		20
Sodium, Dissolved	126.	125.	mg/l	1		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 09-12 QC Batch ID: WG630708-3 QC Sample: L1316206-09 Client ID: TW-1						
Aluminum, Dissolved	0.0154	0.0167	mg/l	8		20
Antimony, Dissolved	0.00068J	0.00066J	mg/l	NC		20
Arsenic, Dissolved	0.00466	0.00443	mg/l	5		20
Barium, Dissolved	0.2612	0.2590	mg/l	1		20
Beryllium, Dissolved	ND	ND	mg/l	NC		20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Chromium, Dissolved	0.00313	0.00231	mg/l	**30**	Q	20
Cobalt, Dissolved	0.00923	0.00910	mg/l	1		20
Copper, Dissolved	0.00083J	0.00078J	mg/l	NC		20
Iron, Dissolved	5.83	5.79	mg/l	1		20
Lead, Dissolved	0.00046J	0.00047J	mg/l	NC		20
Nickel, Dissolved	0.04667	0.04619	mg/l	1		20
Potassium, Dissolved	13.8	13.6	mg/l	1		20
Selenium, Dissolved	0.00239J	0.00197J	mg/l	NC		20
Silver, Dissolved	0.00010J	ND	mg/l	NC		20
Thallium, Dissolved	ND	ND	mg/l	NC		20
Vanadium, Dissolved	0.00113J	0.00093J	mg/l	NC		20
Zinc, Dissolved	0.01569	0.01563	mg/l	0		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG630741-3 QC Sample: L1316067-10 Client ID: DUP Sample					
Mercury, Total	0.04J	0.03J	mg/kg	NC	35
Total Metals - Westborough Lab Associated sample(s): 04-08,13-14 QC Batch ID: WG630742-3 QC Sample: L1316206-04 Client ID: SB-2 (18-20)					
Mercury, Total	ND	ND	mg/kg	NC	35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-08,13-14 QC Batch ID: WG630843-3 QC Sample: L1316206-01 Client ID: SB-1 (7-9)						
Aluminum, Total	5900	5500	mg/kg	7		35
Antimony, Total	ND	ND	mg/kg	NC		35
Arsenic, Total	5.5	3.9	mg/kg	34		35
Barium, Total	52.	48	mg/kg	8		35
Beryllium, Total	0.31J	0.28J	mg/kg	NC		35
Cadmium, Total	0.47J	0.48J	mg/kg	NC		35
Calcium, Total	3800	2100	mg/kg	**58**	Q	35
Chromium, Total	29.	30	mg/kg	3		35
Cobalt, Total	18.	18	mg/kg	0		35
Copper, Total	27.	34	mg/kg	23		35
Iron, Total	19000	20000	mg/kg	5		35
Lead, Total	38.	43	mg/kg	12		35
Magnesium, Total	15000	12000	mg/kg	22		35
Manganese, Total	230	260	mg/kg	12		35
Nickel, Total	260	280	mg/kg	7		35
Potassium, Total	1100	1100	mg/kg	0		35
Selenium, Total	ND	ND	mg/kg	NC		35
Silver, Total	ND	ND	mg/kg	NC		35
Sodium, Total	460	200	mg/kg	**79**	Q	35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-08,13-14 QC Batch ID: WG630843-3 QC Sample: L1316206-01 Client ID: SB-1 (7-9)					
Thallium, Total	ND	ND	mg/kg	NC	35
Vanadium, Total	22.	27	mg/kg	20	35
Zinc, Total	42.	40	mg/kg	5	35
Dissolved Metals - Westborough Lab Associated sample(s): 09-12 QC Batch ID: WG630848-3 QC Sample: L1316206-09 Client ID: TW-1					
Mercury, Dissolved	ND	ND	mg/l	NC	20
Total Metals - Westborough Lab Associated sample(s): 09-12 QC Batch ID: WG631190-3 QC Sample: L1316420-09 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-01
Client ID: SB-1 (7-9)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil

Date Collected: 08/20/13 09:15
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.5		%	0.100	NA	1	-	08/21/13 00:39	30,2540G	RT

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-02
Client ID: SB-1 (15-17)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil

Date Collected: 08/20/13 09:20
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.1		%	0.100	NA	1	-	08/21/13 00:39	30,2540G	RT

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-03
Client ID: SB-2 (0-2)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil

Date Collected: 08/20/13 10:55
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.5		%	0.100	NA	1	-	08/21/13 00:39	30,2540G	RT

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-04
Client ID: SB-2 (18-20)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil

Date Collected: 08/20/13 11:00
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.6		%	0.100	NA	1	-	08/21/13 00:39	30,2540G	RT

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-05
Client ID: SB-3 (0-2)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil

Date Collected: 08/20/13 12:00
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.7		%	0.100	NA	1	-	08/21/13 00:39	30,2540G	RT

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-06
Client ID: SB-3 (18-20)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil

Date Collected: 08/20/13 12:05
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.3		%	0.100	NA	1	-	08/21/13 00:39	30,2540G	RT

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-07
Client ID: SB-4 (7-9)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil

Date Collected: 08/20/13 13:30
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.1		%	0.100	NA	1	-	08/21/13 00:39	30,2540G	RT

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-08
Client ID: SB-4 (18-20)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil

Date Collected: 08/20/13 13:35
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	08/21/13 00:39	30,2540G	RT

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-13
Client ID: SB-5 (0-2)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil

Date Collected: 08/20/13 10:00
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	63.0		%	0.100	NA	1	-	08/21/13 00:39	30,2540G	RT

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316206-14
Client ID: SB-5 (18-20)
Sample Location: 475 BAY STREET, SI, NY
Matrix: Soil

Date Collected: 08/20/13 10:30
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.4		%	0.100	NA	1	-	08/21/13 00:39	30,2540G	RT

Lab Duplicate Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08,13-14 QC Batch ID: WG630401-1 QC Sample: L1316206-01 Client ID: SB-1 (7-9)						
Solids, Total	86.5	84.1	%	3		20

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316206-01A	Vial Large unpreserved	C	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1316206-01B	Amber 500ml unpreserved	C	N/A	2.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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),K-TI(180),NA-TI(180)
L1316206-02A	Vial Large unpreserved	C	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1316206-02B	Amber 500ml unpreserved	C	N/A	2.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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),K-TI(180),NA-TI(180)
L1316206-03A	Vial Large unpreserved	C	N/A	2.1	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316206-03B	Amber 500ml unpreserved	C	N/A	2.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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),K-TI(180),NA-TI(180)
L1316206-04A	Vial Large unpreserved	C	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1316206-04B	Amber 500ml unpreserved	C	N/A	2.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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),K-TI(180),NA-TI(180)
L1316206-05A	Vial Large unpreserved	C	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1316206-05B	Amber 500ml unpreserved	C	N/A	2.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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),K-TI(180),NA-TI(180)
L1316206-06A	Vial Large unpreserved	C	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1316206-06B	Amber 500ml unpreserved	C	N/A	2.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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),K-TI(180),NA-TI(180)
L1316206-07A	Vial Large unpreserved	C	N/A	2.1	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316206-07B	Amber 500ml unpreserved	C	N/A	2.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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),K-TI(180),NA-TI(180)
L1316206-08A	Vial Large unpreserved	C	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1316206-08B	Amber 500ml unpreserved	C	N/A	2.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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),K-TI(180),NA-TI(180)
L1316206-09A	Vial HCl preserved	B	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1316206-09B	Vial HCl preserved	B	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1316206-09C	Vial HCl preserved	B	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1316206-09D	Amber 1000ml unpreserved	B	7	2.3	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1316206-09E	Amber 1000ml unpreserved	B	7	2.3	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1316206-09F	Amber 1000ml unpreserved	B	7	2.3	Y	Absent	NYTCL-8082-1200ML(7)
L1316206-09G	Amber 1000ml unpreserved	B	7	2.3	Y	Absent	NYTCL-8082-1200ML(7)
L1316206-09H	Amber 500ml unpreserved	B	N/A	2.3	Y	Absent	NYTCL-8081(7)
L1316206-09I	Amber 500ml unpreserved	B	N/A	2.3	Y	Absent	NYTCL-8081(7)
L1316206-09J	Plastic 500ml HNO3 preserved	B	<2	2.3	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)
L1316206-09K	Plastic 500ml unpreserved	B	7	2.3	Y	Absent	FILTER-MET(1)

*Values in parentheses indicate holding time in days

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316206-09X	Plastic 250ml HNO3 preserved spl	B	<2	2.3	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)
L1316206-10A	Vial HCl preserved	B	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1316206-10B	Vial HCl preserved	B	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1316206-10C	Vial HCl preserved	B	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1316206-10D	Amber 1000ml unpreserved	B	7	2.3	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1316206-10E	Amber 1000ml unpreserved	B	7	2.3	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1316206-10F	Amber 1000ml unpreserved	B	7	2.3	Y	Absent	NYTCL-8082-1200ML(7)
L1316206-10G	Amber 1000ml unpreserved	B	7	2.3	Y	Absent	NYTCL-8082-1200ML(7)
L1316206-10H	Amber 500ml unpreserved	B	N/A	2.3	Y	Absent	NYTCL-8081(7)
L1316206-10I	Amber 500ml unpreserved	B	N/A	2.3	Y	Absent	NYTCL-8081(7)
L1316206-10J	Plastic 500ml HNO3 preserved	B	<2	2.3	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)
L1316206-10K	Plastic 500ml unpreserved	B	7	2.3	Y	Absent	FILTER-MET(1)
L1316206-10X	Plastic 250ml HNO3 preserved spl	B	<2	2.3	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)
L1316206-11A	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1316206-11B	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316206-11C	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1316206-11D	Amber 1000ml unpreserved	A	7	2.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1316206-11E	Amber 1000ml unpreserved	A	7	2.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1316206-11F	Amber 1000ml unpreserved	A	7	2.1	Y	Absent	NYTCL-8082-1200ML(7)
L1316206-11G	Amber 1000ml unpreserved	A	7	2.1	Y	Absent	NYTCL-8082-1200ML(7)
L1316206-11H	Amber 500ml unpreserved	A	N/A	2.1	Y	Absent	NYTCL-8081(7)
L1316206-11I	Amber 500ml unpreserved	A	N/A	2.1	Y	Absent	NYTCL-8081(7)
L1316206-11J	Plastic 500ml HNO3 preserved	A	<2	2.1	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)
L1316206-11K	Plastic 500ml unpreserved	A	7	2.1	Y	Absent	FILTER-MET(1)
L1316206-11X	Plastic 250ml HNO3 preserved spl	A	<2	2.1	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)
L1316206-12A	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1316206-12B	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1316206-12C	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1316206-12D	Amber 1000ml unpreserved	A	7	2.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1316206-12E	Amber 1000ml unpreserved	A	7	2.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1316206-12F	Amber 1000ml unpreserved	A	7	2.1	Y	Absent	NYTCL-8082-1200ML(7)
L1316206-12G	Amber 1000ml unpreserved	A	7	2.1	Y	Absent	NYTCL-8082-1200ML(7)
L1316206-12H	Amber 500ml unpreserved	A	N/A	2.1	Y	Absent	NYTCL-8081(7)
L1316206-12I	Amber 500ml unpreserved	A	N/A	2.1	Y	Absent	NYTCL-8081(7)

*Values in parentheses indicate holding time in days

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316206
Report Date: 08/28/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316206-12J	Plastic 500ml HNO3 preserved	A	<2	2.1	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)
L1316206-12K	Plastic 500ml unpreserved	A	7	2.1	Y	Absent	FILTER-MET(1)
L1316206-12X	Plastic 250ml HNO3 preserved spl	A	<2	2.1	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)
L1316206-13A	Vial Large unpreserved	C	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1316206-13B	Amber 500ml unpreserved	C	N/A	2.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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),K-TI(180),NA-TI(180)
L1316206-14A	Vial Large unpreserved	C	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1316206-14B	Amber 500ml unpreserved	C	N/A	2.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	475 BAY STREET	**Lab Number:**	L1316206
Project Number:	Not Specified	**Report Date:**	08/28/13

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.

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

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.

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.

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.

Report Format: DU Report with "J" Qualifiers

Project Name:	475 BAY STREET	**Lab Number:**	L1316206
Project Number:	Not Specified	**Report Date:**	08/28/13

Data Qualifiers

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: 475 BAY STREET
Project Number: Not Specified
Lab Number: L1316206
Report Date: 08/28/13

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.

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.

Certificate/Approval Program Summary

Last revised July 2, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

State of Illinois Certificate/Lab ID: 003155. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. Organic Parameters: EPA 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. Organic Parameters: EPA 608, 624, 625.)

Hazardous and Solid Waste (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. Organic Parameters: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: 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-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2064. ***NELAP Accredited.***
Drinking Water (Organic Parameters: **EPA 524.2:** Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene. **EPA 8015C(M):** TPH.)

Solid & Chemical Materials (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D,

9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 3015, 9010C, 9030B. Organic Parameters: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330, 8082A, EPA 3510C, 5030B, 8015C, 8011.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm

9030B, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
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 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

PAGE 1 OF 2

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 8/20/13

ALPHA Job #: L1316206

Client Information

Client: akrf inc
Address: 440 Park Ave South
Phone: 610 405 2847
Fax:
Email: dshapiro @ akrf.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 475 Bay Street
Project Location: 475 Bay Street, SI
Project #:
Project Manager: D. Shapiro
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 8/27/13 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ 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	VOC	SVOC	Pesticides	PCBs	TAL Metals (Total +Dissolved)							Sample Specific Comments	TOTAL # BOTTLES
16206 -01	SB-1 (7-9)	8/20/13	0915	S	aj	X	X	X	X	X								
-02	SB-1 (15-17)		0920	S	aj	X	X	X	X	X								
-03	SB-2 (0-2)		1055	S	aj	X	X	X	X	X								
-04	SB-2 (18-20)		1100	S	aj	X	X	X	X	X								
-05	SB-3 (0-2)		1200	S	aj	X	X	X	X	X								
-06	SB-3 (18-20)		1205	S	aj	X	X	X	X	X								
-07	SB-4 (7-9)		1330	S	aj	X	X	X	X	X								
-08	SB-4 (18-20)		1335	S	aj	X	X	X	X	X								
-09	TW-1		0950	GW	aj	X	X	X	X	X	X							
-10	TW-2		1120	GW	aj	X	X	X	X	X	X							
	Container Type																	
	Preservative																	

Relinquished By:	Date/Time	Received By:	Date/Time
	8/20/13 17:00		8/20/13 17:20
	8/20/13	18:10 Abdul Mabub	8/20/13 18:10
Abdul Mabub	8/20/13 22:30		8/20/13 22:30

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.

CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 8/20/13

ALPHA Job #: L1316206

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: AKRF INC

Address: 440 Park Ave S. NY NY 10016

Phone: 610 405 2847

Fax:

Email: dshapiro@akrf

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 475 Bay St.

Project Location: 475 Bay St SI NY

Project #:

Project Manager: D. Shapiro

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH *(only confirmed if pre-approved!)*

Date Due: 8/27/13 **Time:**

Report Information - Data Deliverables

☐ FAX ☑ EMAIL

☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC	SVOC	Pesticides	PCBs	TAL Metals (Total +Dissolved)						Sample Specific Comments	TOTAL # BOTTLES
16206 -11	TW-3	8/20/13	1300	GW	aj	X	X	X	X	X	X						
-12	TW-4	8/20/13	1400	GW	aj	X	X	X	X	X	X						
-13	SB-5 (0-2)	8/20/13	1000	S	aj	X	X	X	X	X							
-14	SB-5 (18-20)	8/20/13	1030	S	aj	X	X	X	X	X							

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type																
Preservative																

Relinquished By:	Date/Time	Received By:	Date/Time
	8/20/13 @		8/20/13
	8/20/13	18:10	8/20/13 18:10
	8/20/13 22:30		8/20/13 22:30

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.

ANALYTICAL REPORT

Lab Number:	L1316261
Client:	AKRF, Inc. 440 Park Avenue South 7th Floor New York, NY 10016
ATTN:	Deborah Shapiro
Phone:	(646) 388-9500
Project Name:	475 BAY ST
Project Number:	Not Specified
Report Date:	08/28/13

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), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), 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: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1316261-01	SV-1	475 BAY ST SI NY	08/21/13 10:44
L1316261-02	SV-2	475 BAY ST SI NY	08/21/13 11:30
L1316261-03	SV-4	475 BAY ST SI NY	08/21/13 10:57
L1316261-04	SV-3	475 BAY ST SI NY	08/21/13 19:27

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

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. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for 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 free of charge for 30 days from the date the project is completed. After 30 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.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on August 19, 2013. The canister certification results are provided as an addendum.

Samples L1316261-01, -02 and -03 have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the samples.

Sample L1316261-04 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

Sample L1316261-04 was re-analyzed at dilution in order to quantify the sample within the calibration range. The result should be considered estimated, and are qualified with an E flag, for any compound that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

Sample L1316261-04; the RPD of the pre- and post-flow controller calibration check (113% RPD) was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 36 mL/minute; the final flow rate was 10 mL/minute. The final pressure recorded by the laboratory of the associated canister was -14.3 inches of mercury.

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: 08/28/13

AIR

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316261-01 D
Client ID: SV-1
Sample Location: 475 BAY ST SI NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/26/13 23:12
Analyst: MB

Date Collected: 08/21/13 10:44
Date Received: 08/21/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Propylene	29.7	5.00	--	51.1	8.61	--		10
Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
Freon-114	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	ND	25.0	--	ND	47.1	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	225	10.0	--	534	23.8	--		10
Trichlorofluoromethane	ND	2.00	--	ND	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Methylene chloride	ND	10.0	--	ND	34.7	--		10
3-Chloropropene	ND	2.00	--	ND	6.26	--		10
Carbon disulfide	11.1	2.00	--	34.6	6.23	--		10
Freon-113	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
1,1-Dichloroethane	ND	2.00	--	ND	8.09	--		10
Methyl tert butyl ether	ND	2.00	--	ND	7.21	--		10
Vinyl acetate	ND	2.00	--	ND	7.04	--		10
2-Butanone	21.2	2.00	--	62.5	5.90	--		10
cis-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316261-01 D
Client ID: SV-1
Sample Location: 475 BAY ST SI NY

Date Collected: 08/21/13 10:44
Date Received: 08/21/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10
Chloroform	ND	2.00	--	ND	9.77	--		10
Tetrahydrofuran	ND	2.00	--	ND	5.90	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	3.48	2.00	--	12.3	7.05	--		10
1,1,1-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Benzene	2.37	2.00	--	7.57	6.39	--		10
Carbon tetrachloride	4.60	2.00	--	28.9	12.6	--		10
Cyclohexane	ND	2.00	--	ND	6.88	--		10
1,2-Dichloropropane	ND	2.00	--	ND	9.24	--		10
Bromodichloromethane	ND	2.00	--	ND	13.4	--		10
1,4-Dioxane	ND	2.00	--	ND	7.21	--		10
Trichloroethene	ND	2.00	--	ND	10.7	--		10
2,2,4-Trimethylpentane	ND	2.00	--	ND	9.34	--		10
Heptane	2.40	2.00	--	9.84	8.20	--		10
cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
4-Methyl-2-pentanone	ND	2.00	--	ND	8.20	--		10
trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Toluene	6.15	2.00	--	23.2	7.54	--		10
2-Hexanone	2.96	2.00	--	12.1	8.20	--		10
Dibromochloromethane	ND	2.00	--	ND	17.0	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	11.5	2.00	--	78.0	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	2.36	2.00	--	10.3	8.69	--		10
p/m-Xylene	7.55	4.00	--	32.8	17.4	--		10
Bromoform	ND	2.00	--	ND	20.7	--		10

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316261-01 D
Client ID: SV-1
Sample Location: 475 BAY ST SI NY

Date Collected: 08/21/13 10:44
Date Received: 08/21/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	2.00	--	ND	8.52	--		10
1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--		10
o-Xylene	3.97	2.00	--	17.2	8.69	--		10
4-Ethyltoluene	ND	2.00	--	ND	9.83	--		10
1,3,5-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
1,2,4-Trimethylbenzene	2.31	2.00	--	11.4	9.83	--		10
Benzyl chloride	ND	2.00	--	ND	10.4	--		10
1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,4-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--		10
Hexachlorobutadiene	ND	2.00	--	ND	21.3	--		10

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	88		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	91		60-140

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316261-02 D
Client ID: SV-2
Sample Location: 475 BAY ST SI NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/26/13 23:42
Analyst: MB

Date Collected: 08/21/13 11:30
Date Received: 08/21/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Propylene	280	5.00	--	482	8.61	--		10
Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
Freon-114	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
1,3-Butadiene	3.57	2.00	--	7.90	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	ND	25.0	--	ND	47.1	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	356	10.0	--	846	23.8	--		10
Trichlorofluoromethane	ND	2.00	--	ND	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Methylene chloride	ND	10.0	--	ND	34.7	--		10
3-Chloropropene	ND	2.00	--	ND	6.26	--		10
Carbon disulfide	5.80	2.00	--	18.1	6.23	--		10
Freon-113	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
1,1-Dichloroethane	ND	2.00	--	ND	8.09	--		10
Methyl tert butyl ether	ND	2.00	--	ND	7.21	--		10
Vinyl acetate	ND	2.00	--	ND	7.04	--		10
2-Butanone	14.9	2.00	--	43.9	5.90	--		10
cis-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316261-02 D
Client ID: SV-2
Sample Location: 475 BAY ST SI NY

Date Collected: 08/21/13 11:30
Date Received: 08/21/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10
Chloroform	4.22	2.00	--	20.6	9.77	--		10
Tetrahydrofuran	ND	2.00	--	ND	5.90	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	5.26	2.00	--	18.5	7.05	--		10
1,1,1-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Benzene	2.16	2.00	--	6.90	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	3.27	2.00	--	11.3	6.88	--		10
1,2-Dichloropropane	ND	2.00	--	ND	9.24	--		10
Bromodichloromethane	ND	2.00	--	ND	13.4	--		10
1,4-Dioxane	ND	2.00	--	ND	7.21	--		10
Trichloroethene	ND	2.00	--	ND	10.7	--		10
2,2,4-Trimethylpentane	ND	2.00	--	ND	9.34	--		10
Heptane	2.31	2.00	--	9.47	8.20	--		10
cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
4-Methyl-2-pentanone	ND	2.00	--	ND	8.20	--		10
trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Toluene	5.45	2.00	--	20.5	7.54	--		10
2-Hexanone	ND	2.00	--	ND	8.20	--		10
Dibromochloromethane	ND	2.00	--	ND	17.0	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	ND	2.00	--	ND	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10
p/m-Xylene	6.34	4.00	--	27.5	17.4	--		10
Bromoform	ND	2.00	--	ND	20.7	--		10

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316261-02 D
Client ID: SV-2
Sample Location: 475 BAY ST SI NY

Date Collected: 08/21/13 11:30
Date Received: 08/21/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	2.00	--	ND	8.52	--		10
1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--		10
o-Xylene	2.98	2.00	--	12.9	8.69	--		10
4-Ethyltoluene	ND	2.00	--	ND	9.83	--		10
1,3,5-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
1,2,4-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
Benzyl chloride	ND	2.00	--	ND	10.4	--		10
1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,4-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--		10
Hexachlorobutadiene	ND	2.00	--	ND	21.3	--		10

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	87		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	90		60-140

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316261-03 D
Client ID: SV-4
Sample Location: 475 BAY ST SI NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/27/13 00:13
Analyst: MB

Date Collected: 08/21/13 10:57
Date Received: 08/21/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Propylene	20.6	5.00	--	35.5	8.61	--		10
Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
Freon-114	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	ND	25.0	--	ND	47.1	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	391	10.0	--	929	23.8	--		10
Trichlorofluoromethane	ND	2.00	--	ND	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Methylene chloride	ND	10.0	--	ND	34.7	--		10
3-Chloropropene	ND	2.00	--	ND	6.26	--		10
Carbon disulfide	ND	2.00	--	ND	6.23	--		10
Freon-113	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
1,1-Dichloroethane	ND	2.00	--	ND	8.09	--		10
Methyl tert butyl ether	ND	2.00	--	ND	7.21	--		10
Vinyl acetate	ND	2.00	--	ND	7.04	--		10
2-Butanone	5.64	2.00	--	16.6	5.90	--		10
cis-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316261-03 D
Client ID: SV-4
Sample Location: 475 BAY ST SI NY

Date Collected: 08/21/13 10:57
Date Received: 08/21/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10
Chloroform	ND	2.00	--	ND	9.77	--		10
Tetrahydrofuran	ND	2.00	--	ND	5.90	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	14.5	2.00	--	51.1	7.05	--		10
1,1,1-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Benzene	ND	2.00	--	ND	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	8.59	2.00	--	29.6	6.88	--		10
1,2-Dichloropropane	ND	2.00	--	ND	9.24	--		10
Bromodichloromethane	ND	2.00	--	ND	13.4	--		10
1,4-Dioxane	ND	2.00	--	ND	7.21	--		10
Trichloroethene	ND	2.00	--	ND	10.7	--		10
2,2,4-Trimethylpentane	ND	2.00	--	ND	9.34	--		10
Heptane	3.20	2.00	--	13.1	8.20	--		10
cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
4-Methyl-2-pentanone	ND	2.00	--	ND	8.20	--		10
trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Toluene	5.83	2.00	--	22.0	7.54	--		10
2-Hexanone	ND	2.00	--	ND	8.20	--		10
Dibromochloromethane	ND	2.00	--	ND	17.0	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	ND	2.00	--	ND	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10
p/m-Xylene	7.24	4.00	--	31.4	17.4	--		10
Bromoform	ND	2.00	--	ND	20.7	--		10

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316261-03 D
Client ID: SV-4
Sample Location: 475 BAY ST SI NY

Date Collected: 08/21/13 10:57
Date Received: 08/21/13
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								
Styrene	ND	2.00	--	ND	8.52	--		10
1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--		10
o-Xylene	4.01	2.00	--	17.4	8.69	--		10
4-Ethyltoluene	ND	2.00	--	ND	9.83	--		10
1,3,5-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
1,2,4-Trimethylbenzene	3.03	2.00	--	14.9	9.83	--		10
Benzyl chloride	ND	2.00	--	ND	10.4	--		10
1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,4-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--		10
Hexachlorobutadiene	ND	2.00	--	ND	21.3	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	90		60-140

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316261-04 D
Client ID: SV-3
Sample Location: 475 BAY ST SI NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/27/13 00:43
Analyst: MB

Date Collected: 08/21/13 19:27
Date Received: 08/22/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Propylene	1730	5.00	--	2980	8.61	--	E	10
Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
Freon-114	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	57.3	25.0	--	108	47.1	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	1340	10.0	--	3180	23.8	--		10
Trichlorofluoromethane	ND	2.00	--	ND	11.2	--		10
Isopropanol	7.47	5.00	--	18.4	12.3	--		10
1,1-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Methylene chloride	ND	10.0	--	ND	34.7	--		10
3-Chloropropene	ND	2.00	--	ND	6.26	--		10
Carbon disulfide	3.29	2.00	--	10.2	6.23	--		10
Freon-113	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
1,1-Dichloroethane	ND	2.00	--	ND	8.09	--		10
Methyl tert butyl ether	ND	2.00	--	ND	7.21	--		10
Vinyl acetate	ND	2.00	--	ND	7.04	--		10
2-Butanone	53.1	2.00	--	157	5.90	--		10
cis-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316261-04 D
Client ID: SV-3
Sample Location: 475 BAY ST SI NY

Date Collected: 08/21/13 19:27
Date Received: 08/22/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10
Chloroform	ND	2.00	--	ND	9.77	--		10
Tetrahydrofuran	ND	2.00	--	ND	5.90	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	13.1	2.00	--	46.2	7.05	--		10
1,1,1-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Benzene	6.22	2.00	--	19.9	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	6.97	2.00	--	24.0	6.88	--		10
1,2-Dichloropropane	ND	2.00	--	ND	9.24	--		10
Bromodichloromethane	ND	2.00	--	ND	13.4	--		10
1,4-Dioxane	ND	2.00	--	ND	7.21	--		10
Trichloroethene	ND	2.00	--	ND	10.7	--		10
2,2,4-Trimethylpentane	ND	2.00	--	ND	9.34	--		10
Heptane	4.96	2.00	--	20.3	8.20	--		10
cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
4-Methyl-2-pentanone	ND	2.00	--	ND	8.20	--		10
trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Toluene	7.52	2.00	--	28.3	7.54	--		10
2-Hexanone	5.34	2.00	--	21.9	8.20	--		10
Dibromochloromethane	ND	2.00	--	ND	17.0	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	ND	2.00	--	ND	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10
p/m-Xylene	5.49	4.00	--	23.8	17.4	--		10
Bromoform	ND	2.00	--	ND	20.7	--		10

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316261-04 D
Client ID: SV-3
Sample Location: 475 BAY ST SI NY

Date Collected: 08/21/13 19:27
Date Received: 08/22/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	2.00	--	ND	8.52	--		10
1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--		10
o-Xylene	2.56	2.00	--	11.1	8.69	--		10
4-Ethyltoluene	ND	2.00	--	ND	9.83	--		10
1,3,5-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
1,2,4-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
Benzyl chloride	ND	2.00	--	ND	10.4	--		10
1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,4-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--		10
Hexachlorobutadiene	ND	2.00	--	ND	21.3	--		10

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	85		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	88		60-140

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

SAMPLE RESULTS

Lab ID: L1316261-04 D2
Client ID: SV-3
Sample Location: 475 BAY ST SI NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/27/13 10:53
Analyst: MB

Date Collected: 08/21/13 19:27
Date Received: 08/22/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Propylene	2600	27.3	--	4470	47.0	--		54.52

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	83		60-140
Bromochloromethane	83		60-140
chlorobenzene-d5	98		60-140

Project Name: 475 BAY ST
Project Number: Not Specified
Lab Number: L1316261
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/26/13 14:52

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: WG631635-4								
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
Methylene chloride	ND	1.00	--	ND	3.47	--		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	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: 475 BAY ST
Project Number: Not Specified
Lab Number: L1316261
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/26/13 14:52

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: WG631635-4								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		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	0.200	--	ND	0.820	--		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
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/26/13 14:52

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: WG631635-4								
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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

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: WG631635-3								
Chlorodifluoromethane	84		-		70-130	-		
Propylene	90		-		70-130	-		
Propane	**67**	Q	-		70-130	-		
Dichlorodifluoromethane	96		-		70-130	-		
Chloromethane	91		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	97		-		70-130	-		
Methanol	83		-		70-130	-		
Vinyl chloride	96		-		70-130	-		
1,3-Butadiene	98		-		70-130	-		
Butane	91		-		70-130	-		
Bromomethane	97		-		70-130	-		
Chloroethane	97		-		70-130	-		
Ethyl Alcohol	95		-		70-130	-		
Dichlorofluoromethane	90		-		70-130	-		
Vinyl bromide	96		-		70-130	-		
Acrolein	92		-		70-130	-		
Acetone	105		-		70-130	-		
Acetonitrile	86		-		70-130	-		
Trichlorofluoromethane	101		-		70-130	-		
iso-Propyl Alcohol	87		-		70-130	-		
Acrylonitrile	88		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY ST

Project Number: Not Specified

Lab Number: L1316261

Report Date: 08/28/13

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: WG631635-3								
Pentane	85		-		70-130	-		
Ethyl ether	81		-		70-130	-		
1,1-Dichloroethene	100		-		70-130	-		
tert-Butyl Alcohol	94		-		70-130	-		
Methylene chloride	90		-		70-130	-		
3-Chloropropene	85		-		70-130	-		
Carbon disulfide	94		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	102		-		70-130	-		
trans-1,2-Dichloroethene	88		-		70-130	-		
1,1-Dichloroethane	97		-		70-130	-		
Methyl tert butyl ether	97		-		70-130	-		
Vinyl acetate	100		-		70-130	-		
2-Butanone	95		-		70-130	-		
cis-1,2-Dichloroethene	110		-		70-130	-		
Ethyl Acetate	84		-		70-130	-		
Chloroform	103		-		70-130	-		
Tetrahydrofuran	92		-		70-130	-		
2,2-Dichloropropane	96		-		70-130	-		
1,2-Dichloroethane	101		-		70-130	-		
n-Hexane	91		-		70-130	-		
Isopropyl Ether	77		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY ST

Project Number: Not Specified

Lab Number: L1316261

Report Date: 08/28/13

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: WG631635-3								
Ethyl-Tert-Butyl-Ether	85		-		70-130	-		
1,1,1-Trichloroethane	94		-		70-130	-		
1,1-Dichloropropene	80		-		70-130	-		
Benzene	77		-		70-130	-		
Carbon tetrachloride	97		-		70-130	-		
Cyclohexane	86		-		70-130	-		
Tertiary-Amyl Methyl Ether	84		-		70-130	-		
Dibromomethane	86		-		70-130	-		
1,2-Dichloropropane	89		-		70-130	-		
Bromodichloromethane	90		-		70-130	-		
1,4-Dioxane	88		-		70-130	-		
Trichloroethene	91		-		70-130	-		
2,2,4-Trimethylpentane	88		-		70-130	-		
Methyl methacrylate	94		-		70-130	-		
Heptane	84		-		70-130	-		
cis-1,3-Dichloropropene	99		-		70-130	-		
4-Methyl-2-pentanone	85		-		70-130	-		
trans-1,3-Dichloropropene	87		-		70-130	-		
1,1,2-Trichloroethane	93		-		70-130	-		
Toluene	92		-		70-130	-		
1,3-Dichloropropane	86		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

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: WG631635-3								
2-Hexanone	93		-		70-130	-		
Dibromochloromethane	93		-		70-130	-		
1,2-Dibromoethane	83		-		70-130	-		
Butyl Acetate	96		-		70-130	-		
Octane	88		-		70-130	-		
Tetrachloroethene	93		-		70-130	-		
1,1,1,2-Tetrachloroethane	92		-		70-130	-		
Chlorobenzene	94		-		70-130	-		
Ethylbenzene	94		-		70-130	-		
p/m-Xylene	96		-		70-130	-		
Bromoform	93		-		70-130	-		
Styrene	96		-		70-130	-		
1,1,2,2-Tetrachloroethane	95		-		70-130	-		
o-Xylene	98		-		70-130	-		
1,2,3-Trichloropropane	87		-		70-130	-		
Nonane (C9)	96		-		70-130	-		
Isopropylbenzene	93		-		70-130	-		
Bromobenzene	90		-		70-130	-		
o-Chlorotoluene	92		-		70-130	-		
n-Propylbenzene	91		-		70-130	-		
p-Chlorotoluene	88		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

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: WG631635-3								
4-Ethyltoluene	87		-		70-130	-		
1,3,5-Trimethylbenzene	97		-		70-130	-		
tert-Butylbenzene	94		-		70-130	-		
1,2,4-Trimethylbenzene	102		-		70-130	-		
Decane (C10)	88		-		70-130	-		
Benzyl chloride	91		-		70-130	-		
1,3-Dichlorobenzene	96		-		70-130	-		
1,4-Dichlorobenzene	97		-		70-130	-		
sec-Butylbenzene	91		-		70-130	-		
p-Isopropyltoluene	86		-		70-130	-		
1,2-Dichlorobenzene	96		-		70-130	-		
n-Butylbenzene	94		-		70-130	-		
1,2-Dibromo-3-chloropropane	107		-		70-130	-		
Undecane	98		-		70-130	-		
Dodecane (C12)	**221**	Q	-		70-130	-		
1,2,4-Trichlorobenzene	108		-		70-130	-		
Naphthalene	101		-		70-130	-		
1,2,3-Trichlorobenzene	107		-		70-130	-		
Hexachlorobutadiene	117		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG631635-5 QC Sample: L1316390-02 Client ID: DUP Sample						
Propylene	0.712	ND	ppbV	NC		25
Dichlorodifluoromethane	1.31	1.30	ppbV	1		25
Chloromethane	0.323	0.366	ppbV	12		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	22.8	21.3	ppbV	7		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	84.2	84.2	ppbV	0		25
Trichlorofluoromethane	0.316	0.323	ppbV	2		25
iso-Propyl Alcohol	7.76	7.10	ppbV	9		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	1.88	1.91	ppbV	2		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: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG631635-5 QC Sample: L1316390-02 Client ID: DUP Sample					
1,1-Dichloroethane	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
Vinyl acetate	ND	ND	ppbV	NC	25
2-Butanone	1.10	1.11	ppbV	1	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
Ethyl Acetate	ND	ND	ppbV	NC	25
Chloroform	ND	ND	ppbV	NC	25
Tetrahydrofuran	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
n-Hexane	0.963	1.02	ppbV	6	25
1,1,1-Trichloroethane	0.240	0.234	ppbV	3	25
Benzene	2.29	2.34	ppbV	2	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Cyclohexane	0.668	0.695	ppbV	4	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
1,4-Dioxane	0.498	0.491	ppbV	1	25
Trichloroethene	ND	ND	ppbV	NC	25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG631635-5 QC Sample: L1316390-02 Client ID: DUP Sample					
Heptane	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	0.227	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	2.25	2.36	ppbV	5	25
2-Hexanone	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	1.93	2.00	ppbV	4	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

Lab Duplicate Analysis
Batch Quality Control

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG631635-5 QC Sample: L1316390-02 Client ID: DUP Sample					
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC	25
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: 475 BAY ST

Lab Number: L1316261

Project Number:

Report Date: 08/28/13

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
L1316261-01	SV-1	0577	#30 SV	08/19/13	92110		-	-	-	Pass	40	44	10
L1316261-01	SV-1	1050	6.0L Can	08/19/13	92110	L1315505-02	Pass	-29.4	-5.9	-	-	-	-
L1316261-02	SV-2	0435	#30 SV	08/19/13	92110		-	-	-	Pass	35	33	6
L1316261-02	SV-2	1897	6.0L Can	08/19/13	92110	L1315505-02	Pass	-29.2	-7.6	-	-	-	-
L1316261-03	SV-4	0578	#30 SV	08/19/13	92110		-	-	-	Pass	40	43	7
L1316261-03	SV-4	1881	6.0L Can	08/19/13	92110	L1315505-02	Pass	-29.1	-7.0	-	-	-	-
L1316261-04	SV-3	0391	#30 SV	08/19/13	92110		-	-	-	Pass	36	10	113
L1316261-04	SV-3	986	6.0L Can	08/19/13	92110	L1315505-02	Pass	-29.4	-14.3	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1315505
Report Date: 08/28/13

Air Canister Certification Results

Lab ID: L1315505-02
Client ID: CAN 760 SHELF 47
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/14/13 19:19
Analyst: MB

Date Collected: 08/09/13 17:08
Date Received: 08/12/13
Field Prep: Not Specified

	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	0.200	--	ND	0.361	--		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
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
Ethanol	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
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		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
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1315505
Report Date: 08/28/13

Air Canister Certification Results

Lab ID: L1315505-02
Client ID: CAN 760 SHELF 47
Sample Location:
Date Collected: 08/09/13 17:08
Date Received: 08/12/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		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	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		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	0.200	--	ND	0.590	--		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
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl 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
tert-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: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1315505
Report Date: 08/28/13

Air Canister Certification Results

Lab ID: L1315505-02
Client ID: CAN 760 SHELF 47
Sample Location:
Date Collected: 08/09/13 17:08
Date Received: 08/12/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**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	0.200	--	ND	0.820	--		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	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: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1315505
Report Date: 08/28/13

Air Canister Certification Results

Lab ID: L1315505-02
Client ID: CAN 760 SHELF 47
Sample Location:

Date Collected: 08/09/13 17:08
Date Received: 08/12/13
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-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-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	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	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: BATCH CANISTER CERTIFICATION **Lab Number:** L1315505

Project Number: CANISTER QC BAT **Report Date:** 08/28/13

Air Canister Certification Results

Lab ID: L1315505-02 Date Collected: 08/09/13 17:08

Client ID: CAN 760 SHELF 47 Date Received: 08/12/13

Sample Location: 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	95		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	92		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1315505
Report Date: 08/28/13

Air Canister Certification Results

Lab ID: L1315505-02
Client ID: CAN 760 SHELF 47
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/14/13 19:19
Analyst: RY

Date Collected: 08/09/13 17:08
Date Received: 08/12/13
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								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	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	2.00	--	ND	4.75	--		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	1.00	--	ND	3.47	--		1
Freon-113	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: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1315505
Report Date: 08/28/13

Air Canister Certification Results

Lab ID: L1315505-02
Client ID: CAN 760 SHELF 47
Sample Location:
Date Collected: 08/09/13 17:08
Date Received: 08/12/13
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								
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	0.500	--	ND	2.46	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	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	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1315505
Report Date: 08/28/13

Air Canister Certification Results

Lab ID: L1315505-02
Client ID: CAN 760 SHELF 47
Sample Location:
Date Collected: 08/09/13 17:08
Date Received: 08/12/13
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	0.500	--	ND	2.74	--		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	98		60-140
chlorobenzene-d5	95		60-140

Project Name: 475 BAY ST
Project Number: Not Specified

Lab Number: L1316261
Report Date: 08/28/13

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 Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316261-01A	Canister - 6 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)
L1316261-02A	Canister - 6 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)
L1316261-03A	Canister - 6 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)
L1316261-04A	Canister - 6 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	475 BAY ST	**Lab Number:**	L1316261
Project Number:	Not Specified	**Report Date:**	08/28/13

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.
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

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.
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.
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.

Report Format: Data Usability Report

Project Name:	475 BAY ST	**Lab Number:**	L1316261
Project Number:	Not Specified	**Report Date:**	08/28/13

Data Qualifiers

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: 475 BAY ST
Project Number: Not Specified
Lab Number: L1316261
Report Date: 08/28/13

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.

Certificate/Approval Program Summary

Last revised August 3, 2012 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable). Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Titanium, Vanadium, Zinc, Total Organic Carbon, Corrosivity, TCLP 1311, SPLP 1312. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020A, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050B, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

Air & Emissions (EPA TO-15.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 180.1, 1631E, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B, 3020A, . Organic Parameters: EPA 3510C, 3630C, 3640A, 3660B, 8081B, 8082A, 8270C, 8270D, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 3050B, 3051A, 6020A, 7471B, 9040B, 9045C. Organic Parameters: SW-846 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 8270C, 8015D, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3020A, SM2320B, SM2540D, 2540G, 4500H-B, EPA 180.1, 1631E, SW-846 7470A, 9040C, 6020A, 9050A. Organic Parameters: SW-846 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 8015D, 8081B, 8082A, 8270C, 8270D)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 6020A, 7471B, 7474, 9040B, 9040C, 9045C, 9045D, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 3630C, 3640A, 3660B, 3665A, 8081B, 8082A, 8270C, 8270D, 8015D.)

Atmospheric Organic Parameters (EPA 3C, TO-15, TO-10A, TO-13A-SIM.)

Biological Tissue (Inorganic Parameters: SW-846 6020A. Organic Parameters: SW-846 8270C, 8270D, 3510C, 3570, 3610C, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, 6020A, 1631E, 7470A, 9050A, EPA 180.1, 3020A. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 3510C.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020A, 7471B, 7474, 9040C, 9045D. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 1311, 3050B, 3580A, 3570, 3051A.)

Air & Emissions (EPA TO-15, TO-10A.)

Pennsylvania Certificate/Lab ID: 68-02089 ***NELAP Accredited***

Non-Potable Water (Inorganic Parameters: 1312, 1631E, 180.1, 3020A, 6020A, 7470A, 9040B, 9050A, 2320B, 2540D, 2540G, SM4500H+-B. Organic Parameters: 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 8015D, 8081B, 8082A, 8270C, 8270D .)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 3051A, 6020A, 7471B, 7474 9040B, 9045C, 9060. Organic Parameters: EPA3050B, 3540C, 3570, 3580A, 3630C, 3640A, 3660B, 3665A, 8270C, 8270D, 8081B, 8015D, 8082A.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via NJ-DEP.***

Refer to NJ-DEP Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID:460194. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters:EPA 3020A, 6020A, 245.7, 9040B. Organic Parameters: EPA 3510C, 3640A, 3660B, 3665A, 8270C, 8270D, 8082A, 8081B, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020A,7470A,7471B,9040B,9045C,3050B,3051, 9060. Organic Parameters: EPA 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 3570, 8270C, 8270D, 8081B, 8082A, 8015D.)

Washington State Department of Ecology Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 180.1, 1631E.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 7474, 9045C, 9050A, 9060. Organic Parameters: EPA 8081, 8082, 8015, 8270.)

U.S. Army Corps of Engineers

Department of Defense, L-A-B Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 8270C, 8270D, 8270C-ALK-PAH, 8270D-ALK-PAH, 8082A, 8081B, 8015D-SHC, 8015D.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 8270C, 8270D, 8270C-ALK-PAH, 8270D-ALK-PAH 8082A, 8081B, 8015D-SHC, 8015D.

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C:** Biphenyl. **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, 2-Methylnaphthalene, 1-Methylnaphthalene.

Serial_No:08281316:22

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:

ALPHA Job #: L1316261

Client Information

Client: akrf, inc
Address: 440 Park Ave S.
Ny, ny 10016
Phone: 610 405 2847
Fax:
Email: dshapiro@akrf.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 475 Bay Street
Project Location: 475 Bay St. SI, NY
Project #: 11802
Project Manager: d. Shapiro
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH *(only confirmed if pre-approved!)*

Date Due: **Time:**

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 #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments: Sample should be reported w/ shipment on 8/21/13 (SV-1, SV-2, SV-4)

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)
L1316261-4	SV-3	8/21/13	0857	1927	-31.29	-14.98	SV	aj	6L	986	0391		X						tox > 2 hrs

***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:
	0330 8/22/13		8/22/13 8:30
	8/22/13 18:50		8/22/13 18:50
	8/22/13 23:50		8/22/13 23:50
	8/23/13 04:30	Mansfield Lab	8/23/13 0430

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L1316261

Client Information

Client: AKRF INC
Address: 440 Park Ave S.
NY NY 10016
Phone: 610 405 2847
Fax:
Email: dshapiro@akrf.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 475 Bay St.
Project Location: 475 Bay St S(NY)
Project #:
Project Manager: D. Shapiro
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH *(only confirmed if pre-approved!)*
Date Due: Time:

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 #:

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)
16261-01	SV-1	8/21/13	0841	1044	-30.69	-5.75	SV	gj	6L	1050	0577		X						
-02	SV-2		0848	1130	-30.89	-7.16	SV	gj	6L	18970435			X						SV-3
~~-03~~	~~SV-3~~		0857		-31.29		SV	gj	6L	986	0391		X						to be picked
-03	SV-4		0902	1057	-29.73	-6.02	SV	gj	6L	1881	0578		X						up 8/22/13
																			from NYC office

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type: C S

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:
A. Jordan	8/21/13 1255		8/21/13 12:55
	8/21/13 18:35		8/21/13 18:35
	8/21/13 23:55		8/21/13 23:55
	8/22/13 0330	Mansfield Lab	8/22/13 03:30

ANALYTICAL REPORT

Lab Number:	L1316298
Client:	AKRF, Inc. 440 Park Avenue South 7th Floor New York, NY 10016
ATTN:	Deborah Shapiro
Phone:	(646) 388-9500
Project Name:	475 BAY STREET
Project Number:	Not Specified
Report Date:	08/30/13

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), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1316298-01	SB-6 (7-9)	475 BAY ST, SI, NY	08/21/13 09:40
L1316298-02	SB-6 (18-20)	475 BAY ST, SI, NY	08/21/13 09:45
L1316298-03	SB-7 (6-8)	475 BAY ST, SI, NY	08/21/13 09:20
L1316298-04	SB-7 (18-20)	475 BAY ST, SI, NY	08/21/13 09:15
L1316298-05	SB-8 (6-8)	475 BAY ST, SI, NY	08/21/13 08:20
L1316298-06	SB-8 (18-20)	475 BAY ST, SI, NY	08/21/13 08:25
L1316298-07	TB	475 BAY ST, SI, NY	08/21/13 00:00

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

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. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for 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 free of charge for 30 days from the date the project is completed. After 30 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.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 475 BAY STREET **Lab Number:** L1316298
Project Number: Not Specified **Report Date:** 08/30/13

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

Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

Pesticides

L1316298-05 has elevated detection limits due to the dilution required by the sample matrix.
The surrogate recoveries for L1316298-05 are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene and decachlorobiphenyl (both 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

L1316298-01 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 WG631173-4 MS recoveries for aluminum (0%), iron (0%), magnesium (0%), and manganese (67%), performed on L1316298-01, do not apply because the sample concentration is greater than four times the spike amount added.
The WG631173-4 MS recoveries, performed on L1316298-01, are below the acceptance criteria for chromium (72%), copper (71%), nickel (45%), and potassium (33%). A post digestion spike was performed with acceptable recoveries for chromium (89%), copper (92%), nickel (80%), and potassium (92%).
The WG631173-4 MS recovery, performed on L1316298-01, is below the acceptance criteria for zinc (74%). A post digestion spike was performed with an unacceptable recovery of 78%. This has been attributed to sample matrix.
The WG631173-3 Laboratory Duplicate RPD, performed on L1316298-01, is outside the acceptance criteria for lead (36%). The elevated RPD has been attributed to the non-homogeneous nature of the sample utilized

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Case Narrative (continued)

for the Laboratory Duplicate.

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: Cynthia McQueen

Title: Technical Director/Representative Date: 08/30/13

ORGANICS

VOLATILES

Project Name: 475 BAY STREET
Project Number: Not Specified
Lab Number: L1316298
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-01
Client ID: SB-6 (7-9)
Sample Location: 475 BAY ST, SI, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/27/13 16:22
Analyst: PP
Percent Solids: 87%

Date Collected: 08/21/13 09:40
Date Received: 08/21/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.20	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	0.35	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	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	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.13	1
Bromodichloromethane	ND		ug/kg	1.1	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.7	0.52	1
Bromoform	ND		ug/kg	4.6	0.48	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.20	1
Benzene	1.4		ug/kg	1.1	0.14	1
Toluene	ND		ug/kg	1.7	0.13	1
Ethylbenzene	ND		ug/kg	1.1	0.17	1
Chloromethane	ND		ug/kg	5.7	0.90	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	ND		ug/kg	2.3	0.16	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.28	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-01 Date Collected: 08/21/13 09:40

Client ID: SB-6 (7-9) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.12	1
p/m-Xylene	ND		ug/kg	2.3	0.37	1
o-Xylene	ND		ug/kg	2.3	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.17	1
Dibromomethane	ND		ug/kg	11	0.19	1
Styrene	ND		ug/kg	2.3	0.35	1
Dichlorodifluoromethane	ND		ug/kg	11	0.25	1
Acetone	11		ug/kg	11	3.6	1
Carbon disulfide	ND		ug/kg	11	2.3	1
2-Butanone	2.0	J	ug/kg	11	0.41	1
Vinyl acetate	ND		ug/kg	11	0.55	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.26	1
2-Hexanone	ND		ug/kg	11	0.22	1
Bromochloromethane	ND		ug/kg	5.7	0.22	1
2,2-Dichloropropane	ND		ug/kg	5.7	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.7	0.20	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	0.23	1
sec-Butylbenzene	ND		ug/kg	1.1	0.24	1
tert-Butylbenzene	ND		ug/kg	5.7	0.64	1
o-Chlorotoluene	ND		ug/kg	5.7	0.18	1
p-Chlorotoluene	ND		ug/kg	5.7	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	0.90	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.48	1
Isopropylbenzene	ND		ug/kg	1.1	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.7	0.88	1
Acrylonitrile	ND		ug/kg	11	0.27	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.90	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	0.66	1
1,4-Dioxane	ND		ug/kg	110	20.	1
1,4-Diethylbenzene	ND		ug/kg	4.6	0.18	1
4-Ethyltoluene	ND		ug/kg	4.6	0.13	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-01 Date Collected: 08/21/13 09:40

Client ID: SB-6 (7-9) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.6	0.15	1
Ethyl ether	ND		ug/kg	5.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	0.51	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	95		70-130

Project Name: 475 BAY STREET
Project Number: Not Specified
Lab Number: L1316298
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-02
Client ID: SB-6 (18-20)
Sample Location: 475 BAY ST, SI, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/27/13 16:49
Analyst: PP
Percent Solids: 88%

Date Collected: 08/21/13 09:45
Date Received: 08/21/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.20	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	0.35	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	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	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.13	1
Bromodichloromethane	ND		ug/kg	1.1	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.7	0.52	1
Bromoform	ND		ug/kg	4.6	0.47	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.19	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.13	1
Ethylbenzene	ND		ug/kg	1.1	0.17	1
Chloromethane	ND		ug/kg	5.7	0.89	1
Bromomethane	ND		ug/kg	2.3	0.38	1
Vinyl chloride	ND		ug/kg	2.3	0.16	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.28	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-02 Date Collected: 08/21/13 09:45

Client ID: SB-6 (18-20) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.12	1
p/m-Xylene	ND		ug/kg	2.3	0.37	1
o-Xylene	ND		ug/kg	2.3	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.17	1
Dibromomethane	ND		ug/kg	11	0.19	1
Styrene	ND		ug/kg	2.3	0.35	1
Dichlorodifluoromethane	ND		ug/kg	11	0.25	1
Acetone	32		ug/kg	11	3.5	1
Carbon disulfide	ND		ug/kg	11	2.3	1
2-Butanone	6.1	J	ug/kg	11	0.40	1
Vinyl acetate	ND		ug/kg	11	0.55	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.26	1
2-Hexanone	ND		ug/kg	11	0.21	1
Bromochloromethane	ND		ug/kg	5.7	0.22	1
2,2-Dichloropropane	ND		ug/kg	5.7	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.7	0.20	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	0.22	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.7	0.64	1
o-Chlorotoluene	ND		ug/kg	5.7	0.18	1
p-Chlorotoluene	ND		ug/kg	5.7	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	0.90	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.48	1
Isopropylbenzene	ND		ug/kg	1.1	0.19	1
p-Isopropyltoluene	49		ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.7	0.88	1
Acrylonitrile	ND		ug/kg	11	0.27	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.90	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	0.65	1
1,4-Dioxane	ND		ug/kg	110	20.	1
1,4-Diethylbenzene	ND		ug/kg	4.6	0.18	1
4-Ethyltoluene	ND		ug/kg	4.6	0.13	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-02 Date Collected: 08/21/13 09:45

Client ID: SB-6 (18-20) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.6	0.15	1
Ethyl ether	ND		ug/kg	5.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	0.51	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	95		70-130

Project Name: 475 BAY STREET
Project Number: Not Specified
Lab Number: L1316298
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-03
Client ID: SB-7 (6-8)
Sample Location: 475 BAY ST, SI, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/27/13 17:17
Analyst: PP
Percent Solids: 88%

Date Collected: 08/21/13 09:20
Date Received: 08/21/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.20	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	0.35	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	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.7	0.52	1
Bromoform	ND		ug/kg	4.5	0.47	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.19	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.13	1
Ethylbenzene	ND		ug/kg	1.1	0.17	1
Chloromethane	ND		ug/kg	5.7	0.89	1
Bromomethane	ND		ug/kg	2.3	0.38	1
Vinyl chloride	ND		ug/kg	2.3	0.16	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.27	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-03 Date Collected: 08/21/13 09:20

Client ID: SB-7 (6-8) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.12	1
p/m-Xylene	ND		ug/kg	2.3	0.37	1
o-Xylene	ND		ug/kg	2.3	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.17	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.3	0.35	1
Dichlorodifluoromethane	ND		ug/kg	11	0.25	1
Acetone	55		ug/kg	11	3.5	1
Carbon disulfide	ND		ug/kg	11	2.3	1
2-Butanone	11		ug/kg	11	0.40	1
Vinyl acetate	ND		ug/kg	11	0.54	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.26	1
2-Hexanone	ND		ug/kg	11	0.21	1
Bromochloromethane	ND		ug/kg	5.7	0.22	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	0.20	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	0.22	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.7	0.64	1
o-Chlorotoluene	ND		ug/kg	5.7	0.18	1
p-Chlorotoluene	ND		ug/kg	5.7	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	0.90	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.48	1
Isopropylbenzene	ND		ug/kg	1.1	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	1.5	J	ug/kg	5.7	0.87	1
Acrylonitrile	ND		ug/kg	11	0.27	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.90	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	0.65	1
1,4-Dioxane	ND		ug/kg	110	20.	1
1,4-Diethylbenzene	ND		ug/kg	4.5	0.18	1
4-Ethyltoluene	ND		ug/kg	4.5	0.13	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-03 Date Collected: 08/21/13 09:20

Client ID: SB-7 (6-8) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	0.51	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	96		70-130

Project Name: 475 BAY STREET
Project Number: Not Specified
Lab Number: L1316298
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-04
Client ID: SB-7 (18-20)
Sample Location: 475 BAY ST, SI, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/27/13 17:44
Analyst: PP
Percent Solids: 88%

Date Collected: 08/21/13 09:15
Date Received: 08/21/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.20	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	0.35	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	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.7	0.52	1
Bromoform	ND		ug/kg	4.5	0.47	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.19	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.13	1
Ethylbenzene	ND		ug/kg	1.1	0.17	1
Chloromethane	ND		ug/kg	5.7	0.89	1
Bromomethane	ND		ug/kg	2.3	0.38	1
Vinyl chloride	ND		ug/kg	2.3	0.16	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.27	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-04 Date Collected: 08/21/13 09:15

Client ID: SB-7 (18-20) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.12	1
p/m-Xylene	ND		ug/kg	2.3	0.36	1
o-Xylene	ND		ug/kg	2.3	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.17	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.3	0.35	1
Dichlorodifluoromethane	ND		ug/kg	11	0.25	1
Acetone	31		ug/kg	11	3.5	1
Carbon disulfide	ND		ug/kg	11	2.3	1
2-Butanone	5.7	J	ug/kg	11	0.40	1
Vinyl acetate	ND		ug/kg	11	0.54	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.25	1
2-Hexanone	ND		ug/kg	11	0.21	1
Bromochloromethane	ND		ug/kg	5.7	0.22	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	0.20	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	0.22	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.7	0.64	1
o-Chlorotoluene	ND		ug/kg	5.7	0.18	1
p-Chlorotoluene	ND		ug/kg	5.7	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	0.90	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.48	1
Isopropylbenzene	ND		ug/kg	1.1	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.7	0.87	1
Acrylonitrile	ND		ug/kg	11	0.27	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.90	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	0.65	1
1,4-Dioxane	ND		ug/kg	110	20.	1
1,4-Diethylbenzene	ND		ug/kg	4.5	0.18	1
4-Ethyltoluene	ND		ug/kg	4.5	0.13	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-04 Date Collected: 08/21/13 09:15

Client ID: SB-7 (18-20) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	0.51	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	97		70-130

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID:	L1316298-05	D2	Date Collected:	08/21/13 08:20
Client ID:	SB-8 (6-8)		Date Received:	08/21/13
Sample Location:	475 BAY ST, SI, NY		Field Prep:	Not Specified
Matrix:	Soil			
Analytical Method:	1,8260C			
Analytical Date:	08/28/13 15:35			
Analyst:	PP			
Percent Solids:	78%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Naphthalene	9800		ug/kg	320	49.	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	96		70-130

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID:	L1316298-05 D	Date Collected:	08/21/13 08:20
Client ID:	SB-8 (6-8)	Date Received:	08/21/13
Sample Location:	475 BAY ST, SI, NY	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260C		
Analytical Date:	08/27/13 18:12		
Analyst:	PP		
Percent Solids:	78%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	64	13.	5
1,1-Dichloroethane	ND		ug/kg	9.6	1.1	5
Chloroform	ND		ug/kg	9.6	2.4	5
Carbon tetrachloride	ND		ug/kg	6.4	1.3	5
1,2-Dichloropropane	ND		ug/kg	22	1.5	5
Dibromochloromethane	ND		ug/kg	6.4	2.0	5
1,1,2-Trichloroethane	ND		ug/kg	9.6	1.9	5
Tetrachloroethene	ND		ug/kg	6.4	0.90	5
Chlorobenzene	ND		ug/kg	6.4	2.2	5
Trichlorofluoromethane	ND		ug/kg	32	0.78	5
1,2-Dichloroethane	ND		ug/kg	6.4	0.94	5
1,1,1-Trichloroethane	ND		ug/kg	6.4	0.71	5
Bromodichloromethane	ND		ug/kg	6.4	1.5	5
trans-1,3-Dichloropropene	ND		ug/kg	6.4	0.77	5
cis-1,3-Dichloropropene	ND		ug/kg	6.4	0.81	5
1,1-Dichloropropene	ND		ug/kg	32	2.9	5
Bromoform	ND		ug/kg	26	2.6	5
1,1,2,2-Tetrachloroethane	ND		ug/kg	6.4	1.1	5
Benzene	ND		ug/kg	6.4	0.76	5
Toluene	ND		ug/kg	9.6	0.72	5
Ethylbenzene	5.0	J	ug/kg	6.4	0.94	5
Chloromethane	ND		ug/kg	32	5.0	5
Bromomethane	ND		ug/kg	13	2.2	5
Vinyl chloride	ND		ug/kg	13	0.90	5
Chloroethane	ND		ug/kg	13	2.0	5
1,1-Dichloroethene	ND		ug/kg	6.4	1.3	5
trans-1,2-Dichloroethene	ND		ug/kg	9.6	1.4	5
Trichloroethene	ND		ug/kg	6.4	0.97	5
1,2-Dichlorobenzene	ND		ug/kg	32	1.2	5
1,3-Dichlorobenzene	ND		ug/kg	32	1.2	5
1,4-Dichlorobenzene	ND		ug/kg	32	1.5	5

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-05 D Date Collected: 08/21/13 08:20

Client ID: SB-8 (6-8) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	13	0.67	5
p/m-Xylene	6.7	J	ug/kg	13	2.1	5
o-Xylene	5.4	J	ug/kg	13	1.7	5
cis-1,2-Dichloroethene	ND		ug/kg	6.4	0.96	5
Dibromomethane	ND		ug/kg	64	1.0	5
Styrene	ND		ug/kg	13	2.0	5
Dichlorodifluoromethane	ND		ug/kg	64	1.4	5
Acetone	160		ug/kg	64	20.	5
Carbon disulfide	ND		ug/kg	64	13.	5
2-Butanone	43	J	ug/kg	64	2.3	5
Vinyl acetate	ND		ug/kg	64	3.1	5
4-Methyl-2-pentanone	ND		ug/kg	64	1.6	5
1,2,3-Trichloropropane	ND		ug/kg	64	1.4	5
2-Hexanone	ND		ug/kg	64	1.2	5
Bromochloromethane	ND		ug/kg	32	1.3	5
2,2-Dichloropropane	ND		ug/kg	32	1.4	5
1,2-Dibromoethane	ND		ug/kg	26	1.1	5
1,3-Dichloropropane	ND		ug/kg	32	1.1	5
1,1,1,2-Tetrachloroethane	ND		ug/kg	6.4	2.0	5
Bromobenzene	ND		ug/kg	32	1.3	5
n-Butylbenzene	ND		ug/kg	6.4	1.3	5
sec-Butylbenzene	ND		ug/kg	6.4	1.3	5
tert-Butylbenzene	ND		ug/kg	32	3.6	5
o-Chlorotoluene	ND		ug/kg	32	1.0	5
p-Chlorotoluene	ND		ug/kg	32	0.98	5
1,2-Dibromo-3-chloropropane	ND		ug/kg	32	5.0	5
Hexachlorobutadiene	ND		ug/kg	32	2.7	5
Isopropylbenzene	ND		ug/kg	6.4	1.1	5
p-Isopropyltoluene	ND		ug/kg	6.4	1.2	5
Naphthalene	2700	E	ug/kg	32	4.9	5
Acrylonitrile	ND		ug/kg	64	1.5	5
n-Propylbenzene	ND		ug/kg	6.4	0.80	5
1,2,3-Trichlorobenzene	ND		ug/kg	32	1.1	5
1,2,4-Trichlorobenzene	ND		ug/kg	32	5.0	5
1,3,5-Trimethylbenzene	6.2	J	ug/kg	32	0.92	5
1,2,4-Trimethylbenzene	11	J	ug/kg	32	3.7	5
1,4-Dioxane	ND		ug/kg	640	110	5
1,4-Diethylbenzene	7.9	J	ug/kg	26	1.0	5
4-Ethyltoluene	4.7	J	ug/kg	26	0.75	5

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-05 D Date Collected: 08/21/13 08:20

Client ID: SB-8 (6-8) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	7.5	J	ug/kg	26	0.83	5
Ethyl ether	ND		ug/kg	32	1.7	5
trans-1,4-Dichloro-2-butene	ND		ug/kg	32	2.9	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	97		70-130

Project Name: 475 BAY STREET
Project Number: Not Specified
Lab Number: L1316298
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-06
Client ID: SB-8 (18-20)
Sample Location: 475 BAY ST, SI, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/28/13 17:55
Analyst: PP
Percent Solids: 87%

Date Collected: 08/21/13 08:25
Date Received: 08/21/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.20	1
Chloroform	ND		ug/kg	1.7	0.43	1
Carbon tetrachloride	ND		ug/kg	1.2	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.2	0.36	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	1
Tetrachloroethene	ND		ug/kg	1.2	0.16	1
Chlorobenzene	ND		ug/kg	1.2	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.8	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
1,1-Dichloropropene	ND		ug/kg	5.8	0.53	1
Bromoform	ND		ug/kg	4.6	0.48	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.20	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.7	0.13	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	5.8	0.90	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	ND		ug/kg	2.3	0.16	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.2	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.8	0.28	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-06 Date Collected: 08/21/13 08:25

Client ID: SB-8 (18-20) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.12	1
p/m-Xylene	ND		ug/kg	2.3	0.37	1
o-Xylene	ND		ug/kg	2.3	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	12	0.19	1
Styrene	ND		ug/kg	2.3	0.36	1
Dichlorodifluoromethane	ND		ug/kg	12	0.25	1
Acetone	6.9	J	ug/kg	12	3.6	1
Carbon disulfide	ND		ug/kg	12	2.3	1
2-Butanone	1.8	J	ug/kg	12	0.41	1
Vinyl acetate	ND		ug/kg	12	0.55	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.26	1
2-Hexanone	ND		ug/kg	12	0.22	1
Bromochloromethane	ND		ug/kg	5.8	0.23	1
2,2-Dichloropropane	ND		ug/kg	5.8	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.8	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Bromobenzene	ND		ug/kg	5.8	0.24	1
n-Butylbenzene	ND		ug/kg	1.2	0.23	1
sec-Butylbenzene	ND		ug/kg	1.2	0.24	1
tert-Butylbenzene	ND		ug/kg	5.8	0.65	1
o-Chlorotoluene	ND		ug/kg	5.8	0.18	1
p-Chlorotoluene	ND		ug/kg	5.8	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.8	0.91	1
Hexachlorobutadiene	ND		ug/kg	5.8	0.49	1
Isopropylbenzene	ND		ug/kg	1.2	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.22	1
Naphthalene	31		ug/kg	5.8	0.89	1
Acrylonitrile	ND		ug/kg	12	0.27	1
n-Propylbenzene	ND		ug/kg	1.2	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.8	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.8	0.91	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.8	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.8	0.66	1
1,4-Dioxane	ND		ug/kg	120	20.	1
1,4-Diethylbenzene	ND		ug/kg	4.6	0.18	1
4-Ethyltoluene	ND		ug/kg	4.6	0.14	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-06 Date Collected: 08/21/13 08:25

Client ID: SB-8 (18-20) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.6	0.15	1
Ethyl ether	ND		ug/kg	5.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	0.52	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-07
Client ID: TB
Sample Location: 475 BAY ST, SI, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/22/13 17:01
Analyst: PD

Date Collected: 08/21/13 00:00
Date Received: 08/21/13
Field Prep: Not Specified

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	ND		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	ND		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
1,1-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	0.33	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	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-07 Date Collected: 08/21/13 00:00

Client ID: TB Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
cis-1,2-Dichloroethene	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	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	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
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1
4-Ethyltoluene	ND		ug/l	2.0	0.70	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-07 Date Collected: 08/21/13 00:00

Client ID: TB Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	110		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	102		70-130

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/22/13 10:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG630904-3					
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
1,1-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	0.33
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
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/22/13 10:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG630904-3					
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
cis-1,2-Dichloroethene	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
Isopropyl Ether	ND		ug/l	2.0	0.65
tert-Butyl Alcohol	ND		ug/l	10	1.2
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
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
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
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

Project Name: 475 BAY STREET
Project Number: Not Specified
Lab Number: L1316298
Report Date: 08/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/22/13 10:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG630904-3					
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	0.24
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.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.70
1,4-Diethylbenzene	ND		ug/l	2.0	0.70
4-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
Methyl cyclohexane	ND		ug/l	10	0.29

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	100		70-130

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/27/13 15:54
Analyst: PP

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG632202-3					
Methylene chloride	ND		ug/kg	10	2.0
1,1-Dichloroethane	ND		ug/kg	1.5	0.18
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	0.31
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	0.12
1,2-Dichloroethane	ND		ug/kg	1.0	0.15
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.23
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13
1,1-Dichloropropene	ND		ug/kg	5.0	0.46
Bromoform	ND		ug/kg	4.0	0.41
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Chloromethane	ND		ug/kg	5.0	0.78
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.14
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.20
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.15
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/27/13 15:54
Analyst: PP

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG632202-3					
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.31
Dichlorodifluoromethane	ND		ug/kg	10	0.22
Acetone	ND		ug/kg	10	3.1
Carbon disulfide	ND		ug/kg	10	2.0
2-Butanone	ND		ug/kg	10	0.36
Vinyl acetate	ND		ug/kg	10	0.48
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.22
2-Hexanone	ND		ug/kg	10	0.19
Bromochloromethane	ND		ug/kg	5.0	0.20
2,2-Dichloropropane	ND		ug/kg	5.0	0.22
1,2-Dibromoethane	ND		ug/kg	4.0	0.18
1,3-Dichloropropane	ND		ug/kg	5.0	0.17
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	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.79
Hexachlorobutadiene	ND		ug/kg	5.0	0.42
Isopropylbenzene	ND		ug/kg	1.0	0.17
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77
Acrylonitrile	ND		ug/kg	10	0.24

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/27/13 15:54
Analyst: PP

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG632202-3					
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.79
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57
1,4-Dioxane	ND		ug/kg	100	17.
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.45

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	94		70-130

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/13 13:14
Analyst: PP

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG632202-6					
Methylene chloride	ND		ug/kg	10	2.0
1,1-Dichloroethane	ND		ug/kg	1.5	0.18
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	0.31
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	0.12
1,2-Dichloroethane	ND		ug/kg	1.0	0.15
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.23
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13
1,1-Dichloropropene	ND		ug/kg	5.0	0.46
Bromoform	ND		ug/kg	4.0	0.41
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17
Benzene	ND		ug/kg	1.0	0.12
Toluene	0.21	J	ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Chloromethane	ND		ug/kg	5.0	0.78
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.14
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.20
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.15
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/13 13:14
Analyst: PP

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG632202-6					
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.31
Dichlorodifluoromethane	ND		ug/kg	10	0.22
Acetone	ND		ug/kg	10	3.1
Carbon disulfide	ND		ug/kg	10	2.0
2-Butanone	ND		ug/kg	10	0.36
Vinyl acetate	ND		ug/kg	10	0.48
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.22
2-Hexanone	ND		ug/kg	10	0.19
Bromochloromethane	ND		ug/kg	5.0	0.20
2,2-Dichloropropane	ND		ug/kg	5.0	0.22
1,2-Dibromoethane	ND		ug/kg	4.0	0.18
1,3-Dichloropropane	ND		ug/kg	5.0	0.17
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	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.79
Hexachlorobutadiene	ND		ug/kg	5.0	0.42
Isopropylbenzene	ND		ug/kg	1.0	0.17
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77
Acrylonitrile	ND		ug/kg	10	0.24

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/13 13:14
Analyst: PP

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG632202-6					
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	0.91
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,2,3-Trichlorobenzene	0.41	J	ug/kg	5.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.79
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57
Methyl Acetate	ND		ug/kg	20	0.76
Ethyl Acetate	ND		ug/kg	20	0.82
Acrolein	ND		ug/kg	25	9.2
Cyclohexane	ND		ug/kg	20	1.1
1,4-Dioxane	ND		ug/kg	100	17.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-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	0.38
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.45
Methyl cyclohexane	ND		ug/kg	4.0	1.3
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.42
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.58

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	101		70-130

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/13 13:14
Analyst: PP

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG632304-3					
Methylene chloride	ND		ug/kg	10	2.0
1,1-Dichloroethane	ND		ug/kg	1.5	0.18
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	0.31
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	0.12
1,2-Dichloroethane	ND		ug/kg	1.0	0.15
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.23
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13
1,1-Dichloropropene	ND		ug/kg	5.0	0.46
Bromoform	ND		ug/kg	4.0	0.41
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17
Benzene	ND		ug/kg	1.0	0.12
Toluene	0.21	J	ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Chloromethane	ND		ug/kg	5.0	0.78
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.14
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.20
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.15
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/13 13:14
Analyst: PP

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG632304-3					
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.31
Dichlorodifluoromethane	ND		ug/kg	10	0.22
Acetone	ND		ug/kg	10	3.1
Carbon disulfide	ND		ug/kg	10	2.0
2-Butanone	ND		ug/kg	10	0.36
Vinyl acetate	ND		ug/kg	10	0.48
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.22
2-Hexanone	ND		ug/kg	10	0.19
Bromochloromethane	ND		ug/kg	5.0	0.20
2,2-Dichloropropane	ND		ug/kg	5.0	0.22
1,2-Dibromoethane	ND		ug/kg	4.0	0.18
1,3-Dichloropropane	ND		ug/kg	5.0	0.17
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	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.79
Hexachlorobutadiene	ND		ug/kg	5.0	0.42
Isopropylbenzene	ND		ug/kg	1.0	0.17
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77
Acrylonitrile	ND		ug/kg	10	0.24

Project Name: 475 BAY STREET
Project Number: Not Specified
Lab Number: L1316298
Report Date: 08/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/13 13:14
Analyst: PP

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG632304-3					
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	0.91
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,2,3-Trichlorobenzene	0.41	J	ug/kg	5.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.79
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57
Methyl Acetate	ND		ug/kg	20	0.76
Ethyl Acetate	ND		ug/kg	20	0.82
Acrolein	ND		ug/kg	25	9.2
Cyclohexane	ND		ug/kg	20	1.1
1,4-Dioxane	ND		ug/kg	100	17.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-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	0.38
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.45
Methyl cyclohexane	ND		ug/kg	4.0	1.3
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.42
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.58

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316298

Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG630904-1 WG630904-2								
Methylene chloride	103		103		70-130	0		20
1,1-Dichloroethane	99		98		70-130	1		20
Chloroform	99		97		70-130	2		20
2-Chloroethylvinyl ether	96		96		70-130	0		20
Carbon tetrachloride	101		100		63-132	1		20
1,2-Dichloropropane	96		96		70-130	0		20
Dibromochloromethane	97		96		63-130	1		20
1,1,2-Trichloroethane	100		98		70-130	2		20
Tetrachloroethene	100		97		70-130	3		20
Chlorobenzene	102		101		75-130	1		20
Trichlorofluoromethane	124		120		62-150	3		20
1,2-Dichloroethane	97		99		70-130	2		20
1,1,1-Trichloroethane	100		99		67-130	1		20
Bromodichloromethane	101		101		67-130	0		20
trans-1,3-Dichloropropene	97		98		70-130	1		20
cis-1,3-Dichloropropene	95		97		70-130	2		20
1,1-Dichloropropene	100		97		70-130	3		20
Bromoform	99		99		54-136	0		20
1,1,2,2-Tetrachloroethane	91		92		67-130	1		20
Benzene	104		102		70-130	2		20
Toluene	105		102		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG630904-1 WG630904-2								
Ethylbenzene	109		106		70-130	3		20
Chloromethane	82		85		64-130	4		20
Bromomethane	66		64		39-139	3		20
Vinyl chloride	112		114		55-140	2		20
Chloroethane	119		119		55-138	0		20
1,1-Dichloroethene	109		108		61-145	1		20
trans-1,2-Dichloroethene	97		96		70-130	1		20
Trichloroethene	101		98		70-130	3		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	104		102		70-130	2		20
1,4-Dichlorobenzene	99		98		70-130	1		20
Methyl tert butyl ether	89		94		63-130	5		20
p/m-Xylene	108		107		70-130	1		20
o-Xylene	111		108		70-130	3		20
cis-1,2-Dichloroethene	101		99		70-130	2		20
Dibromomethane	98		103		70-130	5		20
1,2,3-Trichloropropane	96		95		64-130	1		20
Acrylonitrile	81		84		70-130	4		20
Isopropyl Ether	90		90		70-130	0		20
tert-Butyl Alcohol	86		92		70-130	7		20
Styrene	114		112		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316298

Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG630904-1 WG630904-2								
Dichlorodifluoromethane	100		96		36-147	4		20
Acetone	125		112		58-148	11		20
Carbon disulfide	99		97		51-130	2		20
2-Butanone	87		98		63-138	12		20
Vinyl acetate	86		89		70-130	3		20
4-Methyl-2-pentanone	73		76		59-130	4		20
2-Hexanone	90		87		57-130	3		20
Bromochloromethane	103		102		70-130	1		20
2,2-Dichloropropane	107		105		63-133	2		20
1,2-Dibromoethane	92		92		70-130	0		20
1,3-Dichloropropane	98		97		70-130	1		20
1,1,1,2-Tetrachloroethane	102		101		64-130	1		20
Bromobenzene	101		99		70-130	2		20
n-Butylbenzene	99		100		53-136	1		20
sec-Butylbenzene	105		103		70-130	2		20
tert-Butylbenzene	102		102		70-130	0		20
o-Chlorotoluene	113		111		70-130	2		20
p-Chlorotoluene	108		106		70-130	2		20
1,2-Dibromo-3-chloropropane	86		88		41-144	2		20
Hexachlorobutadiene	93		92		63-130	1		20
Isopropylbenzene	109		105		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG630904-1 WG630904-2								
p-Isopropyltoluene	102		101		70-130	1		20
Naphthalene	99		109		70-130	10		20
n-Propylbenzene	104		102		69-130	2		20
1,2,3-Trichlorobenzene	89		95		70-130	7		20
1,2,4-Trichlorobenzene	87		95		70-130	9		20
1,3,5-Trimethylbenzene	105		105		64-130	0		20
1,2,4-Trimethylbenzene	98		99		70-130	1		20
Methyl Acetate	88		87		70-130	1		20
Ethyl Acetate	86		89		70-130	3		20
Cyclohexane	93		93		70-130	0		20
Ethyl-Tert-Butyl-Ether	88		89		70-130	1		20
Tertiary-Amyl Methyl Ether	90		93		66-130	3		20
1,4-Dioxane	91		96		56-162	5		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	120		116		70-130	3		20
1,4-Diethylbenzene	99		99		70-130	0		20
4-Ethyltoluene	104		102		70-130	2		20
1,2,4,5-Tetramethylbenzene	120		122		70-130	2		20
Ethyl ether	111		109		59-134	2		20
trans-1,4-Dichloro-2-butene	72		77		70-130	7		20
Methyl cyclohexane	100		98		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316298

Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG630904-1 WG630904-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		102		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	104		102		70-130
Dibromofluoromethane	97		99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG632202-1 WG632202-2								
Methylene chloride	96		86		70-130	11		30
1,1-Dichloroethane	87		74		70-130	16		30
Chloroform	85		76		70-130	11		30
Carbon tetrachloride	89		**69**	Q	70-130	25		30
1,2-Dichloropropane	89		81		70-130	9		30
Dibromochloromethane	89		86		70-130	3		30
1,1,2-Trichloroethane	89		86		70-130	3		30
Tetrachloroethene	102		81		70-130	23		30
Chlorobenzene	94		83		70-130	12		30
Trichlorofluoromethane	**68**	Q	**51**	Q	70-139	29		30
1,2-Dichloroethane	74		72		70-130	3		30
1,1,1-Trichloroethane	86		**69**	Q	70-130	22		30
Bromodichloromethane	83		78		70-130	6		30
trans-1,3-Dichloropropene	88		84		70-130	5		30
cis-1,3-Dichloropropene	91		84		70-130	8		30
1,1-Dichloropropene	91		71		70-130	25		30
Bromoform	82		82		70-130	0		30
1,1,2,2-Tetrachloroethane	82		81		70-130	1		30
Benzene	94		80		70-130	16		30
Toluene	97		80		70-130	19		30
Ethylbenzene	95		80		70-130	17		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG632202-1 WG632202-2								
Chloromethane	81		64		52-130	23		30
Bromomethane	76		65		57-147	16		30
Vinyl chloride	77		**57**	Q	67-130	30		30
Chloroethane	61		**48**	Q	50-151	24		30
1,1-Dichloroethene	92		71		65-135	26		30
trans-1,2-Dichloroethene	92		75		70-130	20		30
Trichloroethene	91		75		70-130	19		30
1,2-Dichlorobenzene	91		86		70-130	6		30
1,3-Dichlorobenzene	94		86		70-130	9		30
1,4-Dichlorobenzene	92		85		70-130	8		30
Methyl tert butyl ether	83		82		66-130	1		30
p/m-Xylene	98		83		70-130	17		30
o-Xylene	95		83		70-130	13		30
cis-1,2-Dichloroethene	92		81		70-130	13		30
Dibromomethane	86		83		70-130	4		30
Styrene	92		83		70-130	10		30
Dichlorodifluoromethane	74		54		30-146	**31**	Q	30
Acetone	120		120		54-140	0		30
Carbon disulfide	90		69		59-130	26		30
2-Butanone	100		102		70-130	2		30
Vinyl acetate	85		82		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG632202-1 WG632202-2								
4-Methyl-2-pentanone	84		82		70-130	2		30
1,2,3-Trichloropropane	80		79		68-130	1		30
2-Hexanone	82		84		70-130	2		30
Bromochloromethane	94		89		70-130	5		30
2,2-Dichloropropane	91		72		70-130	23		30
1,2-Dibromoethane	88		85		70-130	3		30
1,3-Dichloropropane	90		87		69-130	3		30
1,1,1,2-Tetrachloroethane	89		81		70-130	9		30
Bromobenzene	91		85		70-130	7		30
n-Butylbenzene	91		75		70-130	19		30
sec-Butylbenzene	95		78		70-130	20		30
tert-Butylbenzene	95		79		70-130	18		30
o-Chlorotoluene	92		81		70-130	13		30
p-Chlorotoluene	92		81		70-130	13		30
1,2-Dibromo-3-chloropropane	72		90		68-130	22		30
Hexachlorobutadiene	99		79		67-130	22		30
Isopropylbenzene	95		79		70-130	18		30
p-Isopropyltoluene	97		81		70-130	18		30
Naphthalene	87		85		70-130	2		30
Acrylonitrile	88		86		70-130	2		30
n-Propylbenzene	91		76		70-130	18		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316298

Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG632202-1 WG632202-2								
1,2,3-Trichlorobenzene	91		86		70-130	6		30
1,2,4-Trichlorobenzene	94		86		70-130	9		30
1,3,5-Trimethylbenzene	95		81		70-130	16		30
1,2,4-Trimethylbenzene	92		81		70-130	13		30
1,4-Dioxane	90		95		65-136	5		30
1,4-Diethylbenzene	94		80		70-130	16		30
4-Ethyltoluene	93		80		70-130	15		30
1,2,4,5-Tetramethylbenzene	91		82		70-130	10		30
Ethyl ether	**66**	Q	**65**	Q	67-130	2		30
trans-1,4-Dichloro-2-butene	70		72		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	81		82		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	94		94		70-130
Dibromofluoromethane	94		95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316298

Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG632202-4 WG632202-5								
Methylene chloride	100		95		70-130	5		30
1,1-Dichloroethane	97		92		70-130	5		30
Chloroform	98		92		70-130	6		30
Carbon tetrachloride	104		98		70-130	6		30
1,2-Dichloropropane	96		92		70-130	4		30
Dibromochloromethane	105		100		70-130	5		30
1,1,2-Trichloroethane	105		99		70-130	6		30
Tetrachloroethene	114		106		70-130	7		30
Chlorobenzene	105		100		70-130	5		30
Trichlorofluoromethane	93		88		70-139	6		30
1,2-Dichloroethane	95		90		70-130	5		30
1,1,1-Trichloroethane	101		94		70-130	7		30
Bromodichloromethane	95		90		70-130	5		30
trans-1,3-Dichloropropene	101		98		70-130	3		30
cis-1,3-Dichloropropene	94		89		70-130	5		30
1,1-Dichloropropene	100		94		70-130	6		30
Bromoform	105		102		70-130	3		30
1,1,2,2-Tetrachloroethane	104		99		70-130	5		30
Benzene	99		92		70-130	7		30
Toluene	118		102		70-130	15		30
Ethylbenzene	107		101		70-130	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG632202-4 WG632202-5								
Chloromethane	109		90		52-130	19		30
Bromomethane	101		93		57-147	8		30
Vinyl chloride	92		86		67-130	7		30
Chloroethane	100		90		50-151	11		30
1,1-Dichloroethene	100		94		65-135	6		30
trans-1,2-Dichloroethene	99		94		70-130	5		30
Trichloroethene	100		94		70-130	6		30
1,2-Dichlorobenzene	108		104		70-130	4		30
1,3-Dichlorobenzene	110		105		70-130	5		30
1,4-Dichlorobenzene	109		105		70-130	4		30
Methyl tert butyl ether	91		86		66-130	6		30
p/m-Xylene	108		102		70-130	6		30
o-Xylene	107		101		70-130	6		30
cis-1,2-Dichloroethene	96		92		70-130	4		30
Dibromomethane	94		90		70-130	4		30
Styrene	106		101		70-130	5		30
Dichlorodifluoromethane	82		78		30-146	5		30
Acetone	91		57		54-140	**46**	Q	30
Carbon disulfide	100		90		59-130	11		30
2-Butanone	90		74		70-130	20		30
Vinyl acetate	91		88		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316298

Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG632202-4 WG632202-5								
4-Methyl-2-pentanone	89		84		70-130	6		30
1,2,3-Trichloropropane	102		99		68-130	3		30
2-Hexanone	85		78		70-130	9		30
Bromochloromethane	98		92		70-130	6		30
2,2-Dichloropropane	101		95		70-130	6		30
1,2-Dibromoethane	103		99		70-130	4		30
1,3-Dichloropropane	101		98		69-130	3		30
1,1,1,2-Tetrachloroethane	105		99		70-130	6		30
Bromobenzene	107		102		70-130	5		30
n-Butylbenzene	114		108		70-130	5		30
sec-Butylbenzene	112		106		70-130	6		30
tert-Butylbenzene	111		106		70-130	5		30
o-Chlorotoluene	111		106		70-130	5		30
p-Chlorotoluene	108		102		70-130	6		30
1,2-Dibromo-3-chloropropane	100		96		68-130	4		30
Hexachlorobutadiene	111		106		67-130	5		30
Isopropylbenzene	109		103		70-130	6		30
p-Isopropyltoluene	112		107		70-130	5		30
Naphthalene	102		100		70-130	2		30
Acrylonitrile	94		88		70-130	7		30
Isopropyl Ether	92		88		66-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG632202-4 WG632202-5								
tert-Butyl Alcohol	97		87		70-130	11		30
n-Propylbenzene	110		104		70-130	6		30
1,2,3-Trichlorobenzene	107		104		70-130	3		30
1,2,4-Trichlorobenzene	109		105		70-130	4		30
1,3,5-Trimethylbenzene	111		104		70-130	7		30
1,2,4-Trimethylbenzene	111		105		70-130	6		30
Methyl Acetate	90		85		51-146	6		30
Ethyl Acetate	102		82		70-130	22		30
Acrolein	110		89		70-130	21		30
Cyclohexane	96		85		59-142	12		30
1,4-Dioxane	95		94		65-136	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	91		86		50-139	6		30
1,4-Diethylbenzene	112		107		70-130	5		30
4-Ethyltoluene	110		104		70-130	6		30
1,2,4,5-Tetramethylbenzene	110		105		70-130	5		30
Tetrahydrofuran	93		86		66-130	8		30
Ethyl ether	85		80		67-130	6		30
trans-1,4-Dichloro-2-butene	105		100		70-130	5		30
Methyl cyclohexane	95		85		70-130	11		30
Ethyl-Tert-Butyl-Ether	92		88		70-130	4		30
Tertiary-Amyl Methyl Ether	93		89		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316298

Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG632202-4 WG632202-5								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		98		70-130
Toluene-d8	107		107		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	99		100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316298

Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG632304-1 WG632304-2								
Methylene chloride	100		95		70-130	5		30
1,1-Dichloroethane	97		92		70-130	5		30
Chloroform	98		92		70-130	6		30
Carbon tetrachloride	104		98		70-130	6		30
1,2-Dichloropropane	96		92		70-130	4		30
Dibromochloromethane	105		100		70-130	5		30
1,1,2-Trichloroethane	105		99		70-130	6		30
Tetrachloroethene	114		106		70-130	7		30
Chlorobenzene	105		100		70-130	5		30
Trichlorofluoromethane	93		88		70-139	6		30
1,2-Dichloroethane	95		90		70-130	5		30
1,1,1-Trichloroethane	101		94		70-130	7		30
Bromodichloromethane	95		90		70-130	5		30
trans-1,3-Dichloropropene	101		98		70-130	3		30
cis-1,3-Dichloropropene	94		89		70-130	5		30
1,1-Dichloropropene	100		94		70-130	6		30
Bromoform	105		102		70-130	3		30
1,1,2,2-Tetrachloroethane	104		99		70-130	5		30
Benzene	99		92		70-130	7		30
Toluene	118		102		70-130	15		30
Ethylbenzene	107		101		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316298

Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG632304-1 WG632304-2								
Chloromethane	109		90		52-130	19		30
Bromomethane	101		93		57-147	8		30
Vinyl chloride	92		86		67-130	7		30
Chloroethane	100		90		50-151	11		30
1,1-Dichloroethene	100		94		65-135	6		30
trans-1,2-Dichloroethene	99		94		70-130	5		30
Trichloroethene	100		94		70-130	6		30
1,2-Dichlorobenzene	108		104		70-130	4		30
1,3-Dichlorobenzene	110		105		70-130	5		30
1,4-Dichlorobenzene	109		105		70-130	4		30
Methyl tert butyl ether	91		86		66-130	6		30
p/m-Xylene	108		102		70-130	6		30
o-Xylene	107		101		70-130	6		30
cis-1,2-Dichloroethene	96		92		70-130	4		30
Dibromomethane	94		90		70-130	4		30
Styrene	106		101		70-130	5		30
Dichlorodifluoromethane	82		78		30-146	5		30
Acetone	91		57		54-140	**46**	Q	30
Carbon disulfide	100		90		59-130	11		30
2-Butanone	90		74		70-130	20		30
Vinyl acetate	91		88		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316298

Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG632304-1 WG632304-2								
4-Methyl-2-pentanone	89		84		70-130	6		30
1,2,3-Trichloropropane	102		99		68-130	3		30
2-Hexanone	85		78		70-130	9		30
Bromochloromethane	98		92		70-130	6		30
2,2-Dichloropropane	101		95		70-130	6		30
1,2-Dibromoethane	103		99		70-130	4		30
1,3-Dichloropropane	101		98		69-130	3		30
1,1,1,2-Tetrachloroethane	105		99		70-130	6		30
Bromobenzene	107		102		70-130	5		30
n-Butylbenzene	114		108		70-130	5		30
sec-Butylbenzene	112		106		70-130	6		30
tert-Butylbenzene	111		106		70-130	5		30
o-Chlorotoluene	111		106		70-130	5		30
p-Chlorotoluene	108		102		70-130	6		30
1,2-Dibromo-3-chloropropane	100		96		68-130	4		30
Hexachlorobutadiene	111		106		67-130	5		30
Isopropylbenzene	109		103		70-130	6		30
p-Isopropyltoluene	112		107		70-130	5		30
Naphthalene	102		100		70-130	2		30
Acrylonitrile	94		88		70-130	7		30
Isopropyl Ether	92		88		66-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG632304-1 WG632304-2								
tert-Butyl Alcohol	97		87		70-130	11		30
n-Propylbenzene	110		104		70-130	6		30
1,2,3-Trichlorobenzene	107		104		70-130	3		30
1,2,4-Trichlorobenzene	109		105		70-130	4		30
1,3,5-Trimethylbenzene	111		104		70-130	7		30
1,2,4-Trimethylbenzene	111		105		70-130	6		30
Methyl Acetate	90		85		51-146	6		30
Ethyl Acetate	102		82		70-130	22		30
Acrolein	110		89		70-130	21		30
Cyclohexane	96		85		59-142	12		30
1,4-Dioxane	95		94		65-136	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	91		86		50-139	6		30
1,4-Diethylbenzene	112		107		70-130	5		30
4-Ethyltoluene	110		104		70-130	6		30
1,2,4,5-Tetramethylbenzene	110		105		70-130	5		30
Tetrahydrofuran	93		86		66-130	8		30
Ethyl ether	85		80		67-130	6		30
trans-1,4-Dichloro-2-butene	105		100		70-130	5		30
Methyl cyclohexane	95		85		70-130	11		30
Ethyl-Tert-Butyl-Ether	92		88		70-130	4		30
Tertiary-Amyl Methyl Ether	93		89		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316298

Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG632304-1 WG632304-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		98		70-130
Toluene-d8	107		107		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	99		100		70-130

SEMIVOLATILES

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID:	L1316298-01	Date Collected:	08/21/13 09:40
Client ID:	SB-6 (7-9)	Date Received:	08/21/13
Sample Location:	475 BAY ST, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	08/23/13 00:45
Analytical Date:	08/30/13 04:47		
Analyst:	RC		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	61.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	52.	1
2-Chloronaphthalene	ND		ug/kg	190	61.	1
1,2-Dichlorobenzene	ND		ug/kg	190	61.	1
1,3-Dichlorobenzene	ND		ug/kg	190	59.	1
1,4-Dichlorobenzene	ND		ug/kg	190	57.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	40.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	ND		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	57.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	43.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	66.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	57.	1
Hexachlorobutadiene	ND		ug/kg	190	53.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	62.	1
Nitrobenzene	ND		ug/kg	170	44.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	39.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	49.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	46.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1
Benzo(a)anthracene	ND		ug/kg	110	37.	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-01 Date Collected: 08/21/13 09:40

Client ID: SB-6 (7-9) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	38.	1
Benzo(k)fluoranthene	ND		ug/kg	110	36.	1
Chrysene	ND		ug/kg	110	37.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	ND		ug/kg	110	31.	1
Benzo(ghi)perylene	ND		ug/kg	150	39.	1
Fluorene	ND		ug/kg	190	54.	1
Phenanthrene	ND		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	42.	1
Pyrene	ND		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	430	62.	1
4-Chloroaniline	ND		ug/kg	190	49.	1
2-Nitroaniline	ND		ug/kg	190	53.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	50.	1
Dibenzofuran	ND		ug/kg	190	62.	1
2-Methylnaphthalene	ND		ug/kg	220	60.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	58.	1
Acetophenone	ND		ug/kg	190	58.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
P-Chloro-M-Cresol	ND		ug/kg	190	54.	1
2-Chlorophenol	ND		ug/kg	190	56.	1
2,4-Dichlorophenol	ND		ug/kg	170	61.	1
2,4-Dimethylphenol	ND		ug/kg	190	56.	1
2-Nitrophenol	ND		ug/kg	400	58.	1
4-Nitrophenol	ND		ug/kg	260	61.	1
2,4-Dinitrophenol	ND		ug/kg	900	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	68.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	190	55.	1
2-Methylphenol	ND		ug/kg	190	60.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	61.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	61.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	40.	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-01 Date Collected: 08/21/13 09:40

Client ID: SB-6 (7-9) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, 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	87		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	96		0-136
4-Terphenyl-d14	93		18-120

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID:	L1316298-02	Date Collected:	08/21/13 09:45
Client ID:	SB-6 (18-20)	Date Received:	08/21/13
Sample Location:	475 BAY ST, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	08/23/13 00:45
Analytical Date:	08/30/13 05:15		
Analyst:	RC		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	38.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	61.	1
Hexachlorobenzene	ND		ug/kg	110	35.	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	48.	1
Fluoranthene	ND		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	56.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	43.	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	ND		ug/kg	180	62.	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	49.	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	46.	1
Diethyl phthalate	ND		ug/kg	180	39.	1
Dimethyl phthalate	ND		ug/kg	180	47.	1
Benzo(a)anthracene	ND		ug/kg	110	36.	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-02 Date Collected: 08/21/13 09:45

Client ID: SB-6 (18-20) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	38.	1
Benzo(k)fluoranthene	ND		ug/kg	110	35.	1
Chrysene	ND		ug/kg	110	36.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	ND		ug/kg	110	31.	1
Benzo(ghi)perylene	ND		ug/kg	150	39.	1
Fluorene	ND		ug/kg	180	53.	1
Phenanthrene	ND		ug/kg	110	36.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	41.	1
Pyrene	ND		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	ND		ug/kg	180	62.	1
2-Methylnaphthalene	ND		ug/kg	220	59.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	58.	1
Acetophenone	ND		ug/kg	180	58.	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	ND		ug/kg	180	40.	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-02 Date Collected: 08/21/13 09:45

Client ID: SB-6 (18-20) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, 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	62		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	83		0-136
4-Terphenyl-d14	66		18-120

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID:	L1316298-03	Date Collected:	08/21/13 09:20
Client ID:	SB-7 (6-8)	Date Received:	08/21/13
Sample Location:	475 BAY ST, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	08/23/13 00:45
Analytical Date:	08/30/13 05:42		
Analyst:	RC		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	38.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	60.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	52.	1
2-Chloronaphthalene	ND		ug/kg	180	60.	1
1,2-Dichlorobenzene	ND		ug/kg	180	60.	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	51	J	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	33.	1
Isophorone	ND		ug/kg	160	49.	1
Naphthalene	ND		ug/kg	180	61.	1
Nitrobenzene	ND		ug/kg	160	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
Benzo(a)anthracene	ND		ug/kg	110	36.	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-03 Date Collected: 08/21/13 09:20

Client ID: SB-7 (6-8) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	37.	1
Benzo(k)fluoranthene	ND		ug/kg	110	35.	1
Chrysene	ND		ug/kg	110	36.	1
Acenaphthylene	ND		ug/kg	150	34.	1
Anthracene	ND		ug/kg	110	31.	1
Benzo(ghi)perylene	ND		ug/kg	150	38.	1
Fluorene	ND		ug/kg	180	53.	1
Phenanthrene	ND		ug/kg	110	36.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	41.	1
Pyrene	45	J	ug/kg	110	36.	1
Biphenyl	ND		ug/kg	420	61.	1
4-Chloroaniline	ND		ug/kg	180	48.	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	ND		ug/kg	180	61.	1
2-Methylnaphthalene	ND		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	53.	1
2-Chlorophenol	ND		ug/kg	180	56.	1
2,4-Dichlorophenol	ND		ug/kg	160	60.	1
2,4-Dimethylphenol	ND		ug/kg	180	55.	1
2-Nitrophenol	ND		ug/kg	400	57.	1
4-Nitrophenol	ND		ug/kg	260	60.	1
2,4-Dinitrophenol	ND		ug/kg	880	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	67.	1
Pentachlorophenol	ND		ug/kg	150	39.	1
Phenol	ND		ug/kg	180	54.	1
2-Methylphenol	ND		ug/kg	180	59.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	60.	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	ND		ug/kg	180	40.	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-03 Date Collected: 08/21/13 09:20

Client ID: SB-7 (6-8) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, 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	87		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	89		0-136
4-Terphenyl-d14	63		18-120

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID:	L1316298-04	Date Collected:	08/21/13 09:15
Client ID:	SB-7 (18-20)	Date Received:	08/21/13
Sample Location:	475 BAY ST, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	08/23/13 00:45
Analytical Date:	08/30/13 06:09		
Analyst:	RC		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	38.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	61.	1
Hexachlorobenzene	ND		ug/kg	110	35.	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	48.	1
Fluoranthene	49	J	ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	56.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	43.	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	ND		ug/kg	180	62.	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	49.	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	46.	1
Diethyl phthalate	ND		ug/kg	180	39.	1
Dimethyl phthalate	ND		ug/kg	180	47.	1
Benzo(a)anthracene	ND		ug/kg	110	36.	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-04 Date Collected: 08/21/13 09:15

Client ID: SB-7 (18-20) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	38.	1
Benzo(k)fluoranthene	ND		ug/kg	110	35.	1
Chrysene	ND		ug/kg	110	36.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	ND		ug/kg	110	31.	1
Benzo(ghi)perylene	ND		ug/kg	150	39.	1
Fluorene	ND		ug/kg	180	53.	1
Phenanthrene	ND		ug/kg	110	36.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	41.	1
Pyrene	44	J	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	ND		ug/kg	180	62.	1
2-Methylnaphthalene	ND		ug/kg	220	59.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	58.	1
Acetophenone	ND		ug/kg	180	58.	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	ND		ug/kg	180	40.	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-04 Date Collected: 08/21/13 09:15

Client ID: SB-7 (18-20) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, 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	97		25-120
Phenol-d6	94		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	103		0-136
4-Terphenyl-d14	71		18-120

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID:	L1316298-05	Date Collected:	08/21/13 08:20
Client ID:	SB-8 (6-8)	Date Received:	08/21/13
Sample Location:	475 BAY ST, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	08/23/13 00:45
Analytical Date:	08/30/13 14:15		
Analyst:	RC		
Percent Solids:	78%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	43.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	68.	1
Hexachlorobenzene	ND		ug/kg	120	39.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	58.	1
2-Chloronaphthalene	ND		ug/kg	210	68.	1
1,2-Dichlorobenzene	ND		ug/kg	210	68.	1
1,3-Dichlorobenzene	ND		ug/kg	210	66.	1
1,4-Dichlorobenzene	ND		ug/kg	210	64.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	45.	1
2,6-Dinitrotoluene	ND		ug/kg	210	53.	1
Fluoranthene	380		ug/kg	120	38.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	64.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	48.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	74.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	63.	1
Hexachlorobutadiene	ND		ug/kg	210	59.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	130	1
Hexachloroethane	ND		ug/kg	170	38.	1
Isophorone	ND		ug/kg	190	56.	1
Naphthalene	ND		ug/kg	210	69.	1
Nitrobenzene	ND		ug/kg	190	50.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	170	44.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	62.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	210	55.	1
Butyl benzyl phthalate	ND		ug/kg	210	41.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	51.	1
Diethyl phthalate	ND		ug/kg	210	44.	1
Dimethyl phthalate	ND		ug/kg	210	53.	1
Benzo(a)anthracene	150		ug/kg	120	41.	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-05 Date Collected: 08/21/13 08:20

Client ID: SB-8 (6-8) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	170		ug/kg	170	51.	1
Benzo(b)fluoranthene	190		ug/kg	120	42.	1
Benzo(k)fluoranthene	84	J	ug/kg	120	40.	1
Chrysene	150		ug/kg	120	41.	1
Acenaphthylene	ND		ug/kg	170	39.	1
Anthracene	67	J	ug/kg	120	35.	1
Benzo(ghi)perylene	160	J	ug/kg	170	43.	1
Fluorene	ND		ug/kg	210	60.	1
Phenanthrene	240		ug/kg	120	41.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	40.	1
Indeno(1,2,3-cd)Pyrene	130	J	ug/kg	170	46.	1
Pyrene	330		ug/kg	120	41.	1
Biphenyl	ND		ug/kg	480	69.	1
4-Chloroaniline	ND		ug/kg	210	55.	1
2-Nitroaniline	ND		ug/kg	210	59.	1
3-Nitroaniline	ND		ug/kg	210	58.	1
4-Nitroaniline	ND		ug/kg	210	56.	1
Dibenzofuran	ND		ug/kg	210	70.	1
2-Methylnaphthalene	ND		ug/kg	250	67.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	65.	1
Acetophenone	ND		ug/kg	210	65.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
P-Chloro-M-Cresol	ND		ug/kg	210	60.	1
2-Chlorophenol	ND		ug/kg	210	63.	1
2,4-Dichlorophenol	ND		ug/kg	190	68.	1
2,4-Dimethylphenol	ND		ug/kg	210	62.	1
2-Nitrophenol	ND		ug/kg	450	65.	1
4-Nitrophenol	ND		ug/kg	290	68.	1
2,4-Dinitrophenol	ND		ug/kg	1000	280	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	76.	1
Pentachlorophenol	ND		ug/kg	170	45.	1
Phenol	ND		ug/kg	210	62.	1
2-Methylphenol	ND		ug/kg	210	67.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	68.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	68.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	ND		ug/kg	210	45.	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-05 Date Collected: 08/21/13 08:20

Client ID: SB-8 (6-8) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, 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	78		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	88		0-136
4-Terphenyl-d14	60		18-120

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID:	L1316298-06	Date Collected:	08/21/13 08:25
Client ID:	SB-8 (18-20)	Date Received:	08/21/13
Sample Location:	475 BAY ST, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	08/23/13 00:45
Analytical Date:	08/30/13 14:43		
Analyst:	RC		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	62.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	53.	1
2-Chloronaphthalene	ND		ug/kg	190	62.	1
1,2-Dichlorobenzene	ND		ug/kg	190	62.	1
1,3-Dichlorobenzene	ND		ug/kg	190	60.	1
1,4-Dichlorobenzene	ND		ug/kg	190	58.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	ND		ug/kg	110	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	58.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	44.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	67.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	57.	1
Hexachlorobutadiene	ND		ug/kg	190	53.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	63.	1
Nitrobenzene	ND		ug/kg	170	45.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	50.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	47.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1
Benzo(a)anthracene	ND		ug/kg	110	37.	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-06 Date Collected: 08/21/13 08:25

Client ID: SB-8 (18-20) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	38.	1
Benzo(k)fluoranthene	ND		ug/kg	110	36.	1
Chrysene	ND		ug/kg	110	37.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	ND		ug/kg	110	32.	1
Benzo(ghi)perylene	ND		ug/kg	150	39.	1
Fluorene	ND		ug/kg	190	54.	1
Phenanthrene	ND		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	37.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	42.	1
Pyrene	ND		ug/kg	110	37.	1
Biphenyl	ND		ug/kg	430	62.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	53.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	51.	1
Dibenzofuran	ND		ug/kg	190	63.	1
2-Methylnaphthalene	ND		ug/kg	230	60.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	59.	1
Acetophenone	ND		ug/kg	190	59.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	55.	1
2-Chlorophenol	ND		ug/kg	190	57.	1
2,4-Dichlorophenol	ND		ug/kg	170	61.	1
2,4-Dimethylphenol	ND		ug/kg	190	56.	1
2-Nitrophenol	ND		ug/kg	410	59.	1
4-Nitrophenol	ND		ug/kg	260	61.	1
2,4-Dinitrophenol	ND		ug/kg	910	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	69.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	190	56.	1
2-Methylphenol	ND		ug/kg	190	61.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	62.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	61.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	41.	1

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-06 Date Collected: 08/21/13 08:25

Client ID: SB-8 (18-20) Date Received: 08/21/13

Sample Location: 475 BAY ST, SI, 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	80		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	85		0-136
4-Terphenyl-d14	84		18-120

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/23/13 13:19
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/23/13 00:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG630982-1					
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	470	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.
Dimethyl phthalate	ND		ug/kg	160	41.
Benzo(a)anthracene	ND		ug/kg	98	32.

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/23/13 13:19
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/23/13 00:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG630982-1					
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.
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.

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/23/13 13:19
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/23/13 00:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG630982-1					
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	83		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	95		0-136
4-Terphenyl-d14	83		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316298

Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG630982-2 WG630982-3								
Acenaphthene	83		83		31-137	0		50
1,2,4-Trichlorobenzene	79		81		38-107	3		50
Hexachlorobenzene	95		96		40-140	1		50
Bis(2-chloroethyl)ether	71		69		40-140	3		50
2-Chloronaphthalene	79		82		40-140	4		50
1,2-Dichlorobenzene	78		76		40-140	3		50
1,3-Dichlorobenzene	76		73		40-140	4		50
1,4-Dichlorobenzene	76		75		28-104	1		50
3,3'-Dichlorobenzidine	68		69		40-140	1		50
2,4-Dinitrotoluene	85		87		28-89	2		50
2,6-Dinitrotoluene	83		84		40-140	1		50
Fluoranthene	87		90		40-140	3		50
4-Chlorophenyl phenyl ether	87		90		40-140	3		50
4-Bromophenyl phenyl ether	87		91		40-140	4		50
Bis(2-chloroisopropyl)ether	61		61		40-140	0		50
Bis(2-chloroethoxy)methane	71		70		40-117	1		50
Hexachlorobutadiene	78		79		40-140	1		50
Hexachlorocyclopentadiene	96		98		40-140	2		50
Hexachloroethane	70		69		40-140	1		50
Isophorone	68		69		40-140	1		50
Naphthalene	78		79		40-140	1		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG630982-2 WG630982-3								
Nitrobenzene	67		68		40-140	1		50
NitrosoDiPhenylAmine(NDPA)/DPA	85		86			1		50
n-Nitrosodi-n-propylamine	67		68		32-121	1		50
Bis(2-Ethylhexyl)phthalate	98		98		40-140	0		50
Butyl benzyl phthalate	84		87		40-140	4		50
Di-n-butylphthalate	90		93		40-140	3		50
Di-n-octylphthalate	101		104		40-140	3		50
Diethyl phthalate	86		89		40-140	3		50
Dimethyl phthalate	89		92		40-140	3		50
Benzo(a)anthracene	92		92		40-140	0		50
Benzo(a)pyrene	88		92		40-140	4		50
Benzo(b)fluoranthene	86		86		40-140	0		50
Benzo(k)fluoranthene	90		93		40-140	3		50
Chrysene	93		96		40-140	3		50
Acenaphthylene	81		85		40-140	5		50
Anthracene	91		97		40-140	6		50
Benzo(ghi)perylene	88		88		40-140	0		50
Fluorene	85		90		40-140	6		50
Phenanthrene	88		90		40-140	2		50
Dibenzo(a,h)anthracene	86		90		40-140	5		50
Indeno(1,2,3-cd)Pyrene	86		85		40-140	1		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG630982-2 WG630982-3								
Pyrene	88		90		35-142	2		50
Biphenyl	84		87			4		50
4-Chloroaniline	53		57		40-140	7		50
2-Nitroaniline	86		89		47-134	3		50
3-Nitroaniline	43		47		26-129	9		50
4-Nitroaniline	73		75		41-125	3		50
Dibenzofuran	89		88		40-140	1		50
2-Methylnaphthalene	79		82		40-140	4		50
1,2,4,5-Tetrachlorobenzene	86		87		40-117	1		50
Acetophenone	76		78		14-144	3		50
2,4,6-Trichlorophenol	88		92		30-130	4		50
P-Chloro-M-Cresol	79		83		26-103	5		50
2-Chlorophenol	79		81		25-102	3		50
2,4-Dichlorophenol	85		87		30-130	2		50
2,4-Dimethylphenol	81		81		30-130	0		50
2-Nitrophenol	79		79		30-130	0		50
4-Nitrophenol	68		71		11-114	4		50
2,4-Dinitrophenol	76		80		4-130	5		50
4,6-Dinitro-o-cresol	90		91		10-130	1		50
Pentachlorophenol	94		97		17-109	3		50
Phenol	78		78		26-90	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316298

Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG630982-2 WG630982-3								
2-Methylphenol	82		84		30-130.	2		50
3-Methylphenol/4-Methylphenol	86		85		30-130	1		50
2,4,5-Trichlorophenol	93		95		30-130	2		50
Benzoic Acid	55		59			7		50
Benzyl Alcohol	72		74		40-140	3		50
Carbazole	86		88		54-128	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	79		77		25-120
Phenol-d6	82		78		10-120
Nitrobenzene-d5	70		66		23-120
2-Fluorobiphenyl	81		80		30-120
2,4,6-Tribromophenol	109		109		0-136
4-Terphenyl-d14	87		87		18-120

PCBS

Project Name: 475 BAY STREET
Lab Number: L1316298
Project Number: Not Specified
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID:	L1316298-01	Date Collected:	08/21/13 09:40
Client ID:	SB-6 (7-9)	Date Received:	08/21/13
Sample Location:	475 BAY ST, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	08/23/13 01:52
Analytical Date:	08/23/13 18:36	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	08/23/13
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.1	7.32	1	A
Aroclor 1221	ND		ug/kg	37.1	11.2	1	A
Aroclor 1232	ND		ug/kg	37.1	7.87	1	A
Aroclor 1242	ND		ug/kg	37.1	7.03	1	A
Aroclor 1248	ND		ug/kg	37.1	4.48	1	A
Aroclor 1254	ND		ug/kg	37.1	5.84	1	A
Aroclor 1260	ND		ug/kg	37.1	6.43	1	A
Aroclor 1262	ND		ug/kg	37.1	2.74	1	A
Aroclor 1268	ND		ug/kg	37.1	5.38	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: 475 BAY STREET
Lab Number: L1316298
Project Number: Not Specified
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID:	L1316298-02	Date Collected:	08/21/13 09:45
Client ID:	SB-6 (18-20)	Date Received:	08/21/13
Sample Location:	475 BAY ST, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	08/23/13 01:52
Analytical Date:	08/23/13 18:49	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	08/23/13
Percent Solids:	88%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.6	7.22	1	A
Aroclor 1221	ND		ug/kg	36.6	11.0	1	A
Aroclor 1232	ND		ug/kg	36.6	7.77	1	A
Aroclor 1242	ND		ug/kg	36.6	6.94	1	A
Aroclor 1248	ND		ug/kg	36.6	4.42	1	A
Aroclor 1254	ND		ug/kg	36.6	5.76	1	A
Aroclor 1260	ND		ug/kg	36.6	6.35	1	A
Aroclor 1262	ND		ug/kg	36.6	2.70	1	A
Aroclor 1268	ND		ug/kg	36.6	5.30	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: 475 BAY STREET
Lab Number: L1316298
Project Number: Not Specified
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID:	L1316298-03	Date Collected:	08/21/13 09:20
Client ID:	SB-7 (6-8)	Date Received:	08/21/13
Sample Location:	475 BAY ST, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	08/23/13 01:52
Analytical Date:	08/23/13 19:02	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	08/23/13
Percent Solids:	88%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.3	7.36	1	A
Aroclor 1221	ND		ug/kg	37.3	11.2	1	A
Aroclor 1232	ND		ug/kg	37.3	7.92	1	A
Aroclor 1242	ND		ug/kg	37.3	7.08	1	A
Aroclor 1248	ND		ug/kg	37.3	4.51	1	A
Aroclor 1254	ND		ug/kg	37.3	5.88	1	A
Aroclor 1260	ND		ug/kg	37.3	6.47	1	A
Aroclor 1262	ND		ug/kg	37.3	2.76	1	A
Aroclor 1268	ND		ug/kg	37.3	5.41	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: 475 BAY STREET
Lab Number: L1316298
Project Number: Not Specified
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID:	L1316298-04	Date Collected:	08/21/13 09:15
Client ID:	SB-7 (18-20)	Date Received:	08/21/13
Sample Location:	475 BAY ST, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	08/23/13 01:52
Analytical Date:	08/23/13 19:16	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	08/23/13
Percent Solids:	88%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.2	7.35	1	A
Aroclor 1221	ND		ug/kg	37.2	11.2	1	A
Aroclor 1232	ND		ug/kg	37.2	7.91	1	A
Aroclor 1242	ND		ug/kg	37.2	7.06	1	A
Aroclor 1248	ND		ug/kg	37.2	4.50	1	A
Aroclor 1254	ND		ug/kg	37.2	5.87	1	A
Aroclor 1260	ND		ug/kg	37.2	6.46	1	A
Aroclor 1262	ND		ug/kg	37.2	2.75	1	A
Aroclor 1268	ND		ug/kg	37.2	5.40	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: 475 BAY STREET
Lab Number: L1316298
Project Number: Not Specified
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID:	L1316298-05	Date Collected:	08/21/13 08:20
Client ID:	SB-8 (6-8)	Date Received:	08/21/13
Sample Location:	475 BAY ST, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	08/23/13 01:52
Analytical Date:	08/23/13 19:29	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	08/23/13
Percent Solids:	78%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.8	8.06	1	A
Aroclor 1221	ND		ug/kg	40.8	12.3	1	A
Aroclor 1232	ND		ug/kg	40.8	8.67	1	A
Aroclor 1242	ND		ug/kg	40.8	7.75	1	A
Aroclor 1248	ND		ug/kg	40.8	4.94	1	A
Aroclor 1254	ND		ug/kg	40.8	6.44	1	A
Aroclor 1260	ND		ug/kg	40.8	7.09	1	A
Aroclor 1262	ND		ug/kg	40.8	3.02	1	A
Aroclor 1268	ND		ug/kg	40.8	5.92	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: 475 BAY STREET
Lab Number: L1316298
Project Number: Not Specified
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID:	L1316298-06	Date Collected:	08/21/13 08:25
Client ID:	SB-8 (18-20)	Date Received:	08/21/13
Sample Location:	475 BAY ST, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	08/23/13 01:52
Analytical Date:	08/23/13 19:42	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	08/23/13
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	7.15	1	A
Aroclor 1221	ND		ug/kg	36.2	10.9	1	A
Aroclor 1232	ND		ug/kg	36.2	7.69	1	A
Aroclor 1242	ND		ug/kg	36.2	6.87	1	A
Aroclor 1248	ND		ug/kg	36.2	4.38	1	A
Aroclor 1254	ND		ug/kg	36.2	5.71	1	A
Aroclor 1260	ND		ug/kg	36.2	6.29	1	A
Aroclor 1262	ND		ug/kg	36.2	2.68	1	A
Aroclor 1268	ND		ug/kg	36.2	5.25	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/23/13 21:01
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 08/23/13 01:52
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/23/13
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-06 Batch: WG630995-1						
Aroclor 1016	ND		ug/kg	31.9	6.30	A
Aroclor 1221	ND		ug/kg	31.9	9.63	A
Aroclor 1232	ND		ug/kg	31.9	6.78	A
Aroclor 1242	ND		ug/kg	31.9	6.06	A
Aroclor 1248	ND		ug/kg	31.9	3.86	A
Aroclor 1254	ND		ug/kg	31.9	5.03	A
Aroclor 1260	ND		ug/kg	31.9	5.54	A
Aroclor 1262	ND		ug/kg	31.9	2.36	A
Aroclor 1268	ND		ug/kg	31.9	4.63	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	82		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316298

Report Date: 08/30/13

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: WG630995-2 WG630995-3									
Aroclor 1016	66		75		40-140	13		50	A
Aroclor 1260	69		79		40-140	14		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		78		30-150	A
Decachlorobiphenyl	91		97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		79		30-150	B
Decachlorobiphenyl	84		89		30-150	B

PESTICIDES

Project Name: 475 BAY STREET
Lab Number: L1316298
Project Number: Not Specified
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID:	L1316298-01	Date Collected:	08/21/13 09:40
Client ID:	SB-6 (7-9)	Date Received:	08/21/13
Sample Location:	475 BAY ST, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	08/22/13 16:33
Analytical Date:	08/23/13 19:34	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/23/13
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.340	1	A
Lindane	ND		ug/kg	0.723	0.323	1	A
Alpha-BHC	ND		ug/kg	0.723	0.205	1	A
Beta-BHC	ND		ug/kg	1.73	0.658	1	A
Heptachlor	ND		ug/kg	0.867	0.389	1	A
Aldrin	ND		ug/kg	1.73	0.611	1	A
Heptachlor epoxide	ND		ug/kg	3.25	0.976	1	A
Endrin	ND		ug/kg	0.723	0.296	1	A
Endrin ketone	ND		ug/kg	1.73	0.446	1	A
Dieldrin	ND		ug/kg	1.08	0.542	1	A
4,4'-DDE	ND		ug/kg	1.73	0.401	1	A
4,4'-DDD	ND		ug/kg	1.73	0.618	1	A
4,4'-DDT	ND		ug/kg	3.25	1.39	1	A
Endosulfan I	ND		ug/kg	1.73	0.410	1	A
Endosulfan II	ND		ug/kg	1.73	0.580	1	A
Endosulfan sulfate	ND		ug/kg	0.723	0.330	1	A
Methoxychlor	ND		ug/kg	3.25	1.01	1	A
Toxaphene	ND		ug/kg	32.5	9.10	1	A
cis-Chlordane	ND		ug/kg	2.17	0.604	1	A
trans-Chlordane	ND		ug/kg	2.17	0.572	1	A
Chlordane	ND		ug/kg	14.1	5.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 475 BAY STREET
Lab Number: L1316298
Project Number: Not Specified
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID:	L1316298-02	Date Collected:	08/21/13 09:45
Client ID:	SB-6 (18-20)	Date Received:	08/21/13
Sample Location:	475 BAY ST, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	08/22/13 16:33
Analytical Date:	08/23/13 19:46	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/23/13
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.81	0.355	1	A
Lindane	ND		ug/kg	0.755	0.338	1	A
Alpha-BHC	ND		ug/kg	0.755	0.214	1	A
Beta-BHC	ND		ug/kg	1.81	0.688	1	A
Heptachlor	ND		ug/kg	0.906	0.406	1	A
Aldrin	ND		ug/kg	1.81	0.638	1	A
Heptachlor epoxide	ND		ug/kg	3.40	1.02	1	A
Endrin	ND		ug/kg	0.755	0.310	1	A
Endrin ketone	ND		ug/kg	1.81	0.467	1	A
Dieldrin	ND		ug/kg	1.13	0.567	1	A
4,4'-DDE	ND		ug/kg	1.81	0.419	1	A
4,4'-DDD	ND		ug/kg	1.81	0.647	1	A
4,4'-DDT	ND		ug/kg	3.40	1.46	1	A
Endosulfan I	ND		ug/kg	1.81	0.428	1	A
Endosulfan II	ND		ug/kg	1.81	0.606	1	A
Endosulfan sulfate	ND		ug/kg	0.755	0.345	1	A
Methoxychlor	ND		ug/kg	3.40	1.06	1	A
Toxaphene	ND		ug/kg	34.0	9.52	1	A
cis-Chlordane	ND		ug/kg	2.27	0.632	1	A
trans-Chlordane	ND		ug/kg	2.27	0.598	1	A
Chlordane	ND		ug/kg	14.7	6.01	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	112		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: 475 BAY STREET
Lab Number: L1316298
Project Number: Not Specified
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID:	L1316298-03	Date Collected:	08/21/13 09:20
Client ID:	SB-7 (6-8)	Date Received:	08/21/13
Sample Location:	475 BAY ST, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	08/22/13 16:33
Analytical Date:	08/23/13 19:59	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/23/13
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.74	0.341	1	A
Lindane	ND		ug/kg	0.725	0.324	1	A
Alpha-BHC	ND		ug/kg	0.725	0.206	1	A
Beta-BHC	ND		ug/kg	1.74	0.659	1	A
Heptachlor	ND		ug/kg	0.870	0.390	1	A
Aldrin	ND		ug/kg	1.74	0.612	1	A
Heptachlor epoxide	ND		ug/kg	3.26	0.978	1	A
Endrin	ND		ug/kg	0.725	0.297	1	A
Endrin ketone	ND		ug/kg	1.74	0.448	1	A
Dieldrin	ND		ug/kg	1.09	0.544	1	A
4,4'-DDE	ND		ug/kg	1.74	0.402	1	A
4,4'-DDD	ND		ug/kg	1.74	0.620	1	A
4,4'-DDT	ND		ug/kg	3.26	1.40	1	A
Endosulfan I	ND		ug/kg	1.74	0.411	1	A
Endosulfan II	ND		ug/kg	1.74	0.581	1	A
Endosulfan sulfate	ND		ug/kg	0.725	0.331	1	A
Methoxychlor	ND		ug/kg	3.26	1.01	1	A
Toxaphene	ND		ug/kg	32.6	9.13	1	A
cis-Chlordane	ND		ug/kg	2.17	0.606	1	A
trans-Chlordane	ND		ug/kg	2.17	0.574	1	A
Chlordane	ND		ug/kg	14.1	5.76	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	134		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: 475 BAY STREET
Lab Number: L1316298
Project Number: Not Specified
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID:	L1316298-04	Date Collected:	08/21/13 09:15
Client ID:	SB-7 (18-20)	Date Received:	08/21/13
Sample Location:	475 BAY ST, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	08/22/13 16:33
Analytical Date:	08/23/13 20:12	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/23/13
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.77	0.346	1	A
Lindane	ND		ug/kg	0.737	0.330	1	A
Alpha-BHC	ND		ug/kg	0.737	0.209	1	A
Beta-BHC	ND		ug/kg	1.77	0.671	1	A
Heptachlor	ND		ug/kg	0.885	0.397	1	A
Aldrin	ND		ug/kg	1.77	0.623	1	A
Heptachlor epoxide	ND		ug/kg	3.32	0.995	1	A
Endrin	ND		ug/kg	0.737	0.302	1	A
Endrin ketone	ND		ug/kg	1.77	0.456	1	A
Dieldrin	ND		ug/kg	1.10	0.553	1	A
4,4'-DDE	ND		ug/kg	1.77	0.409	1	A
4,4'-DDD	ND		ug/kg	1.77	0.631	1	A
4,4'-DDT	ND		ug/kg	3.32	1.42	1	A
Endosulfan I	ND		ug/kg	1.77	0.418	1	A
Endosulfan II	ND		ug/kg	1.77	0.591	1	A
Endosulfan sulfate	ND		ug/kg	0.737	0.337	1	A
Methoxychlor	ND		ug/kg	3.32	1.03	1	A
Toxaphene	ND		ug/kg	33.2	9.29	1	A
cis-Chlordane	ND		ug/kg	2.21	0.616	1	A
trans-Chlordane	ND		ug/kg	2.21	0.584	1	A
Chlordane	ND		ug/kg	14.4	5.86	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	136		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	93		30-150	B

Project Name: 475 BAY STREET
Lab Number: L1316298
Project Number: Not Specified
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID:	L1316298-05 D	Date Collected:	08/21/13 08:20
Client ID:	SB-8 (6-8)	Date Received:	08/21/13
Sample Location:	475 BAY ST, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	08/22/13 16:33
Analytical Date:	08/28/13 08:00	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/23/13
Percent Solids:	78%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	40.6	7.94	20	A
Lindane	ND		ug/kg	16.9	7.56	20	A
Alpha-BHC	ND		ug/kg	16.9	4.80	20	A
Beta-BHC	ND		ug/kg	40.6	15.4	20	A
Heptachlor	ND		ug/kg	20.3	9.09	20	A
Aldrin	ND		ug/kg	40.6	14.3	20	A
Heptachlor epoxide	ND		ug/kg	76.1	22.8	20	A
Endrin	ND		ug/kg	16.9	6.93	20	A
Endrin ketone	ND		ug/kg	40.6	10.4	20	A
Dieldrin	ND		ug/kg	25.4	12.7	20	A
4,4'-DDE	ND		ug/kg	40.6	9.38	20	A
4,4'-DDD	ND		ug/kg	40.6	14.5	20	A
4,4'-DDT	ND		ug/kg	76.1	32.6	20	A
Endosulfan I	ND		ug/kg	40.6	9.58	20	A
Endosulfan II	ND		ug/kg	40.6	13.6	20	A
Endosulfan sulfate	ND		ug/kg	16.9	7.72	20	A
Methoxychlor	ND		ug/kg	76.1	23.7	20	A
Toxaphene	ND		ug/kg	761	213.	20	A
cis-Chlordane	ND		ug/kg	50.7	14.1	20	A
trans-Chlordane	ND		ug/kg	50.7	13.4	20	A
Chlordane	ND		ug/kg	330	134.	20	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	A
Decachlorobiphenyl	**0**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	B
Decachlorobiphenyl	**0**	Q	30-150	B

Project Name: 475 BAY STREET
Lab Number: L1316298
Project Number: Not Specified
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID:	L1316298-06	Date Collected:	08/21/13 08:25
Client ID:	SB-8 (18-20)	Date Received:	08/21/13
Sample Location:	475 BAY ST, SI, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	08/22/13 16:33
Analytical Date:	08/23/13 20:37	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/23/13
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.80	0.353	1	A
Lindane	ND		ug/kg	0.752	0.336	1	A
Alpha-BHC	ND		ug/kg	0.752	0.214	1	A
Beta-BHC	ND		ug/kg	1.80	0.684	1	A
Heptachlor	ND		ug/kg	0.902	0.404	1	A
Aldrin	ND		ug/kg	1.80	0.635	1	A
Heptachlor epoxide	ND		ug/kg	3.38	1.01	1	A
Endrin	ND		ug/kg	0.752	0.308	1	A
Endrin ketone	ND		ug/kg	1.80	0.465	1	A
Dieldrin	ND		ug/kg	1.13	0.564	1	A
4,4'-DDE	ND		ug/kg	1.80	0.417	1	A
4,4'-DDD	ND		ug/kg	1.80	0.644	1	A
4,4'-DDT	ND		ug/kg	3.38	1.45	1	A
Endosulfan I	ND		ug/kg	1.80	0.426	1	A
Endosulfan II	ND		ug/kg	1.80	0.603	1	A
Endosulfan sulfate	ND		ug/kg	0.752	0.344	1	A
Methoxychlor	ND		ug/kg	3.38	1.05	1	A
Toxaphene	ND		ug/kg	33.8	9.47	1	A
cis-Chlordane	ND		ug/kg	2.26	0.628	1	A
trans-Chlordane	ND		ug/kg	2.26	0.595	1	A
Chlordane	ND		ug/kg	14.6	5.98	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	123		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	88		30-150	B

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/23/13 17:13
Analyst: SH

Extraction Method: EPA 3546
Extraction Date: 08/22/13 16:33
Cleanup Method1: EPA 3620B
Cleanup Date1: 08/23/13

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-06 Batch: WG630920-1						
Delta-BHC	ND		ug/kg	1.58	0.309	A
Lindane	ND		ug/kg	0.656	0.293	A
Alpha-BHC	ND		ug/kg	0.656	0.186	A
Beta-BHC	ND		ug/kg	1.58	0.598	A
Heptachlor	ND		ug/kg	0.788	0.353	A
Aldrin	ND		ug/kg	1.58	0.555	A
Heptachlor epoxide	ND		ug/kg	2.95	0.886	A
Endrin	ND		ug/kg	0.656	0.269	A
Endrin ketone	ND		ug/kg	1.58	0.406	A
Dieldrin	ND		ug/kg	0.985	0.492	A
4,4'-DDE	ND		ug/kg	1.58	0.364	A
4,4'-DDD	ND		ug/kg	1.58	0.562	A
4,4'-DDT	ND		ug/kg	2.95	1.27	A
Endosulfan I	ND		ug/kg	1.58	0.372	A
Endosulfan II	ND		ug/kg	1.58	0.526	A
Endosulfan sulfate	ND		ug/kg	0.656	0.300	A
Methoxychlor	ND		ug/kg	2.95	0.919	A
Toxaphene	ND		ug/kg	29.5	8.27	A
cis-Chlordane	ND		ug/kg	1.97	0.549	A
trans-Chlordane	ND		ug/kg	1.97	0.520	A
Chlordane	ND		ug/kg	12.8	5.22	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	115		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	99		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

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: WG630920-2 WG630920-3									
Delta-BHC	71		84		30-150	17		30	A
Lindane	76		90		30-150	17		30	A
Alpha-BHC	79		94		30-150	17		30	A
Beta-BHC	76		89		30-150	16		30	A
Heptachlor	96		117		30-150	20		30	A
Aldrin	88		104		30-150	17		30	A
Heptachlor epoxide	99		120		30-150	19		30	A
Endrin	99		120		30-150	19		30	A
Endrin ketone	78		94		30-150	19		30	A
Dieldrin	90		109		30-150	19		30	A
4,4'-DDE	84		102		30-150	19		30	A
4,4'-DDD	92		111		30-150	19		30	A
4,4'-DDT	85		104		30-150	20		30	A
Endosulfan I	89		107		30-150	18		30	A
Endosulfan II	91		108		30-150	17		30	A
Endosulfan sulfate	74		88		30-150	17		30	A
Methoxychlor	88		109		30-150	21		30	A
cis-Chlordane	87		104		30-150	18		30	A
trans-Chlordane	86		102		30-150	17		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316298

Report Date: 08/30/13

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: WG630920-2 WG630920-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		79		30-150	A
Decachlorobiphenyl	124		139		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		68		30-150	B
Decachlorobiphenyl	104		117		30-150	B

METALS

Project Name: 475 BAY STREET
Project Number: Not Specified
Lab Number: L1316298
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-01
Client ID: SB-6 (7-9)
Sample Location: 475 BAY ST, SI, NY
Matrix: Soil
Percent Solids: 87%

Date Collected: 08/21/13 09:40
Date Received: 08/21/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5500		mg/kg	8.7	1.7	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG
Antimony, Total	ND		mg/kg	4.4	0.70	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG
Arsenic, Total	2.6		mg/kg	0.87	0.17	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG
Barium, Total	43		mg/kg	0.87	0.26	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG
Beryllium, Total	0.36	J	mg/kg	0.44	0.09	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG
Cadmium, Total	0.41	J	mg/kg	0.87	0.06	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG
Calcium, Total	1300		mg/kg	8.7	2.6	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG
Chromium, Total	21		mg/kg	0.87	0.17	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG
Cobalt, Total	12		mg/kg	1.7	0.44	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG
Copper, Total	32		mg/kg	0.87	0.17	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG
Iron, Total	14000		mg/kg	4.4	1.7	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG
Lead, Total	12		mg/kg	4.4	0.17	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG
Magnesium, Total	5500		mg/kg	8.7	0.87	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG
Manganese, Total	230		mg/kg	0.87	0.17	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/23/13 08:26	08/23/13 13:09	EPA 7471B	1,7471B	MC
Nickel, Total	120		mg/kg	2.2	0.35	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG
Potassium, Total	1300		mg/kg	220	35.	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	1.7	0.26	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.87	0.17	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG
Sodium, Total	110	J	mg/kg	170	26.	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.7	0.35	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG
Vanadium, Total	24		mg/kg	0.87	0.09	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG
Zinc, Total	32		mg/kg	4.4	0.61	2	08/23/13 14:10	08/27/13 10:12	EPA 3050B	1,6010C	MG

Project Name: 475 BAY STREET
Project Number: Not Specified
Lab Number: L1316298
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-02
Client ID: SB-6 (18-20)
Sample Location: 475 BAY ST, SI, NY
Matrix: Soil
Percent Solids: 88%

Date Collected: 08/21/13 09:45
Date Received: 08/21/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	3700		mg/kg	8.9	1.8	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG
Antimony, Total	ND		mg/kg	4.4	0.71	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG
Arsenic, Total	1.3		mg/kg	0.89	0.18	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG
Barium, Total	28		mg/kg	0.89	0.27	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG
Beryllium, Total	0.24	J	mg/kg	0.44	0.09	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG
Cadmium, Total	0.28	J	mg/kg	0.89	0.06	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG
Calcium, Total	680		mg/kg	8.9	2.7	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG
Chromium, Total	13		mg/kg	0.89	0.18	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG
Cobalt, Total	6.2		mg/kg	1.8	0.44	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG
Copper, Total	23		mg/kg	0.89	0.18	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG
Iron, Total	9800		mg/kg	4.4	1.8	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG
Lead, Total	5.7		mg/kg	4.4	0.18	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG
Magnesium, Total	2800		mg/kg	8.9	0.89	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG
Manganese, Total	200		mg/kg	0.89	0.18	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG
Mercury, Total	ND		mg/kg	0.07	0.02	1	08/23/13 08:26	08/23/13 13:11	EPA 7471B	1,7471B	MC
Nickel, Total	69		mg/kg	2.2	0.36	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG
Potassium, Total	520		mg/kg	220	36.	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	1.8	0.27	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.89	0.18	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG
Sodium, Total	57	J	mg/kg	180	27.	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.36	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG
Vanadium, Total	16		mg/kg	0.89	0.09	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG
Zinc, Total	19		mg/kg	4.4	0.62	2	08/23/13 14:10	08/27/13 10:48	EPA 3050B	1,6010C	MG

Project Name: 475 BAY STREET
Project Number: Not Specified
Lab Number: L1316298
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-03
Client ID: SB-7 (6-8)
Sample Location: 475 BAY ST, SI, NY
Matrix: Soil
Percent Solids: 88%

Date Collected: 08/21/13 09:20
Date Received: 08/21/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	4200		mg/kg	8.9	1.8	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG
Antimony, Total	3.4	J	mg/kg	4.4	0.71	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG
Arsenic, Total	2.6		mg/kg	0.89	0.18	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG
Barium, Total	41		mg/kg	0.89	0.27	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG
Beryllium, Total	0.29	J	mg/kg	0.44	0.09	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG
Cadmium, Total	0.53	J	mg/kg	0.89	0.06	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG
Calcium, Total	3200		mg/kg	8.9	2.7	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG
Chromium, Total	22		mg/kg	0.89	0.18	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG
Cobalt, Total	17		mg/kg	1.8	0.44	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG
Copper, Total	42		mg/kg	0.89	0.18	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG
Iron, Total	17000		mg/kg	4.4	1.8	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG
Lead, Total	41		mg/kg	4.4	0.18	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG
Magnesium, Total	23000		mg/kg	8.9	0.89	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG
Manganese, Total	360		mg/kg	0.89	0.18	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG
Mercury, Total	ND		mg/kg	0.09	0.02	1	08/23/13 08:26	08/23/13 13:17	EPA 7471B	1,7471B	MC
Nickel, Total	360		mg/kg	2.2	0.36	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG
Potassium, Total	1000		mg/kg	220	36.	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	1.8	0.27	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.89	0.18	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG
Sodium, Total	100	J	mg/kg	180	27.	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.36	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG
Vanadium, Total	20		mg/kg	0.89	0.09	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG
Zinc, Total	48		mg/kg	4.4	0.62	2	08/23/13 14:10	08/27/13 10:51	EPA 3050B	1,6010C	MG

Project Name: 475 BAY STREET
Project Number: Not Specified
Lab Number: L1316298
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-04
Client ID: SB-7 (18-20)
Sample Location: 475 BAY ST, SI, NY
Matrix: Soil
Percent Solids: 88%

Date Collected: 08/21/13 09:15
Date Received: 08/21/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	2800		mg/kg	8.8	1.8	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG
Antimony, Total	ND		mg/kg	4.4	0.70	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG
Arsenic, Total	1.4		mg/kg	0.88	0.18	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG
Barium, Total	22		mg/kg	0.88	0.26	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG
Beryllium, Total	0.23	J	mg/kg	0.44	0.09	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG
Cadmium, Total	0.26	J	mg/kg	0.88	0.06	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG
Calcium, Total	840		mg/kg	8.8	2.6	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG
Chromium, Total	16		mg/kg	0.88	0.18	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG
Cobalt, Total	7.1		mg/kg	1.8	0.44	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG
Copper, Total	19		mg/kg	0.88	0.18	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG
Iron, Total	9800		mg/kg	4.4	1.8	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG
Lead, Total	6.3		mg/kg	4.4	0.18	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG
Magnesium, Total	4400		mg/kg	8.8	0.88	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG
Manganese, Total	380		mg/kg	0.88	0.18	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/23/13 08:26	08/23/13 13:18	EPA 7471B	1,7471B	MC
Nickel, Total	110		mg/kg	2.2	0.35	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG
Potassium, Total	440		mg/kg	220	35.	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	1.8	0.26	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.88	0.18	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG
Sodium, Total	100	J	mg/kg	180	26.	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.35	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG
Vanadium, Total	14		mg/kg	0.88	0.09	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG
Zinc, Total	17		mg/kg	4.4	0.61	2	08/23/13 14:10	08/27/13 10:55	EPA 3050B	1,6010C	MG

Project Name: 475 BAY STREET
Lab Number: L1316298
Project Number: Not Specified
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-05
Client ID: SB-8 (6-8)
Sample Location: 475 BAY ST, SI, NY
Matrix: Soil
Percent Solids: 78%

Date Collected: 08/21/13 08:20
Date Received: 08/21/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5600		mg/kg	10	2.0	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG
Antimony, Total	ND		mg/kg	5.0	0.80	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG
Arsenic, Total	5.9		mg/kg	1.0	0.20	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG
Barium, Total	160		mg/kg	1.0	0.30	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG
Beryllium, Total	0.35	J	mg/kg	0.50	0.10	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG
Cadmium, Total	0.76	J	mg/kg	1.0	0.07	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG
Calcium, Total	2300		mg/kg	10	3.0	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG
Chromium, Total	30		mg/kg	1.0	0.20	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG
Cobalt, Total	23		mg/kg	2.0	0.50	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG
Copper, Total	55		mg/kg	1.0	0.20	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG
Iron, Total	17000		mg/kg	5.0	2.0	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG
Lead, Total	380		mg/kg	5.0	0.20	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG
Magnesium, Total	13000		mg/kg	10	1.0	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG
Manganese, Total	340		mg/kg	1.0	0.20	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG
Mercury, Total	0.19		mg/kg	0.10	0.02	1	08/23/13 08:26	08/23/13 13:20	EPA 7471B	1,7471B	MC
Nickel, Total	310		mg/kg	2.5	0.40	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG
Potassium, Total	630		mg/kg	250	40.	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG
Selenium, Total	1.0	J	mg/kg	2.0	0.30	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	1.0	0.20	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG
Sodium, Total	370		mg/kg	200	30.	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	2.0	0.40	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG
Vanadium, Total	18		mg/kg	1.0	0.10	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG
Zinc, Total	180		mg/kg	5.0	0.70	2	08/23/13 14:10	08/27/13 10:58	EPA 3050B	1,6010C	MG

Project Name: 475 BAY STREET
Project Number: Not Specified
Lab Number: L1316298
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-06
Client ID: SB-8 (18-20)
Sample Location: 475 BAY ST, SI, NY
Matrix: Soil
Percent Solids: 87%

Date Collected: 08/21/13 08:25
Date Received: 08/21/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	4800		mg/kg	9.0	1.8	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG
Antimony, Total	ND		mg/kg	4.5	0.72	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG
Arsenic, Total	1.7		mg/kg	0.90	0.18	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG
Barium, Total	41		mg/kg	0.90	0.27	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG
Beryllium, Total	0.36	J	mg/kg	0.45	0.09	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG
Cadmium, Total	0.44	J	mg/kg	0.90	0.06	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG
Calcium, Total	1500		mg/kg	9.0	2.7	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG
Chromium, Total	15		mg/kg	0.90	0.18	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG
Cobalt, Total	12		mg/kg	1.8	0.45	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG
Copper, Total	55		mg/kg	0.90	0.18	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG
Iron, Total	17000		mg/kg	4.5	1.8	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG
Lead, Total	9.0		mg/kg	4.5	0.18	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG
Magnesium, Total	3400		mg/kg	9.0	0.90	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG
Manganese, Total	310		mg/kg	0.90	0.18	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/26/13 09:15	08/26/13 11:31	EPA 7471B	1,7471B	MC
Nickel, Total	97		mg/kg	2.2	0.36	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG
Potassium, Total	580		mg/kg	220	36.	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	1.8	0.27	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.90	0.18	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG
Sodium, Total	270		mg/kg	180	27.	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.36	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG
Vanadium, Total	34		mg/kg	0.90	0.09	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG
Zinc, Total	32		mg/kg	4.5	0.63	2	08/23/13 14:10	08/27/13 11:02	EPA 3050B	1,6010C	MG

Project Name: 475 BAY STREET
Project Number: Not Specified
Lab Number: L1316298
Report Date: 08/30/13

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): 01-05 Batch: WG630742-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/23/13 08:26	08/23/13 12:12	1,7471B	MC

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): 06 Batch: WG631116-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/26/13 09:15	08/26/13 11:15	1,7471B	MC

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): 01-06 Batch: WG631173-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG
Antimony, Total	ND		mg/kg	2.0	0.32	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG
Arsenic, Total	ND		mg/kg	0.40	0.08	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG
Barium, Total	ND		mg/kg	0.40	0.12	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG
Beryllium, Total	ND		mg/kg	0.20	0.04	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.40	0.03	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG
Calcium, Total	ND		mg/kg	4.0	1.2	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG
Chromium, Total	ND		mg/kg	0.40	0.08	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG
Cobalt, Total	ND		mg/kg	0.80	0.20	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG
Copper, Total	ND		mg/kg	0.40	0.08	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG
Iron, Total	ND		mg/kg	2.0	0.80	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG
Lead, Total	ND		mg/kg	2.0	0.08	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG
Magnesium, Total	ND		mg/kg	4.0	0.40	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG
Manganese, Total	ND		mg/kg	0.40	0.08	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG
Nickel, Total	ND		mg/kg	1.0	0.16	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG
Potassium, Total	ND		mg/kg	100	16.	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG

Project Name: 475 BAY STREET **Lab Number:** L1316298

Project Number: Not Specified **Report Date:** 08/30/13

Method Blank Analysis
Batch Quality Control

Selenium, Total	ND	mg/kg	0.80	0.12	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG
Silver, Total	ND	mg/kg	0.40	0.08	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG
Sodium, Total	ND	mg/kg	80	12.	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG
Thallium, Total	ND	mg/kg	0.80	0.16	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG
Vanadium, Total	ND	mg/kg	0.40	0.04	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG
Zinc, Total	ND	mg/kg	2.0	0.28	1	08/23/13 14:10	08/27/13 10:05	1,6010C	MG

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316298

Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 Batch: WG630742-2 SRM Lot Number: 0518-10-02								
Mercury, Total	98		-		67-133	-		
Total Metals - Westborough Lab Associated sample(s): 06 Batch: WG631116-2 SRM Lot Number: 0518-10-02								
Mercury, Total	108		-		67-133	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316298

Report Date: 08/30/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG631173-2 SRM Lot Number: 0518-10-02					
Aluminum, Total	82	-	29-171	-	
Antimony, Total	117	-	4-196	-	
Arsenic, Total	104	-	81-119	-	
Barium, Total	96	-	83-118	-	
Beryllium, Total	98	-	83-117	-	
Cadmium, Total	94	-	82-117	-	
Calcium, Total	89	-	83-117	-	
Chromium, Total	97	-	80-119	-	
Cobalt, Total	98	-	83-117	-	
Copper, Total	101	-	83-117	-	
Iron, Total	94	-	51-150	-	
Lead, Total	98	-	80-120	-	
Magnesium, Total	92	-	74-126	-	
Manganese, Total	100	-	83-117	-	
Nickel, Total	99	-	82-117	-	
Potassium, Total	91	-	74-126	-	
Selenium, Total	102	-	80-120	-	
Silver, Total	102	-	66-134	-	
Sodium, Total	95	-	74-127	-	
Thallium, Total	101	-	79-120	-	
Vanadium, Total	98	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 475 BAY STREET

Project Number: Not Specified

Lab Number: L1316298

Report Date: 08/30/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG631173-2 SRM Lot Number: 0518-10-02					
Zinc, Total	94	-	82-119	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

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): 01-05 QC Batch ID: WG630742-4 QC Sample: L1316206-04 Client ID: MS Sample												
Mercury, Total	ND	0.195	0.18	92		-	-		70-130	-		35
Total Metals - Westborough Lab Associated sample(s): 06 QC Batch ID: WG631116-4 QC Sample: L1316217-01 Client ID: MS Sample												
Mercury, Total	0.02J	0.187	0.23	123		-	-		70-130	-		35

Matrix Spike Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

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: WG631173-4 QC Sample: L1316298-01 Client ID: SB-6 (7-9)										
Aluminum, Total	5500	179	5100	**0**	Q	-	-	75-125	-	35
Antimony, Total	ND	44.8	36	80		-	-	75-125	-	35
Arsenic, Total	2.6	10.8	13	97		-	-	75-125	-	35
Barium, Total	43.	179	200	88		-	-	75-125	-	35
Beryllium, Total	0.36J	4.48	4.4	98		-	-	75-125	-	35
Cadmium, Total	0.41J	4.57	4.5	98		-	-	75-125	-	35
Calcium, Total	1300	897	2000	78		-	-	75-125	-	35
Chromium, Total	21.	17.9	34	**72**	Q	-	-	75-125	-	35
Cobalt, Total	12.	44.8	48	80		-	-	75-125	-	35
Copper, Total	32.	22.4	48	**71**	Q	-	-	75-125	-	35
Iron, Total	14000	89.7	12000	**0**	Q	-	-	75-125	-	35
Lead, Total	12.	45.7	47	76		-	-	75-125	-	35
Magnesium, Total	5500	897	5400	**0**	Q	-	-	75-125	-	35
Manganese, Total	230	44.8	260	**67**	Q	-	-	75-125	-	35
Nickel, Total	120	44.8	140	**45**	Q	-	-	75-125	-	35
Potassium, Total	1300	897	1600	**33**	Q	-	-	75-125	-	35
Selenium, Total	ND	10.8	9.6	89		-	-	75-125	-	35
Silver, Total	ND	26.9	25	93		-	-	75-125	-	35
Sodium, Total	110J	897	870	97		-	-	75-125	-	35
Thallium, Total	ND	10.8	9.0	84		-	-	75-125	-	35
Vanadium, Total	24.	44.8	61	82		-	-	75-125	-	35

Matrix Spike Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

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: WG631173-4 QC Sample: L1316298-01 Client ID: SB-6 (7-9)										
Zinc, Total	32.	44.8	65	**74**	Q	-	-	75-125	-	35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG630742-3 QC Sample: L1316206-04 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		35
Total Metals - Westborough Lab Associated sample(s): 06 QC Batch ID: WG631116-3 QC Sample: L1316217-01 Client ID: DUP Sample						
Mercury, Total	0.02J	0.02J	mg/kg	NC		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG631173-3 QC Sample: L1316298-01 Client ID: SB-6 (7-9)						
Aluminum, Total	5500	4800	mg/kg	14		35
Antimony, Total	ND	ND	mg/kg	NC		35
Arsenic, Total	2.6	3.0	mg/kg	14		35
Barium, Total	43.	42	mg/kg	2		35
Beryllium, Total	0.36J	0.29J	mg/kg	NC		35
Cadmium, Total	0.41J	0.37J	mg/kg	NC		35
Calcium, Total	1300	1200	mg/kg	8		35
Chromium, Total	21.	19	mg/kg	10		35
Cobalt, Total	12.	10	mg/kg	18		35
Copper, Total	32.	28	mg/kg	13		35
Iron, Total	14000	13000	mg/kg	7		35
Lead, Total	12.	8.3	mg/kg	**36**	Q	35
Magnesium, Total	5500	5300	mg/kg	4		35
Manganese, Total	230	230	mg/kg	0		35
Nickel, Total	120	130	mg/kg	8		35
Potassium, Total	1300	960	mg/kg	30		35
Selenium, Total	ND	ND	mg/kg	NC		35
Silver, Total	ND	ND	mg/kg	NC		35
Sodium, Total	110J	150J	mg/kg	NC		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG631173-3 QC Sample: L1316298-01 Client ID: SB-6 (7-9)					
Thallium, Total	ND	ND	mg/kg	NC	35
Vanadium, Total	24.	20	mg/kg	18	35
Zinc, Total	32.	28	mg/kg	13	35

INORGANICS
&
MISCELLANEOUS

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-01
Client ID: SB-6 (7-9)
Sample Location: 475 BAY ST, SI, NY
Matrix: Soil

Date Collected: 08/21/13 09:40
Date Received: 08/21/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	08/23/13 00:14	30,2540G	RT

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-02
Client ID: SB-6 (18-20)
Sample Location: 475 BAY ST, SI, NY
Matrix: Soil

Date Collected: 08/21/13 09:45
Date Received: 08/21/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	08/23/13 00:14	30,2540G	RT

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-03
Client ID: SB-7 (6-8)
Sample Location: 475 BAY ST, SI, NY
Matrix: Soil

Date Collected: 08/21/13 09:20
Date Received: 08/21/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.0		%	0.100	NA	1	-	08/23/13 00:14	30,2540G	RT

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-04
Client ID: SB-7 (18-20)
Sample Location: 475 BAY ST, SI, NY
Matrix: Soil

Date Collected: 08/21/13 09:15
Date Received: 08/21/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	08/23/13 00:14	30,2540G	RT

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-05
Client ID: SB-8 (6-8)
Sample Location: 475 BAY ST, SI, NY
Matrix: Soil

Date Collected: 08/21/13 08:20
Date Received: 08/21/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.1		%	0.100	NA	1	-	08/23/13 00:14	30,2540G	RT

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID: L1316298-06
Client ID: SB-8 (18-20)
Sample Location: 475 BAY ST, SI, NY
Matrix: Soil

Date Collected: 08/21/13 08:25
Date Received: 08/21/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.6		%	0.100	NA	1	-	08/23/13 00:14	30,2540G	RT

Lab Duplicate Analysis
Batch Quality Control

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG630978-1 QC Sample: L1316298-01 Client ID: SB-6 (7-9)						
Solids, Total	87.2	88.2	%	1		20

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316298-01A	Vial Large unpreserved	A	N/A	4.5	Y	Absent	NYTCL-8260(14)
L1316298-01B	Amber 500ml unpreserved	A	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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),K-TI(180),NA-TI(180)
L1316298-02A	Vial Large unpreserved	A	N/A	4.5	Y	Absent	NYTCL-8260(14)
L1316298-02B	Amber 500ml unpreserved	A	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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),K-TI(180),NA-TI(180)
L1316298-03A	Vial Large unpreserved	A	N/A	4.5	Y	Absent	NYTCL-8260(14)
L1316298-03B	Amber 500ml unpreserved	A	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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),K-TI(180),NA-TI(180)
L1316298-04A	Vial Large unpreserved	A	N/A	4.5	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 475 BAY STREET
Project Number: Not Specified

Lab Number: L1316298
Report Date: 08/30/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316298-04B	Amber 500ml unpreserved	A	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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),K-TI(180),NA-TI(180)
L1316298-05A	Vial Large unpreserved	A	N/A	4.5	Y	Absent	NYTCL-8260(14)
L1316298-05B	Amber 500ml unpreserved	A	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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),K-TI(180),NA-TI(180)
L1316298-06A	Vial Large unpreserved	A	N/A	4.5	Y	Absent	NYTCL-8260(14)
L1316298-06B	Amber 500ml unpreserved	A	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),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),K-TI(180),NA-TI(180)
L1316298-07A	Vial HCl preserved	A	N/A	4.5	Y	Absent	NYTCL-8260(14)
L1316298-07B	Vial HCl preserved	A	N/A	4.5	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	475 BAY STREET	**Lab Number:**	L1316298
Project Number:	Not Specified	**Report Date:**	08/30/13

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.
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

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.
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.
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.

Report Format: DU Report with "J" Qualifiers

Project Name:	475 BAY STREET	**Lab Number:**	L1316298
Project Number:	Not Specified	**Report Date:**	08/30/13

Data Qualifiers

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:	475 BAY STREET	**Lab Number:**	L1316298
Project Number:	Not Specified	**Report Date:**	08/30/13

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.

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.

Certificate/Approval Program Summary

Last revised August 29, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

State of Illinois Certificate/Lab ID: 003155. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. Organic Parameters: EPA 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. Organic Parameters: EPA 608, 624, 625.)

Hazardous and Solid Waste (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. Organic Parameters: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: 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-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2064. ***NELAP Accredited.***
Drinking Water (Organic Parameters: **EPA 524.2:** Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene. **EPA 8015C(M):** TPH.)

Solid & Chemical Materials (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D,

9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 3015, 9010C, 9030B. Organic Parameters: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330, 8082A, EPA 3510C, 5030B, 8015C, 8011.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm

9030B, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010C, 6020A, 245.1, 7470A, 9040B, 9010B, 180.1, 300.0, 332.0, 6860, 351.1, 353.2, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500Norg-C, 4500NO3-F, 5310C, 2130B, 2320B, 2340B, 2540C, 5540C, 3005A, 3015, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A, 8082A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010C, 6020A, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9040B, 9045C, 9010C, 9012B, 9251, SM3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A/B-prep, 8082A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
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 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 8/21/13

ALPHA Job #: L1316298

Client Information

Client: AKRF, INC
Address: 440 Park Ave S. NY NY 10016
Phone: 610 405 2847
Fax:
Email: dshapiro@akrf.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 475 Bay Street
Project Location: 475 Bay St, SI, NY
Project #:
Project Manager: d. shapiro
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 8/28/13 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☑ 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	VOC	SVOC	PCB	Pesticides	TAL Metals	Sample Specific Comments	TOTAL # BOTTLES
16298 -01	SB-6 (7-9)	8/21/13	0940	S	aj	X	X	X	X	X		
-02	SB-6 (18-20)		0945	S	aj	X	X	X	X	X		
-03	SB-7 (6-8)		0920	S	aj	X	X	X	X	X		
-04	SB-7 (18-20)		0915	S	aj	X	X	X	X	X		
-05	SB-8 (6-8)		0820	S	aj	X	X	X	X	X		
-06	SB-8 (18-20)		0825	S	aj	X	X	X	X	X		
-07	TB		—	aq	—	X						

Container Type	
Preservative	

Relinquished By:	Date/Time	Received By:	Date/Time
amy jordan	8/21/13 1230		8/21/13 12:30
	8/21/13 18:35	[signature]	8/21/13 18:35
[signature]	8/21/13 23:55	[signature]	8/21/13 23:55

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.

475 Bay Street
Tax Block 488, Lot 9
STATEN ISLAND, NEW YORK

Remedial Action Plan

AKRF Project Number: 12461

Prepared for:

BFC Partners
150 Myrtle Avenue, Suite 2
Brooklyn, New York 11201

Prepared by:

AKRF Engineering, P.C.
440 Park Avenue South, 7th Floor
New York, NY 10016
212-696-0670

APRIL 2016

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FIGURES

Figure 1 – Site Location

APPENDICES

Appendix A – Construction Health and Safety Plan

1.0 INTRODUCTION

This Remedial Action Plan (RAP) was prepared for the approximately 54,000-square foot Site located at 475 Bay Street in Staten Island, New York (the Site). The Site is also identified as Block 119, Lot 143. The Site consists of a partially asphalt-paved parking lot currently used for vehicle and construction equipment storage. A Site location map is provided as Figure 1. The purpose of this RAP is to present procedures for managing soil and groundwater (if necessary) during any future subsurface disturbance in accordance with applicable federal, state, and local requirements, including guidelines for temporary on-site stockpiling and off-site transportation and disposal of soil. This RAP was prepared in response to the findings of the previous investigations summarized in Section 2.3.

All work outlined within this RAP is subject to the Construction Health and Safety Plan (CHASP) developed for the Site, provided as Appendix A.

2.0 SITE BACKGROUND

2.1 Site Characterization

The Site consists of a partially asphalt-paved parking lot currently used for vehicle and construction equipment storage. Surface topography is generally level. Based on reports compiled by the U.S. Geological Survey (Central Park Quadrangle), the Site is approximately 16 feet above mean sea level.

Soil at the Site generally consists of fill material (sand with silt, gravel, concrete, brick, and asphalt) down to approximately 10 feet below grade underlain by apparent native sand with clay, gravel, and silt. Groundwater was first encountered during AKRF's August 2013 Subsurface (Phase II) Investigation at between approximately 6 and 15 feet below grade. Groundwater is expected to flow towards the harbor, located approximately 600 feet to the east. However, groundwater flow direction can be affected by many factors including subsurface openings or obstructions such as basements, utilities, and other factors.

2.2 Proposed Project

Although there are currently no development plans for the Site, it is assumed that limited subsurface disturbance could occur (e.g., for utility repairs) prior to the more extensive disturbance that would likely be associated with redevelopment.

2.3 Previous Environmental Investigations

Phase I Environmental Site Assessment (ESA), 475 Bay Street, Staten Island, New York, ATV Enterprises, 2000

ATV Enterprises (ATV) performed a Phase I ESA of the Site in 2000. According to the report, the Site historically included a coal yard and a filling station with three gasoline underground storage tanks (USTs). Based on these findings, ATV recommended a magnetometer survey and a Subsurface (Phase II) Investigation.

Phase I Environmental Site Assessment (ESA), 475 Bay Street, Staten Island, New York, URS Corporation, April 2013

URS Corporation (URS) performed a Phase I ESA of the Site in April 2013. According to the report, a coal yard with coal pockets and a gasoline filling station with three USTs were shown on

the western portion of the Site in 1937. Nearby off-site uses included a gasoline filling station with several open- and closed-status spills, dry cleaners, and various industrial properties. URS recommended a Subsurface (Phase II) Investigation including the collection and laboratory analysis of soil and groundwater samples.

Ground Penetrating Radar (GPR) Survey, 475 Bay Street, Staten Island, New York, Hager Richter Geoscience, Inc., April 2013

Hager Richter Geoscience, Inc. (HRG) conducted a geophysical investigation across the southwestern and eastern portions of the Site in April 2013. The survey was conducted to investigate the potential presence of underground storage tanks (USTs), underground utilities, vaults, or other subsurface features. A suspected buried concrete pad, buried metal and unidentified objects, and subsurface utilities were identified during the survey.

Subsurface (Phase II) Investigation Report, 475 Bay Street, Staten Island, New York, AKRF, Inc., September 2013

AKRF, Inc. (AKRF) conducted a Subsurface (Phase II) Investigation at the Site in September 2013. The investigation included the advancement of eight soil borings with the collection and laboratory analysis of sixteen soil samples; the installation of four temporary groundwater monitoring wells with the collection and laboratory analysis of four groundwater samples; and the installation of four soil vapor points with the collection and laboratory analysis of four soil vapor samples. Fill materials (including sand with silt, gravel, asphalt, and brick) were observed to depths ranging between 5 and 10 feet below grade, underlain by apparent native material. Groundwater was first encountered at between 6 and 15 feet below grade. The identified fill materials were found to contain somewhat elevated concentrations of pesticides and metals in soil, low levels of semivolatile organic compounds (SVOCs) and metals in groundwater, and low levels of volatile organic compounds (VOCs) in soil vapor.

3.0 CONSTRUCTION MEASURES

Although anomalies consistent with a UST were not identified during the GPR survey, the reliability of geophysical investigations may vary depending on subsurface conditions. Therefore, it is possible that tanks in the anomaly areas or other areas may be encountered during subsurface disturbance. A contingency plan for removal of petroleum storage tanks is provided in Section 3.1.

Soil and fill materials containing somewhat elevated concentrations of metals and pesticides in soil, low levels of SVOCs and metals in groundwater, and low levels of VOCs in soil vapor were identified during AKRF's 2013 investigation. Section 3.2 includes measures for appropriate handling, testing, and disposal of soil including potentially contaminated soil during excavation.

Depending on the depth of the proposed disturbance, groundwater may also be encountered. To the extent that dewatering is required, NYC Department of Environmental Protection permit/approval requirements must be followed, as discussed in Section 3.6.

Following completion of subsurface work, a report should be prepared compiling any manifests/bills of lading, etc. associated with off-site disposal of material, photographs of the work in progress, and any laboratory data conducted for characterization or off-site disposal purposes.

3.1 Petroleum Tank Removal

If encountered, petroleum storage tank(s) and any appurtenances will be cleaned, removed and disposed of in accordance with accepted industry standards and applicable federal, state, and local

regulatory agency requirements. The tank and soil removal from the vicinity of the storage tank(s) will be conducted in accordance with the NYSDEC CP-51 Soil Cleanup Guidance, October 2010. Laboratory analysis of both characterization samples and of samples obtained from the excavation areas will include the CP-51 list of VOCs and SVOCs.

Any tanks encountered at the Site will be registered with NYSDEC and the New York City Fire Department, if necessary. Tank removal activities and any associated petroleum-contaminated soil removal must be documented in a Tank/Spill Closure Report, which will be submitted to NYSDEC.

Typical tank removal procedures are summarized below:

1. Open fill cap or vent pipe and measure for product. Collect a sample of the product. Tank contents will be sampled in accordance with applicable federal, state, and local requirements and tested in accordance with the requirements of the receiving facility. Proper disposal of tank contents at an approved facility will be dictated by sample results.
2. Excavate to expose the tank. Vacuum liquid tank contents and pumpable tank bottom residue.
3. Excavate around the tank with care to avoid release of tank and piping contents. Hand excavation around the tank may be necessary. The sides of all excavated areas will be properly stabilized in accordance with Occupational Health and Safety Administration (OSHA) regulations. Continuously monitor the excavated areas in the worker breathing zone for the presence of flammable, toxic, or oxygen deficient atmosphere with a photoionization detector (PID), a combustible gas indicator (CGI), and an oxygen meter.
4. Inert the tank of flammable vapors using dry ice and verify using an oxygen meter (less than seven percent). An access hole will be cut in the tank and the tank will be thoroughly cleaned of residual liquids and sludges.
5. Entry of the tank, if necessary, will be conducted in conformance with OSHA confined space requirements.
6. Remaining fuels, loose slurry, sludge materials and wastewater will be collected in Department of Transportation (DOT)-approved drums, sampled and analyzed for disposal characterization. After disposal characterization, waste material will be removed and disposed of in accordance with applicable regulations.
7. Remove the tank and all associated piping from the ground and clean the outside of the tank. The tank and piping will be rendered "not reusable," removed from the Site and disposed of according to applicable regulations with proper documentation. Remove and dispose of all concrete tank support structures or vaults as encountered.
8. Spill reporting to the NYSDEC Spill Hotline (800-457-7362) will be conducted, as necessary.
9. After tank removal, examine for evidence of petroleum releases. If there is evidence of a petroleum release, follow procedures for Soil Contamination Plan in addition to the procedures below.
10. Suspect materials will be field-screened with a PID. If soil contamination is present, excavate and remove contaminated soil from the tank areas in accordance with the stockpiling and/or direct-loading procedures presented in Sections 3.2.1 and 3.2.2. Material will be excavated until field screening with a PID yields concentrations of less than 20 parts per million (ppm) and until there are no remaining visible signs of contamination or odors. After contaminated soil removal, collect endpoint samples at each sidewall and at the bottom

of the excavation for analytical testing as specified in the NYSDEC, CP-51 Soil Cleanup Guidance, October 2010.

11. Photo-document all procedures and record all procedures in a bound field notebook.
12. Copies of all testing results, correspondence with disposal facilities concerning classification of materials, and permits/approvals will be maintained by the project manager and will be submitted to the NYSDEC in a Tank Closure Report.
13. A signed affidavit will be prepared by the licensed tank installation (removal) contractor and submitted to the New York City Fire Department (FDNY) certifying proper removal of the tank(s).

3.2 Soil Disposal

Soil disposal will be in accordance with federal, state, and local requirements, including those for hazardous waste, industrial waste, petroleum contaminated soil, construction and demolition debris, etc., as applicable. Waste characterization sampling should be conducted to characterize soil for disposal in accordance with receiving facility requirements.

If sludge, soil, or sediment known to be contaminated or showing evidence of potential contamination, such as discoloration, staining, or odors are encountered during excavation activities, the following procedures will be implemented:

1. Spill reporting to the NYSDEC Spill Hotline (800-457-7362) will be conducted, as necessary.
2. The suspect soil will be sampled for laboratory analyses. Soil samples will be analyzed at a minimum for parameters required by the intended disposal facility.
3. If the suspect soil is contaminated based on sampling results, it will be excavated and removed in accordance with the stockpiling and/or direct-loading procedures presented below. Soils intended for off-site disposal will be disposed of in accordance with applicable federal, state, and local requirements and tested in accordance with the requirements of the receiving facility. Additional sample analysis may be required by alternative disposal facilities. Additional analysis may be run on existing sample material at the laboratory as long as all holding time and preservation requirements have not been exceeded. If there are exceedances to these requirements or if additional sampling material is required by the laboratory to complete the required analysis, additional samples may be collected.
4. The excavated soil will then be disposed of in accordance with all applicable federal, state, and local regulations.
5. The excavation will continue vertically until no evidence of contamination is noted in the base of the excavation or until groundwater or bedrock is encountered. The excavation will continue horizontally until no evidence of contamination is noted in the sidewalls of the excavation. Post-excavation endpoint samples will be collected from the sides and bottom of the excavated area, as required by the NYSDEC. Analytical parameters for post excavation soil samples will be determined based on consultation with the NYSDEC. If post excavation samples exceed action levels, then additional excavation will be performed, as warranted.
6. Copies of correspondence with disposal facilities concerning classification of materials, testing results, and permits/approvals will be maintained by the project manager and will be submitted to NYSDEC in a Spill Closure Report.

When applicable, hazardous waste manifest forms and/or non-hazardous waste records will be completed as required by the appropriate regulatory agencies for verifying the material and quantity of each load in units of volume and weight.

3.2.1 Stockpiling Procedures

Any contaminated material intended for off-site disposal may be stockpiled temporarily or loaded directly onto trucks for off-site disposal, if pre-approved by the receiving facility. No petroleum-contaminated soil, hazardous waste, or deleterious materials will be re-used on-site for filling, grading, or other purposes.

Soil for disposal with known contamination or exhibiting evidence of contamination will be stockpiled on polyethylene sheeting. If the soil is expected to remain on-site overnight or longer, the stockpile will be covered with similar polyethylene sheeting and be secured with large rocks or other appropriate weights to protect against leaching or runoff of contaminants into groundwater or stormwater. The surface surrounding the stockpile will be graded to provide for positive drainage away from the pile. Stockpiles will be managed to minimize dust generation, run-off, and erosion using water, plastic covers, silt fences, and/or hay bales, as necessary.

Soil will be segregated and stockpiled based on its known or anticipated type and/or level of contamination (based on analytical data, PID readings, odor, staining, etc.). Stockpiles will be separated by a sufficient distance to ensure that mixing of dissimilar or potentially dissimilar materials does not occur. The location and classification of on-site stockpiles will be tracked with drawings and updated, if necessary, at the end of each workday according to the following categories:

- Soil intended for reuse on-site;
- Hazardous waste for off-site disposal;
- Non-petroleum contaminated non-hazardous soil for off-site disposal;
- Petroleum-contaminated soil for off-site disposal; and
- Soil pending analysis.

Copies of Site drawings will be kept in the field log book. Stockpiles intended for off-site disposal may be mixed with other compatible stockpiles on-site (compatibility will be determined by the requirements of the receiving disposal facility), but hazardous wastes will not be mixed with non-hazardous wastes.

3.2.2 Alternatives to Stockpiling

Alternative procedures to stockpiling could include, but are not limited to, agreement(s) from the intended disposal or treatment facilities to accept boring data and/or analytical data previously obtained so that materials may be directly loaded into trucks for shipment to the disposal facility.

3.3 Waste Management and Transportation

Surplus material will be properly disposed of off-site.

- Any material showing evidence of petroleum contamination from a spill (such as odors, staining, and/or elevated PID readings) will be properly disposed of or recycled off-site in accordance with applicable regulatory requirements and facility requirements.

- Material including historic fill and construction and demolition (C&D) material showing no evidence of petroleum contamination or hazardous waste may be properly disposed of, or alternatively may be reused on-site provided it is beneath the new building's foundation or the Site cap (see Section 4.1).

Transportation of all material leaving the Site for off-site disposal will be in accordance with federal, state, and local requirements (including 6 NYCRR Part 364 and U.S. DOT regulations) covering licensing of haulers and trucks, placarding, truck routes, manifesting, etc.

The schedule for truck arrival will be coordinated to meet the approved project schedule. The schedule will be compatible with the availability of equipment and personnel for material handling operations at the job Site. Trucks will be protected against contamination by properly covering and lining truck beds with compatible material (such as polyethylene) or by decontaminating them prior to any use other than hauling contaminated materials.

All vehicles leaving the Site will be inspected to ensure that soil adhering to the wheels or undercarriage is removed prior to the vehicle leaving the Site. Any situations involving material spilled in transit or mud and dust tracked off-site will be remedied. The truck access routes will be evaluated for road conditions, overhead clearance, and weight restrictions.

Contaminated materials from other projects will not be combined with material from the construction area. The transporter will not deliver waste to any facility other than the facility listed on the shipping manifest.

3.4 Dust Control

To prevent the potential migration of dust that may contain above-background levels of contaminants, the following measures will be implemented during redevelopment (smaller projects should also be conducted in a manner so as to minimize the generation and migration of dust):

- Water will be available (and used) for sprinkling/wetting to suppress dust in dry weather or as necessary.
- All haul trucks will have tarp covers.
- Stabilized construction entrances (e.g., gravel pads) and wash stations will be placed at access points to prevent tracking out of or dispersion of dust.

All work that involves soil disturbance or otherwise generates dust will be performed utilizing methods to minimize dust generation to the extent practicable. Particulate air monitoring requirements will be conducted as discussed in Section 3.5 of this document.

3.5 Air Monitoring

In the event that evidence of soil or groundwater contamination (e.g., sampling indicates hazardous waste, a petroleum-like or organic odor, sheen, or staining) is discovered, an air monitoring program will be implemented during the disturbance of that contamination to avoid or minimize exposure of the field personnel and the public. Results of this air monitoring will be used to determine appropriate response actions. A DustTrak® or equivalent would be used to measure real-time concentrations of total particulates 10 micrometers or less (PM_{10}) and a PID would be used to perform air monitoring for VOCs. The PID would be calibrated with isobutylene in accordance with the manufacturer's recommendations.

Measurements for particulate and VOCs would be taken prior to commencement of the work and during the work in areas where contaminated soil would be disturbed. The action levels below

are based on 15-minute averages of the monitoring data. The measurements will be made at the breathing height of the workers, as close to their location as practicable. The Site Safety Officer (SSO) will set up the equipment and confirm that it is working properly. His/her qualified designee may oversee the air measurements during the day. The initial measurement for the day will be performed before the start of work and will establish background levels. The final measurement for the day will be performed after the end of work. The action levels and required responses are listed in Table 1.

Table 1
Action Levels and Required Responses

Instrument	**Action Level** (Note 1)	**Response Action**
Particulate Monitoring	Less than 5 µg/m^3	**Level D or D-Modified** (Requires coveralls and steel toe boots) (As applicable: Chemical resistant gloves, chemical resistant boot covers, hard hat, safety glasses, face shield, or escape mask)
	Between 5 µg/m^3 and 150 µ/m^3	**Level C.** (Requires full face or half face respirator, hooded chemical resistant two piece Tyvek suit or overalls, chemical resistant inner and outer gloves, chemical resistant boot covers, steel toe and shank boots) (As applicable: hard hat, face shield, or escape mask) Apply dust suppression measures. If less than 2.5 µg/m^3, resume work using Level D. Otherwise, upgrade Level C.
	Above 150 µg/m^3	**Stop work.** Apply additional dust suppression measures. Resume work when less than 150 µg/m^3 and maintain Level C.
Volatile Organic Compound Monitoring	Less than 5 ppm in breathing zone.	**Level D or D-Modified**
	Between 5 and 20 ppm	**Level C**
	More than 20 ppm	**Stop work.** Resume work when source of vapors is abated and readings are less than 20 ppm above background.
Notes: 1:15-minute time-weighted average, parts per million (ppm), micrograms per cubic meter (µg/m^3)		

3.6 Groundwater Management Plan

Depending on the proposed development plans, dewatering during the proposed project may be necessary. If dewatering is necessary, it will be conducted in accordance with a NYCDEP Bureau of Wastewater Treatment (BWT) Wastewater Quality Control Permit. Groundwater testing, and possibly pre-treatment (dependent upon the testing results), will be necessary to comply with NYCDEP requirements.

4.0 PROJECT DESIGN MEASURES

4.1 Site Cap

To the extent that excavated areas are not to be repaved, i.e., when landscaped areas are created, these areas will be covered with a Site soil cap. The cap will consist of two feet (as measured from top of final grade) of either imported clean fill or existing Site soil meeting the criteria for imported clean fill. Soil/fill to be used in the soil cap will be tested at the source facility (for imported fill) or on-site (for excavated Site soil) for Target Compound List (TCL) VOCs, SVOCs, pesticides, PCBs, Target Analyte List (TAL) metals, and hexavalent chromium, and

must meet appropriate 6 NYCRR Part 375 Soil Cleanup Objectives based on the planned use of that area. The clean soil/fill layer will be underlain by a demarcation layer such as orange snow fence to indicate the top of the original soil/fill. In addition to the criteria above, reuse procedures in Section 3.3 of this RAP shall also be followed.

4.2 Vapor Controls

To reduce the potential for vapor intrusion, vapor controls will be incorporated into the foundations of new occupied structures.

5.0 QUALITY ASSURANCE/QUALITY CONTROL

All necessary analyses will be performed by a laboratory that has received approval from the New York State Department of Health's Environmental Laboratory Approval Program (ELAP) for the methods that require analysis.

5.1 Sample Collection

Samples will be collected in accordance with the following procedures:

- Record sample observations (evidence of contamination, PID readings, soil classification) in field log book.
- Collect an aliquot of soil or groundwater using a dedicated and disposable plastic sample spoon or sample bailer and place in laboratory-supplied sample jars. One grab sample will be collected for VOC analysis, if applicable. One composite sample will be collected for all other analyses.
- Seal and label the sample jars as described in Section 5.6 and place in a chilled cooler.

5.2 Decontamination Procedures

To avoid contamination and cross-contamination of samples, only dedicated or disposable sampling equipment may be used to collect these samples. All non-disposable equipment involved in field sampling must be decontaminated before being brought to the sampling location, and must be properly decontaminated after use.

5.3 Sample Identification

All samples will be consistently identified in all field documentation, chain-of-custody (COC) documents and laboratory reports using an alpha-numeric or alpha-alpha code with the date of collection in "yyyy-mm-dd" format. For stockpiled soil, the alpha prefix will be "SP" and the numbers following the alpha prefix will correspond to excavated stockpiles, beginning with "1, 2, 3…etc." For example, the sample collected from the first stockpile on May 1, 2016 will be labeled "SP-1 20160501" and the sample collected from the second stockpile on May 1, 2016 will be labeled "SP-2 20160501".

For groundwater samples, the alpha prefix will be "GW" and the number following the prefix will correspond to the sample number with the date of collection in "yyyy-mm-dd" format. For example, the first groundwater sample collected for sample analysis on May 1, 2016 will be labeled "GW-1 20160501" and the second sample collected on May 1, 2016 will be "GW-2 20160501".

5.4 Sample Labeling and Shipping

All sample containers will be labeled with the following information:

- Site identification
- Sample identification
- Date and time of collection
- Analysis(es) to be performed
- Sampler's initials

Once the samples are collected and labeled, they will be placed in chilled coolers and stored in a cool area away from direct sunlight to await shipment to the laboratory. Soil samples will be shipped to the laboratory at a frequency that will not result in an exceedance of applicable holding times for sample methods. At the start and end of each workday, field personnel will add ice to the coolers as needed.

The samples will be prepared for shipment by placing each sample jar in a sealable plastic bag, then wrapping each bag in bubble wrap to prevent breakage, adding freezer packs and/or fresh ice in sealable plastic bags and the COC form. Samples will be shipped overnight (e.g., Federal Express) or transported by a laboratory courier. All coolers shipped to the laboratory will be sealed with mailing tape and a COC seal to ensure that the coolers remain sealed during delivery.

5.5 Sample Custody

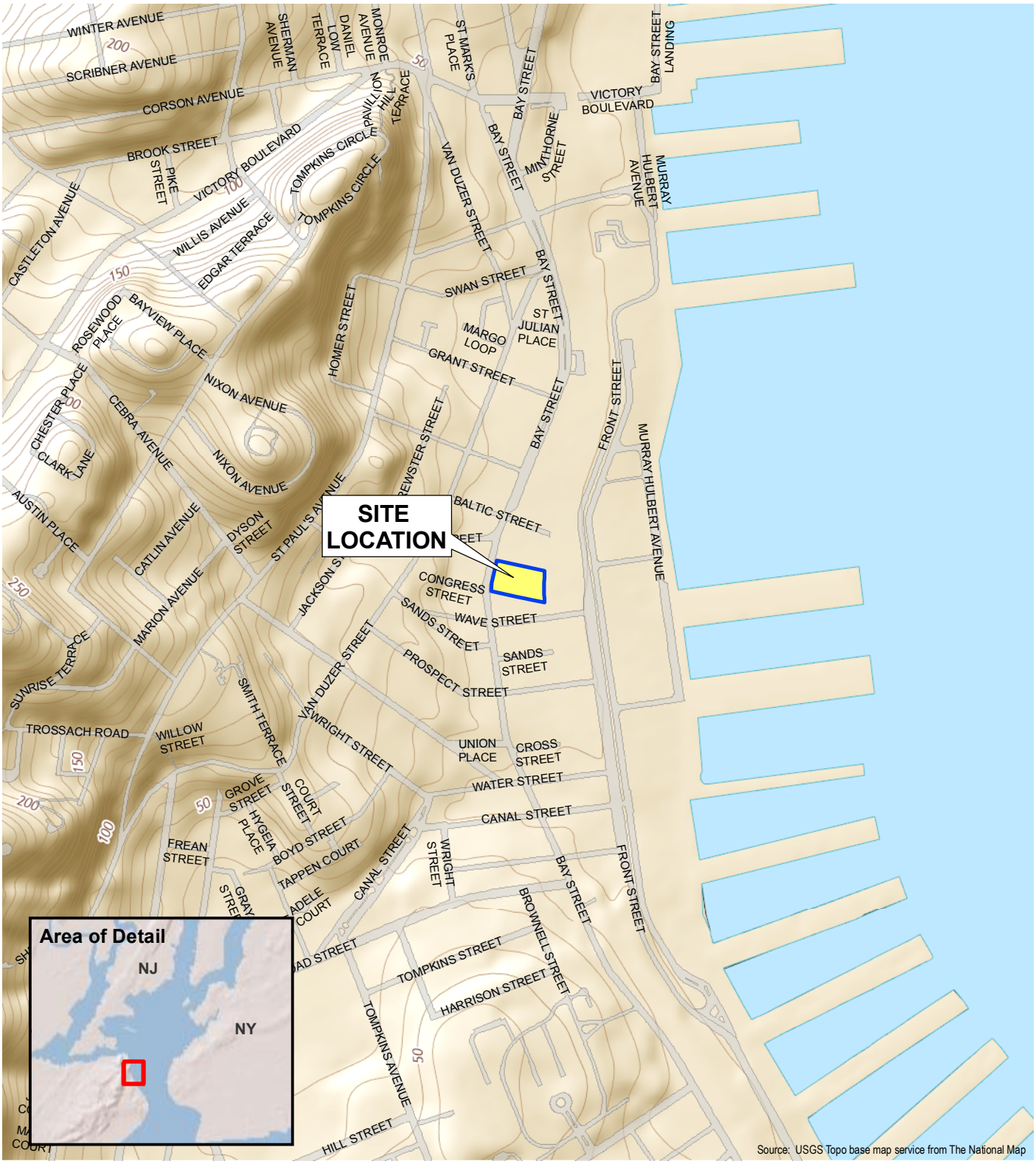
Field personnel will be responsible for maintaining the sample coolers in a secured location until they are picked up and/or sent to the laboratory. The record of possession of samples from the time they are obtained in the field to the time they are delivered to the laboratory or shipped off-site will be documented on COC forms. The COC forms will contain the following information: project name; names of sampling personnel; sample number; date and time of collection and matrix; and signatures of individuals involved in sample transfer, and the dates and times of transfers. Laboratory personnel will note the condition of the custody seal and sample containers at sample check-in at the laboratory.

5.6 Documentation

A sample log book will be maintained. The following information, at a minimum, will be recorded to the log:

- Sample identification number
- Sample location
- Field Observations
- Sample Type
- Analyses
- Date/Time of collection
- Collector's name
- Sample procedures and equipment utilized
- Date sent to laboratory/name of laboratory
- Copies of Site drawings indicating stockpile numbers and locations

FIGURE



SOURCE
USGS 7.5 Minute Topographic Map
JERSEY CITY Quad 2013

0 800 1,600 Feet

475 Bay Street
Staten Island, New York

SITE LOCATION

AKRF
Environmental Consultants
440 Park Avenue South, New York, NY 10016

DATE
4/11/2016

PROJECT No.
11802

FIGURE
1

©2016 AKRF, Inc. Environmental Consultants O:\Projects\11802 - 475 BAY STREETHazmat\11802 Fig 1 site loc map.mxd

APPENDIX A

CONSTRUCTION HEALTH AND SAFETY PLAN

475 Bay Street
Tax Block 488, Lot 9

STATEN ISLAND, NEW YORK

Construction Health and Safety Plan

AKRF Project Number: 12461

Prepared for:

BFC Partners
150 Myrtle Avenue, Suite 2
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Prepared by:

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APRIL 2016

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FIGURES

Figure 1 – Site Location
Figure 2 – Hospital Location Map

APPENDICES

Appendix A – Potential Health Effects from On-site Contaminants
Appendix B – Report Forms
Appendix C – Emergency Hand Signals
Appendix D – Vapor Barrier Specifications

1.0 PURPOSE

This Construction Health and Safety Plan (CHASP) was prepared for the approximately 54,000-square foot parcel located at 475 Bay Street in Staten Island, New York ("the Site"), also identified as Tax Block 119, Lot 143. The Site consists of a partially asphalt-paved parking lot currently being used for vehicle and construction equipment storage. A location map is provided as Figure 1.

The purpose of this CHASP is to assign responsibilities, establish personnel protection standards and mandatory safety practices and procedures, and provide for contingencies that may arise during construction at the Site. The CHASP is intended to minimize health and safety risks resulting from the known or potential presence of subsurface hazardous materials.

This plan is not designed to address geotechnical, mechanical, or general construction safety concerns, nor to supersede or replace any Occupation Safety and Health Administration (OSHA) regulation, and/or local and state construction codes or regulations.

2.0 APPLICABILITY

Work subject to this CHASP includes all activities that disturb the existing soil on-site. The contractors and their subcontractors involved in the disturbance will provide a copy of this CHASP to their employees whose work involves any potential exposure to on-site soil, and will complete all work in accordance with this CHASP.

3.0 SITE DESCRIPTION

3.1 General Information

The Site is an approximately 54,000-square foot, partially asphalt-paved parking lot currently being used for vehicle and construction equipment storage. The surface topography of the Site is generally level. The Site is approximately 16 feet above mean sea level.

Soil at the Site generally consists of fill material (sand with silt, gravel, concrete, brick, and asphalt) down to approximately 10 feet below grade underlain by apparent native sand with clay, gravel, and silt. Groundwater was first encountered during AKRF's August 2013 Subsurface (Phase II) Investigation at between approximately 6 and 15 feet below grade. Groundwater is expected to flow towards the harbor, located approximately 600 feet to the east. However, groundwater flow direction can be affected by many factors.

3.2 Hazard Potential

The hazard potential was evaluated based on the findings of the 2000 Phase I Environmental Site Assessment (ESA) by ATV Enterprises, 2000; the April 2013 *Phase I Environmental Site Assessment (ESA)* by URS Corporation, the April 2013 *Ground Penetrating Radar (GPR) Survey* by Hager Richter Geoscience, Inc., and the September 2013 *Subsurface (Phase II) Investigation Report* by AKRF, Inc.

3.3 Hazard Evaluation

The most likely routes of exposure are breathing of VOCs and/or SVOCs or particulate-laden air released during soil disturbing activities, dermal contact, and accidental ingestion. Appendix A includes Site-specific health effects from chemicals present or potentially present on-site.

Although some of the chemicals of concern listed in the sections below were not detected during the Subsurface Investigation, they are included here as a precaution. The remaining sections of this CHASP address procedures (including training, air monitoring, work practices, and emergency response) to reduce the potential for unnecessary and unacceptable exposure to these contaminants.

The potential adverse health effects from these detected contaminants are diverse. Many of these compounds are known or suspected to result in chronic illness from long-term exposures. However, due to the limited nature of the proposed construction, only acute effects are a potential concern.

This CHASP addresses potential environmental hazards from the presence of hazardous materials. It is not intended to address the normal hazards of construction work, which are separately covered by OSHA regulations and/or local and state construction codes and regulations.

3.3.1 Hazards of Concern

Check all that apply		
(×) Organic Chemicals	(×) Inorganic Chemicals	( ) Radiological
( ) Biological	( ) Explosive/Flammable	( ) Oxygen Deficient Atm.
(×) Heat Stress	(×) Cold Stress	( ) Other
Comments: No personnel are permitted to enter permit confined spaces		

3.3.2 Physical Characteristics

Check all that apply		
(×) Liquid	(×) Solid	( ) Sludge
(×) Vapors	( ) Unknown	( ) Other

3.3.3 Hazardous Materials

Check all that apply					
Chemicals	**Solids**	**Sludges**	**Solvents**	**Oils**	**Other**
( ) Acids	( ) Ash	( ) Paints	(x) Halogens	( ) Transformer	( ) Lab
( ) Caustics	( ) Asbestos	( ) Metals	(x) Petroleum	( ) Other DF	( ) Pharm.
(x) Pesticides	( ) Tailings	( ) POTW	( ) Other	( ) Motor or Hydraulic Oil	( ) Hospital
(x) Petroleum	(x) Other: Fill Material	( ) Other – Tars & Other NAPL		( ) Gasoline	( ) Rad.
( ) Inks				(X) Fuel Oil	( ) MGP
( ) PCBs					( ) Mold
(x) Metals					( ) Cyanide
(x) Other: VOCs, SVOCs					

3.3.4 Chemicals of Concern

Chemicals	REL/PEL/STEL (ppm)	Health Hazards
Arsenic	PEL = 0.5 mg/m^3	Irritation skin, possible dermatitis; respiratory distress; diarrhea; kidney damage; muscle tremor, convulsions; possible gastrointestinal tract, reproductive effects; possible liver damage.
Barium	REL = 0.5 mg/m^3 PEL = 0.5 mg/m^3	Irritation eyes, skin, upper respiratory system; skin burns; gastroenteritis; muscle spasm; slow pulse, extrasystoles; hypokalemia.
Benzene	REL = 0.1 ppm PEL = 1 ppm STEL = 5 ppm	Irritation eyes, skin, nose, respiratory system; dizziness; headache, nausea, staggered gait; anorexia, lassitude, dermatitis; bone marrow depression, potential occupational carcinogen.
Chromium	REL = 0.5 mg/m^3 PEL = 1 mg/m^3	Irritation eyes, skin; lung fibrosis (histologic).
Copper	REL = 1 mg/m^3 PEL = 1 mg/m^3	Irritation eyes, nose, pharynx; nasal septum perforation; metallic taste; dermatitis; in animals: lung, liver, kidney damage; anemia
Ethylbenzene	REL = 100 ppm PEL = 100 ppm	Irritation eyes, skin, mucous membrane; headache; dermatitis; narcosis, coma
Fuel Oils	REL = 350 mg/m^3 PEL = 400 ppm	Nausea, irritation – eyes, hypertension, headache, light-headedness, loss of appetite, poor coordination; long-term exposure – kidney damage, blood clotting problems; potential carcinogen.
Lead	REL = 0.05 mg/m^3 PEL = 0.05 mg/m^3	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.
Mercury	REL = 0.05 mg/m^3 PEL = 0.1 mg/m^3	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.
Nickel	REL = 0.015 mg/m^3 PEL = 1 mg/m^3	Sensitization dermatitis, allergic asthma, pneumonitis; [potential occupational carcinogen].
Tetrachloroethylene	PEL = 100 ppm	Irritation eyes, skin, nose, throat, respiratory system; nausea; flush face, neck; dizziness, incoordination; headache, drowsiness; skin erythema (skin redness); liver damage; [potential occupational carcinogen].
Polycyclic Aromatic Hydrocarbons (PAHs)	PEL = 5 mg/m^3	Harmful effects to skin, bodily fluids, and ability to fight disease, reproductive problems; [potential occupational carcinogen]
Polychlorinated Biphenyls (PCBs)	PCB-1242: REL = 1 mg/m^3 PEL = 0.001 mg/m^3 PCB-1254: REL = 0.5 mg/m^3 PEL = 0.001 mg/m^3	Rash; anemia, liver, stomach, thyroid damage; reduced ability to fight disease; impaired reproduction.
Xylenes	REL = 100 ppm PEL = 100 ppm	Irritation eyes, skin, nose, throat; dizziness, excitement, drowsiness, poor coordination, staggering gait; corneal vacuolization; anorexia, nausea, vomiting, abdominal pain; dermatitis.
Zinc	REL = 5 mg/m^3 PEL = 15 mg/m^3	Metal fume fever: chills, muscle ache, nausea, fever, dry throat, cough; lassitude (weakness, exhaustion); metallic

Chemicals	REL/PEL/STEL (ppm)	Health Hazards
		taste; headache; blurred vision; low back pain; vomiting; malaise (vague feeling of discomfort); chest tightness; dyspnea (breathing difficulty), rales, decreased pulmonary function.
Comments: STEL = Short Term Exposure Limit REL = National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limit PEL = OSHA Permissible Exposure Limit		

4.0 HEALTH AND SAFETY OFFICER

The contractor or engineer will designate one of its personnel as the Site Safety Officer (SSO). The SSO will be a competent person responsible for the implementation of this plan. The SSO will have completed a 40-hour training course (updated by an annual refresher) that meets OSHA requirements of 29 CFR Part 1910, Occupational Safety and Health Standards. The SSO has stop-work authorization, which he/she will execute on his/her determination of an imminent safety hazard, emergency situation, or other potentially dangerous situation. If the SSO must be absent from the Site, he/she will designate a suitably qualified replacement that is familiar with the CHASP.

5.0 TRAINING

All those who enter the work area while intrusive activities are being performed must recognize and understand the potential hazards to health and safety. All construction personnel upon entering the Site must attend a brief training meeting, its purpose being to:

- Make workers aware of the potential hazards they may encounter;
- Instruct workers on how to identify potential hazards,
- Provide the knowledge and skills necessary for them to perform the work with minimal risk to health and safety;
- Make workers aware of the purpose and limitations of safety equipment; and
- Ensure that they can safely avoid or escape from emergencies.

Each member of the construction crew will be instructed in these objectives before he/she goes onto the Site. Construction personnel will be responsible for identifying potential hazards in the work zone. The SSO or other suitably trained individual will be responsible for conducting the training program. Others who enter the Site must be accompanied by a suitably-trained construction worker.

6.0 GENERAL WORK PRACTICES

To protect the health and safety of the field personnel, all field personnel will adhere to the guidelines listed below during activities involving subsurface disturbance in contaminated areas.

- Eating, drinking, chewing gum or tobacco, and smoking are prohibited, except in designated areas on the Site. These areas will be designated by the SSO.

- Workers must wash their hands and face thoroughly on leaving the work area and before eating, drinking, or any other such activity. The workers should shower as soon as possible after leaving the Site.
- Contact with contaminated or suspected surfaces should be avoided.
- The buddy system should always be used; each buddy should watch for signs of fatigue, exposure, and heat stress.

7.0 PERSONAL PROTECTIVE EQUIPMENT & AIR MONITORING

7.1 Personal Protective Equipment

The personal protection equipment required for various kinds of Site investigation tasks are based on 29 CFR 1910.120, Hazardous Waste Operations and Emergency Response, Appendix B, "General Description and Discussion of the Levels of Protection and Protective Gear."

During the implementation of air monitoring, if deemed appropriate by the SSO, Site personnel will wear, at a minimum, Level D personal protective equipment. The protection will be based on the air monitoring described in Section 7.2.

Level of Protection Summary

LEVEL OF PROTECTION & PPE		**1 – Excavation**	**2 – Other Earth Moving Activities**
Level D (×) Steel Toe Shoes (×) Hard Hat (×) Work Gloves	(×) Safety Glasses ( ) Face Shield (×) Ear Plugs (within 25 ft of excavator) (×) Latex Gloves	Yes	Yes
Level D – Modified ***(in addition to Level D)*** (×) Tyvek Coveralls	(×) Nitrile Gloves ( ) Overboots ( ) Saranex Coveralls	As Necessary	As Necessary
Level C *(in addition to Level D – Modified)* (×) Half-Face Respirator & (×) Safety Glasses OR (×) Full Face Respirator ( ) Full-Face PAPR	( ) Particulate Cartridge ( ) Organic Cartridge (×) Dual Organic/ Particulate Cartridge	If PID > 5 ppm (breathing zone)	If PID > 5 ppm (breathing zone)
Comments: Cartridges to be changed out at least once per shift unless warranted beforehand (e.g., more difficult to breathe or any odors detected). PID = photoionization detector ppm = parts per million			

7.2 Work Zone Air Monitoring

Monitoring with a particulate air monitor will be conducted during excavation and other earth moving activities only in the event that contamination is encountered. Real time air monitoring will be performed with a PID during sampling and excavation work in areas where petroleum or other VOCs are detected. Measurements would be taken prior to commencement of work and continuously during the work as outlined in the following table. Measurements will be made as close to the workers as practicable and at the breathing height of the workers. The SSO will set up the equipment and confirm that it is working properly. His/her designee may oversee the air measurements during the day. The initial measurement for the day will be performed before the start of work and will establish the background level for that day. The final measurement for the day will be performed after the end of work. The action levels and required responses are listed in the following table:

Action Levels and Required Safety Response Actions

Instrument	Task to be Monitored	Action Level	Response Action
PID (Minirae 2000 or equivalent)	Excavation activities disturbing contaminated soil	Less than 5 ppm in breathing zone.	Level D or D-Modified
		Between 5 and 20 ppm	Level C
		More than 20 ppm	Stop work. Resume work when readings are less than 20 ppm.
Particulate monitor (MIE 1000 Personal DataRam or equivalent)	Excavation activities disturbing contaminated soil	Less than 5 $\mu g/m^3$	Level D
		Between 5 $\mu g/m^3$ and 150 $\mu g/m^3$	Level C. Apply dust suppression measures. If < 2.5 $\mu g/m^3$, resume work using Level D. Otherwise, use Level C.
		Above 150 $\mu g/m^3$	Stop work. Apply additional dust suppression measures. Resume work when less than 150 $\mu g/m^3$.

Notes:

PID = photoionization detector ppm = parts per million $\mu g/m^3$= micrograms per cubic meter

Field personnel will be trained in the proper operation of all field instruments at the start of the field program. Instruction manuals for the equipment will be on file at the Site for referencing proper operation, maintenance, and calibration procedures.

The equipment will be calibrated according to manufacturer specifications at the start of each day of fieldwork. If an instrument fails calibration, the project manager will be contacted immediately to obtain a replacement instrument and arrange for repairs. A calibration log will be maintained to record the date of each calibration, any failure to calibrate and corrective actions taken. The PID will be calibrated each day using 100 ppm isobutylene standard gas.

8.0 DECONTAMINATION PROCEDURES

8.1 Personnel Decontamination

Personnel decontamination, if deemed necessary by the SSO, will take place in a designated decontamination area. This area will be delineated during each stage of work. Personnel decontamination will consist of the following steps:

- Soap and potable water wash and potable water rinse of gloves;
- Coverall removal (if applicable);
- Glove removal;
- Disposable clothing removal; and
- Field wash of hands and face.

8.2 Sampling Equipment Decontamination

Any non-disposable sampling equipment for confirmatory sampling or other equipment that is in contact with contaminated materials will be decontaminated in accordance with the following procedure:

- Double wash with solution of Simple Green® and clean tap water;
- Double rinse with clean tap water;
- Rinse with clean distilled water; and
- Allow equipment to air dry.

8.3 Heavy Equipment Decontamination

If heavy equipment comes in contact with contaminated materials, it will be decontaminated prior to being relocated to a clean area or leaving the Site. A designated decontamination pad will be constructed, where soil, dust, and/or oil will be washed off the exterior, undercarriage, and wheels or tracks of the equipment. Wash water will be collected for treatment and/or disposal.

9.0 EMERGENCY RESPONSE

9.1 Emergency Procedures

In the event that an emergency develops at the Site, the procedures delineated herein are to be immediately followed. Emergency conditions are considered to exist if:

- Any member of the field crew is involved in an accident or experiences any adverse effects or symptoms of exposure while on-site.
- A condition is discovered that suggests the existence of a situation creating a higher health hazard than anticipated.
- A spill of oil or other hazardous materials.

General emergency procedures and specific procedures for personal injury and chemical exposure are described below. In the event of an accident or emergency, an Incident Report form should

be filled out and placed in the project file. An example Incident Report form is provided in Appendix B. Information on emergency hand signals is provided in Appendix C.

9.1.1 Chemical Exposure

If a member of the field crew demonstrates symptoms of chemical exposure the procedures outlined below should be followed:

- Another team member (buddy) should remove the individual from the immediate area of contamination. The buddy should communicate to the SSO (via voice and hand signals) of the chemical exposure. The SSO should contact the appropriate emergency response agency.
- Precautions should be taken to avoid exposure of other individuals to the chemical.
- If the chemical is on the individual's clothing, the chemical should be neutralized or removed if it is safe to do so.
- If the chemical has contacted the skin, the skin should be washed with copious amounts of water.
- In case of eye contact, an emergency eye wash should be used. Eyes should be washed for at least 15 minutes.
- All chemical exposure incidents must be reported in writing to the project manager. The SSO is responsible for completing the Incident Report Form.

9.1.2 Personal Injury

In case of personal injury at the Site, the following procedures should be followed:

- Another team member (buddy) should signal the SSO that an injury has occurred.
- A field team member trained in first aid can administer treatment to an injured worker.
- If deemed necessary, the victim should then be transported to the nearest hospital or medical center. If necessary, an ambulance should be called to transport the victim.
- The SSO is responsible for making certain that an Incident Report Form is completed. This form is to be submitted to the AKRF Health and Safety Officer. Follow-up action should be taken to correct the situation that caused the accident.
- Any incident (near miss, Site damage, first aid, medical treatment, etc.) must be reported.

A first-aid kit, eye-wash, and blood-borne pathogens kit will be kept on-site during the field activities.

9.1.3 Evacuation Procedures

- The SSO will initiate evacuation procedures by signaling to leave the Site or containment structure.
- All personnel in the work area should evacuate the area and meet in the common designated area.

- All personnel suspected to be in or near the contract work area should be accounted for and the whereabouts or missing persons determined immediately.
- The SSO will then give further instruction.

9.1.4 Procedures Implemented in the Event of a Major Fire, Explosion, or Emergency

- Notify the paramedics and/or fire department, as necessary;
- Signal the evacuation procedure previously outlined and implement the entire procedure;
- Isolate the area;
- Stay upwind of any fire;
- Keep the area surrounding the problem source clear after the incident occurs; and
- Complete accident report for and distribute to appropriate personnel.

9.1.5 Spill Response

All personnel must take every precaution to minimize the potential for spills during Site operations. Any spill will be reported immediately to the SSO. The SSO will then determine and report any required spills to the NYCDEP and/or NYSDEC Hotlines. Spill control apparatus (sorbent materials) will be located on-site. All materials used for the cleanup of spills will be containerized and labeled separately from other wastes. The SSO, in consultation with the project manager, will determine if additional spill response measures are required.

9.2 Hospital Directions

The **Richmond University Medical Center** is located at 355 Bard Avenue, Staten Island, New York 10310, as shown on Figure 2.

Hospital Information and Directions

Hospital Name:	Richmond University Medical Center
Phone Number:	(718) 818-1234
Address/Location:	355 Bard Avenue, Staten Island, New York 10310
Directions:	1. Head north on Bay Street toward William Street. 2. Turn left onto Clinton Street. 3. Turn left onto St. Paul's Avenue. 4. Turn right onto Cebra Avenue. 5. Continue onto Castleton Avenue. 6. Turn right onto Bard Avenue. 7. The emergency room will be on the right.

9.3 CHASP Contact Information

AKRF Project Manager – Deborah Shapiro ..... (646) 388-9544 (office)

Site Safety Officer (SSO) – Amy Jordan ..... (646) 388-9864 (office)
(610) 405-2847 (cell)

AKRF Project Principal – Marcus Simons ..... (646) 388-9520 (office)

AKRF Project Manager Alternate – Stephen Malinowski..... (631) 574-3724 (office)

Site Safety Officer (SSO) Alternate – Drew Lewis .....(201) 841-8479 (cell)

Ambulance, Fire, and Police Departments..... 911

Local Poison Control ..... (212) 764-7667
pm/weekend (212) 340-4494

NYSDEC Spill Response Team..... (800) 457-7362

NYCDEP Hotline .....(718) DEP-HELP

10.0 APPROVAL & ACKNOWLEDGMENTS OF CHASP

APPROVAL

Signed: _____ Date: _____

Project Manager

Signed: _____ Date: _____

Health and Safety Officer

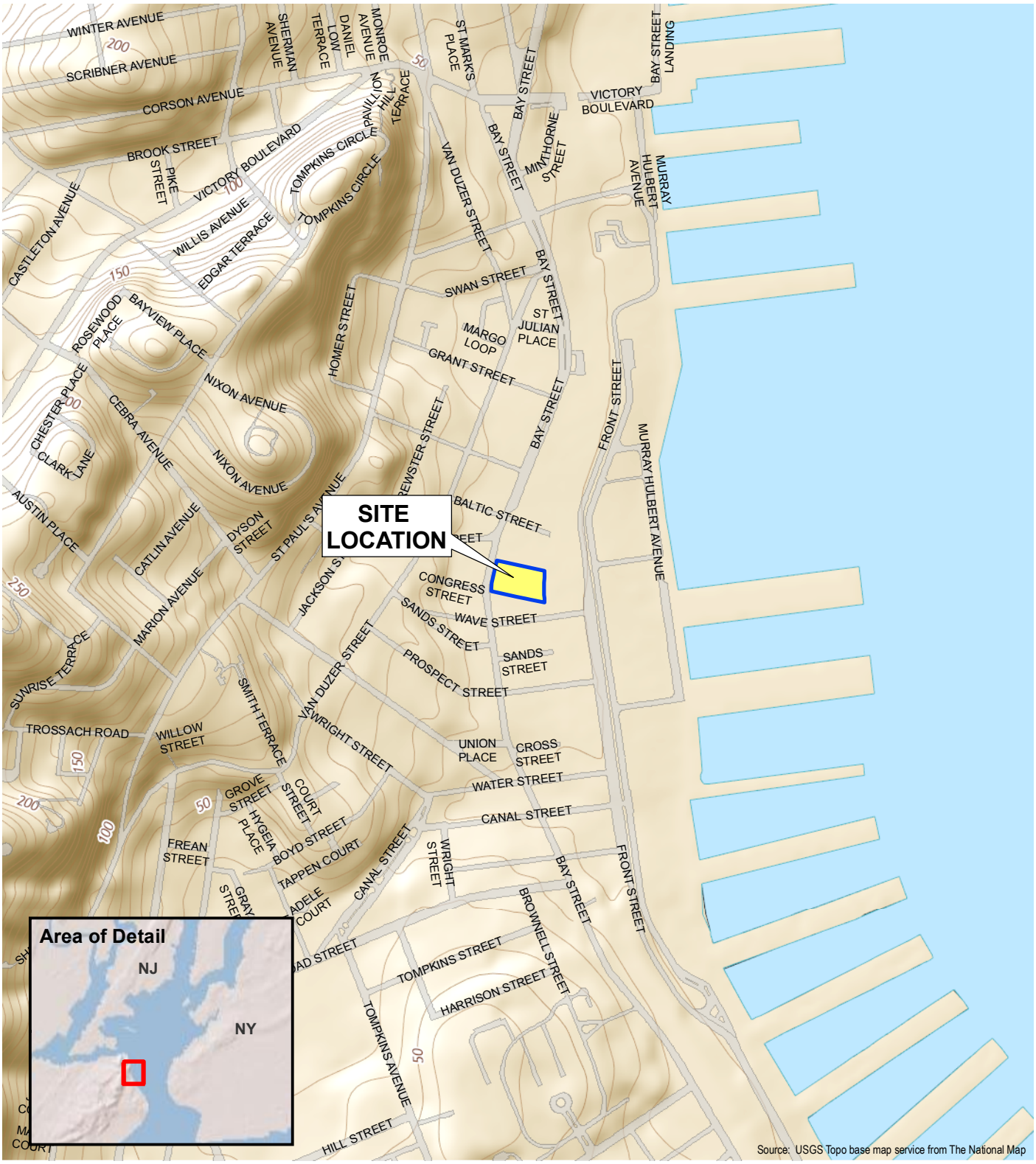
Below is an affidavit that must be signed by all workers who enter the Site. A copy of the CHASP must be on-site at all times and will be kept by the SSO.

AFFIDAVIT

I, _____ (name), of _____ (company name), have read the Construction Health and Safety Plan (CHASP) for 475 Bay Street in Staten Island, New York. I agree to conduct all on-site work in accordance with the requirements set forth in this CHASP and understand that failure to comply with this CHASP could lead to my removal from the Site.

Signed: _____ Company: _____ Date: _____
Signed: _____ Company: _____ Date: _____
Signed: _____ Company: _____ Date: _____
Signed: _____ Company: _____ Date: _____
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CONSTRUCTION HEALTH AND SAFETY PLAN
FIGURES



SOURCE
USGS 7.5 Minute Topographic Map
JERSEY CITY Quad 2013

0 800 1,600 Feet

475 Bay Street
Staten Island, New York

SITE LOCATION

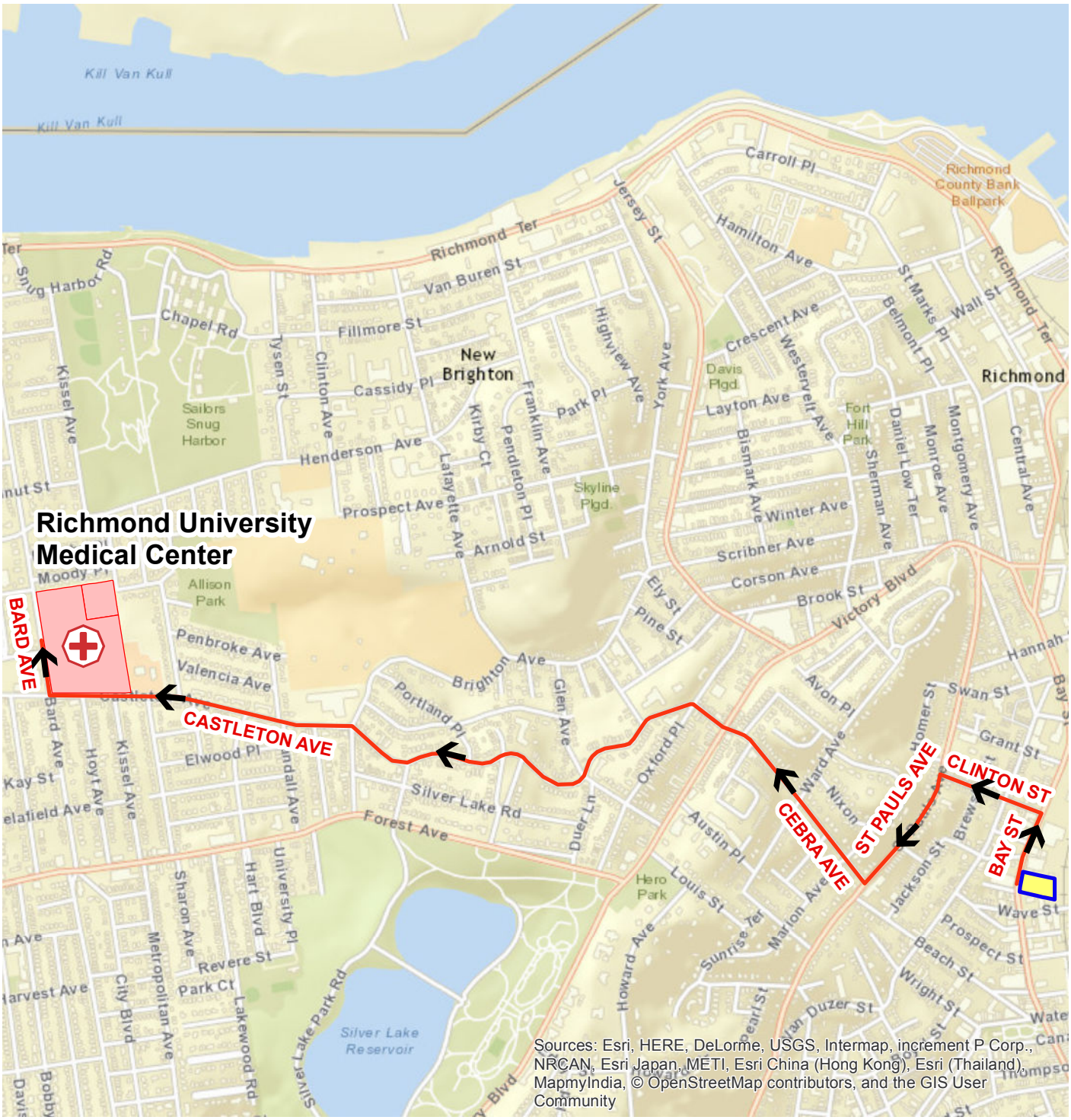
AKRF
Environmental Consultants
440 Park Avenue South, New York, NY 10016

DATE
4/11/2016

PROJECT No.
11802

FIGURE
1

©2016 AKRF, Inc. Environmental Consultants O:\Projects\11802 - 475 BAY STREETHazmat\11802 Fig 1 site loc map.mxd



Legend

- Project Site Location
- Hospital Location
- Route to Hospital

0 600 1,200 2,400

Feet

Richmond University Medical Center
355 Bard Avenue
Staten Island, NY 10310
(718) 818-1234

475 Bay Street
Staten Island, New York

HOSPITAL LOCATION MAP

AKRF
Environmental Consultants
440 Park Avenue South, New York, NY 10016

DATE
4/14/2016

PROJECT NO.
11802

FIGURE
2

© 2016 AKRF, Inc. Environmental Consultants\M:\AKRF Project Files\11802 475 Bay Street\Remedial Action Plan\GIS & Graphics\11802 Route to hospital.mxd4/14/2016 3:08:44 PM mveilleux

CONSTRUCTION HEALTH AND SAFETY PLAN
APPENDIX A

POTENTIAL HEALTH EFFECTS FROM ON-SITE CONTAMINANTS

ATSDR
AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY

ARSENIC
CAS # 7440-38-2

Division of Toxicology ToxFAQs™ December 2003

This fact sheet answers the most frequently asked health questions (FAQs) about arsenic. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to higher than average levels of arsenic occurs mostly in the workplace, near hazardous waste sites, or in areas with high natural levels. At high levels, inorganic arsenic can cause death. Exposure to lower levels for a long time can cause a discoloration of the skin and the appearance of small corns or warts. Arsenic has been found at 1,014 of the 1,598 National Priority List sites identified by the Environmental Protection Agency (EPA).

What is arsenic?

Arsenic is a naturally occurring element widely distributed in the earth's crust. In the environment, arsenic is combined with oxygen, chlorine, and sulfur to form inorganic arsenic compounds. Arsenic in animals and plants combines with carbon and hydrogen to form organic arsenic compounds.

Inorganic arsenic compounds are mainly used to preserve wood. Organic arsenic compounds are used as pesticides, primarily on cotton plants.

What happens to arsenic when it enters the environment?

❑ Arsenic cannot be destroyed in the environment. It can only change its form.
❑ Arsenic in air will settle to the ground or is washed out of the air by rain.
❑ Many arsenic compounds can dissolve in water.
❑ Fish and shellfish can accumulate arsenic, but the arsenic in fish is mostly in a form that is not harmful.

How might I be exposed to arsenic?

❑ Eating food, drinking water, or breathing air containing arsenic.
❑ Breathing contaminated workplace air.
❑ Breathing sawdust or burning smoke from wood treated with arsenic.
❑ Living near uncontrolled hazardous waste sites containing arsenic.
❑ Living in areas with unusually high natural levels of arsenic in rock.

How can arsenic affect my health?

Breathing high levels of inorganic arsenic can give you a sore throat or irritated lungs. Ingesting high levels of inorganic arsenic can result in death. Lower levels of arsenic can cause nausea and vomiting, decreased production of red and white blood cells, abnormal heart rhythm, damage to blood vessels, and a sensation of "pins and needles" in hands and feet.

Ingesting or breathing low levels of inorganic arsenic for a long time can cause a darkening of the skin and the

appearance of small "corns" or "warts" on the palms, soles, and torso.

Skin contact with inorganic arsenic may cause redness and swelling.

Organic arsenic compounds are less toxic than inorganic arsenic compounds. Exposure to high levels of some organic arsenic compounds may cause similar effects as inorganic arsenic.

How likely is arsenic to cause cancer?

Several studies have shown that inorganic arsenic can increase the risk of lung cancer, skin cancer, bladder cancer, liver cancer, kidney cancer, and prostate cancer. The World Health Organization (WHO), the Department of Health and Human Services (DHHS), and the EPA have determined that inorganic arsenic is a human carcinogen.

How can arsenic affect children?

We do not know if exposure to arsenic will result in birth defects or other developmental effects in people. Birth defects have been observed in animals exposed to inorganic arsenic.

It is likely that health effects seen in children exposed to high amounts of arsenic will be similar to the effects seen in adults.

How can families reduce the risk of exposure to arsenic?

❑ If you use arsenic-treated wood in home projects, you should wear dust masks, gloves, and protective clothing to decrease exposure to sawdust.
❑ If you live in an area with high levels of arsenic in water or soil, you should use cleaner sources of water and limit contact with soil.

Is there a medical test to show whether I've been exposed to arsenic?

There are tests to measure the level of arsenic in blood, urine, hair, or fingernails. The urine test is the most reliable test for arsenic exposure within the last few days. Tests on hair and fingernails can measure exposure to high levels or arsenic over the past 6-12 months. These tests can determine if you have been exposed to above-average levels of arsenic. They cannot predict how the arsenic levels in your body will affect your health.

Has the federal government made recommendations to protect human health?

EPA has set limits on the amount of arsenic that industrial sources can release to the environment and has restricted or canceled many uses of arsenic in pesticides. EPA has set a limit of 0.01 parts per million (ppm) for arsenic in drinking water.

The Occupational Safety and Health Administration has set limits of 10 μg arsenic per cubic meter of workplace air (10 $\mu g/m^3$) for 8 hour shifts and 40 hour work weeks.

Source of Information

Agency for Toxic Substances and Disease Registry (ATSDR). 2000. Toxicological Profile for Arsenic. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs™ Internet address is http://www.atsdr.cdc.gov/toxfaq.html . ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

ATSDR
AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY

BARIUM AND COMPOUNDS

CAS # 7440-39-3

Division of Toxicology and Environmental Medicine ToxFAQs™ **August 2007**

This fact sheet answers the most frequently asked health questions (FAQs) about barium and barium compounds. For more information, call the ATSDR Information Center at 1-800-232-4636. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It is important you understand this information because these substances may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to barium occurs mostly in the workplace or from drinking contaminated water. Ingesting drinking water containing levels of barium above the EPA drinking water guidelines for relatively short periods of time can cause gastrointestinal disturbances and muscle weakness. Ingesting high levels for a long time can damage the kidneys. Barium and barium compounds have been found in at least 798 of the 1,684 National Priority List sites identified by the Environmental Protection Agency (EPA).

What is barium?

Barium is a silvery-white metal which exists in nature only in ores containing mixtures of elements. It combines with other chemicals such as sulfur or carbon and oxygen to form barium compounds.

Barium compounds are used by the oil and gas industries to make drilling muds. Drilling muds make it easier to drill through rock by keeping the drill bit lubricated. They are also used to make paint, bricks, ceramics, glass, and rubber.

Barium sulfate is sometimes used by doctors to perform medical tests and to take x-rays of the gastrointestinal tract.

What happens to barium when it enters the environment?

❏ Barium gets into the air during the mining, refining, and production of barium compounds, and from the burning of coal and oil.
❏ The length of time that barium will last in air, land, water, or sediments depends on the form of barium released.
❏ Barium compounds, such as barium sulfate and barium carbonate, which do not dissolve well in water, can last a long time in the environment.
❏ Barium compounds, such as barium chloride, barium nitrate, or barium hydroxide, that dissolve easily in water usually do not last in these forms for a long time in the environment. The barium in these compounds that is dissolved in water quickly combines with sulfate or carbonate that are naturally found in water and become the longer lasting forms (barium sulfate and barium carbonate).
❏ Fish and aquatic organisms can accumulate barium.

How might I be exposed to barium?

❏ Ingesting small amounts present in your food and water or breathing air containing very low levels of barium.
❏ Living in areas with unusually high natural levels of barium in the drinking water.
❏ Working in a job that involves barium production or use.
❏ Living or working near waste sites where barium has been disposed of.

How can barium affect my health?

The health effects of the different barium compounds depend on how well the compound dissolves in water or in the stomach contents. Barium compounds that do not dissolve well, such as barium sulfate, are not generally harmful.

BARIUM AND COMPOUNDS
CAS # 7440-39-3

Barium has been found to potentially cause gastrointestinal disturbances and muscular weakness when people are exposed to it at levels above the EPA drinking water standards for relatively short periods of time. Some people who eat or drink amounts of barium above background levels found in food and water for a short period may experience vomiting, abdominal cramps, diarrhea, difficulties in breathing, increased or decreased blood pressure, numbness around the face, and muscle weakness. Eating or drinking very large amounts of barium compounds that easily dissolve can cause changes in heart rhythm or paralysis and possibly death. Animals that drank barium over long periods had damage to the kidneys, decreases in body weight, and some died.

How likely is barium to cause cancer?

The Department of Health and Human Services (DHHS) and the International Agency for Research on Cancer (IARC) have not classified barium as to its carcinogenicity. The EPA has determined that barium is not likely to be carcinogenic to humans following ingestion and that there is insufficient information to determine whether it will be carcinogenic to humans following inhalation exposure.

How can barium affect children?

We do not know whether children will be more or less sensitive than adults to barium toxicity. A study in rats that swallowed barium found a decrease in newborn body weight; we do not know if a similar effect would be seen in humans.

How can families reduce the risks of exposure to barium?

The greatest potential source of barium exposure is through food and drinking water. However, the amount of barium in foods and drinking water are typically too low to be of concern.

Is there a medical test to determine whether I've been exposed to barium?

There is no routine medical test to determine whether you have been exposed to barium. Doctors can measure barium in body tissues and fluids, such as bones, blood, urine, and feces, using very complex instruments. These tests cannot be used to predict the extent of the exposure or potential health effects.

The geometric mean barium level measured in the U.S. general population aged 6 and older is reported by the Centers for Disease Control and Prevention (CDC) as 1.44 μg/g creatinine (measured in urine).

Has the federal government made recommendations to protect human health?

The EPA has set a limit of 2.0 milligrams of barium per liter of drinking water (2.0 mg/L), which is the same as 2 ppm.

The Occupational Safety and Health Administration (OSHA) has set Permissible Exposure Limits (PELs) of 0.5 milligrams of soluble barium compounds per cubic meter of workplace air (0.5 mg/m^3) for 8 hour shifts and 40 hour work weeks. The OSHA limits for barium sulfate dust are 15 mg/m^3 of total dust and 5 mg/m^3 for respirable fraction.

The National Institute for Occupational Safety and Health (NIOSH) has set Recommended Exposure Limits (RELs) of 0.5 mg/m^3 for soluble barium compounds. The NIOSH has set RELs of 10 mg/m^3 (total dust) for barium sulfate and 5 mg/m^3 (respirable fraction).

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2007. Toxicological Profile for Barium and Compounds (Update). Atlanta, GA: U.S. Department of Public Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology and Environmental Medicine, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-800-232-4636, FAX: 770-488-4178. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html. ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

ATSDR
AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY

BENZENE
CAS # 71-43-2

This fact sheet answers the most frequently asked health questions (FAQs) about benzene. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. This information is important because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Benzene is a widely used chemical formed from both natural processes and human activities. Breathing benzene can cause drowsiness, dizziness, and unconsciousness; long-term benzene exposure causes effects on the bone marrow and can cause anemia and leukemia. Benzene has been found in at least 813 of the 1,430 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is benzene?

(Pronounced bĕn′zēn′)

Benzene is a colorless liquid with a sweet odor. It evaporates into the air very quickly and dissolves slightly in water. It is highly flammable and is formed from both natural processes and human activities.

Benzene is widely used in the United States; it ranks in the top 20 chemicals for production volume. Some industries use benzene to make other chemicals which are used to make plastics, resins, and nylon and synthetic fibers. Benzene is also used to make some types of rubbers, lubricants, dyes, detergents, drugs, and pesticides. Natural sources of benzene include volcanoes and forest fires. Benzene is also a natural part of crude oil, gasoline, and cigarette smoke.

What happens to benzene when it enters the environment?

- Industrial processes are the main source of benzene in the environment.
- Benzene can pass into the air from water and soil.
- It reacts with other chemicals in the air and breaks down within a few days.
- Benzene in the air can attach to rain or snow and be carried back down to the ground.
- It breaks down more slowly in water and soil, and can pass through the soil into underground water.
- Benzene does not build up in plants or animals.

How might I be exposed to benzene?

- Outdoor air contains low levels of benzene from tobacco smoke, automobile service stations, exhaust from motor vehicles, and industrial emissions.
- Indoor air generally contains higher levels of benzene from products that contain it such as glues, paints, furniture wax, and detergents.
- Air around hazardous waste sites or gas stations will contain higher levels of benzene.
- Leakage from underground storage tanks or from hazardous waste sites containing benzene can result in benzene contamination of well water.
- People working in industries that make or use benzene may be exposed to the highest levels of it.
- A major source of benzene exposures is tobacco smoke.

How can benzene affect my health?

Breathing very high levels of benzene can result in death, while high levels can cause drowsiness, dizziness, rapid heart rate, headaches, tremors, confusion, and unconsciousness. Eating or drinking foods containing high levels of benzene can cause vomiting, irritation of the stomach, dizziness, sleepiness, convulsions, rapid heart rate, and death.

ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html

The major effect of benzene from long-term (365 days or longer) exposure is on the blood. Benzene causes harmful effects on the bone marrow and can cause a decrease in red blood cells leading to anemia. It can also cause excessive bleeding and can affect the immune system, increasing the chance for infection.

Some women who breathed high levels of benzene for many months had irregular menstrual periods and a decrease in the size of their ovaries. It is not known whether benzene exposure affects the developing fetus in pregnant women or fertility in men.

Animal studies have shown low birth weights, delayed bone formation, and bone marrow damage when pregnant animals breathed benzene.

How likely is benzene to cause cancer?

The Department of Health and Human Services (DHHS) has determined that benzene is a known human carcinogen. Long-term exposure to high levels of benzene in the air can cause leukemia, cancer of the blood-forming organs.

Is there a medical test to show whether I've been exposed to benzene?

Several tests can show if you have been exposed to benzene. There is test for measuring benzene in the breath; this test must be done shortly after exposure. Benzene can also be measured in the blood, however, since benzene disappears rapidly from the blood, measurements are accurate only for recent exposures.

In the body, benzene is converted to products called metabolites. Certain metabolites can be measured in the urine. However, this test must be done shortly after exposure and is not a reliable indicator of how much benzene you have been exposed to, since the metabolites may be present in urine from other sources.

Has the federal government made recommendations to protect human health?

The EPA has set the maximum permissible level of benzene in drinking water at 0.005 milligrams per liter (0.005 mgL). The EPA requires that spills or accidental releases into the environment of 10 pounds or more of benzene be reported to the EPA.

The Occupational Safety and Health Administration (OSHA) has set a permissible exposure limit of 1 part of benzene per million parts of air (1 ppm) in the workplace during an 8-hour workday, 40-hour workweek.

Glossary

Anemia: A decreased ability of the blood to transport oxygen.

Carcinogen: A substance with the ability to cause cancer.

CAS: Chemical Abstracts Service.

Chromosomes: Parts of the cells responsible for the development of hereditary characteristics.

Metabolites: Breakdown products of chemicals.

Milligram (mg): One thousandth of a gram.

Pesticide: A substance that kills pests.

References

This ToxFAQs information is taken from the 1997 Toxicological Profile for Benzene (update) produced by the Agency for Toxic Substances and Disease Registry, Public Health Service, U.S. Department of Health and Human Services, Public Health Service in Atlanta, GA.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop E-29, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 404-498-0093. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

ATSDR
AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY

CHROMIUM

CAS # 7440-47-3

Division of Toxicology and Environmental Medicine ToxFAQs™ September 2008

This fact sheet answers the most frequently asked health questions (FAQs) about chromium. For more information, call the ATSDR Information Center at 1-800-232-4636. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It is important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to chromium occurs from ingesting contaminated food or drinking water or breathing contaminated workplace air. Chromium(VI) at high levels can damage the nose and cause cancer. Ingesting high levels of chromium(VI) may result in anemia or damage to the stomach or intestines. Chromium(III) is an essential nutrient. Chromium has been found in at least 1,127 of the 1,669 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is chromium?

Chromium is a naturally occurring element found in rocks, animals, plants, and soil. It can exist in several different forms. Depending on the form it takes, it can be a liquid, solid, or gas. The most common forms are chromium(0), chromium(III), and chromium(VI). No taste or odor is associated with chromium compounds.

The metal chromium, which is the chromium(0) form, is used for making steel. Chromium(VI) and chromium(III) are used for chrome plating, dyes and pigments, leather tanning, and wood preserving.

What happens to chromium when it enters the environment?

❑ Chromium can be found in air, soil, and water after release from the manufacture, use, and disposal of chromium-based products, and during the manufacturing process.
❑ Chromium does not usually remain in the atmosphere, but is deposited into the soil and water .
❑ Chromium can easily change from one form to another in water and soil, depending on the conditions present.
❑ Fish do not accumulate much chromium in their bodies from water.

How might I be exposed to chromium?

❑ Eating food containing chromium(III).
❑ Breathing contaminated workplace air or skin contact during use in the workplace.
❑ Drinking contaminated well water.
❑ Living near uncontrolled hazardous waste sites containing chromium or industries that use chromium.

How can chromium affect my health?

Chromium(III) is an essential nutrient that helps the body use sugar, protein, and fat.

Breathing high levels of chromium(VI) can cause irritation to the lining of the nose, nose ulcers, runny nose, and breathing problems, such as asthma, cough, shortness of breath, or wheezing. The concentrations of chromium in air that can cause these effects may be different for different types of chromium compounds, with effects occurring at much lower concentrations for chromium(VI) compared to chromium(III).

The main health problems seen in animals following ingestion of chromium(VI) compounds are irritation and ulcers in the stomach and small intestine and anemia. Chromium(III) compounds are much less toxic and do not appear to cause these problems.

Sperm damage and damage to the male reproductive system have also been seen in laboratory animals exposed to chromium(VI).

Skin contact with certain chromium(VI) compounds can cause skin ulcers. Some people are extremely sensitive to chromium(VI) or chromium(III). Allergic reactions consisting of severe redness and swelling of the skin have been noted.

How likely is chromium to cause cancer?

The Department of Health and Human Services (DHHS), the International Agency for Reseach on Cancer (IARC), and the EPA have determined that chromium(VI) compounds are known human carcinogens. In workers, inhalation of chromium(VI) has been shown to cause lung cancer. Chromium(VI) also causes lung cancer in animals. An increase in stomach tumors was observed in humans and animals exposed to chromium(VI) in drinking water.

How can chromium affect children?

It is likely that health effects seen in children exposed to high amounts of chromium will be similar to the effects seen in adults.

We do not know if exposure to chromium will result in birth defects or other developmental effects in people. Some developmental effects have been observed in animals exposed to chromium(VI).

How can families reduce the risks of exposure to chromium?

❑ Children should avoid playing in soils near uncontrolled hazardous waste sites where chromium may have been discarded.

❑ Chromium is a component of tobacco smoke. Avoid smoking in enclosed spaces like inside the home or car in order to limit exposure to children and other family members.

❑ Although chromium(III) is an essential nutrient, you should avoid excessive use of dietary supplements containing chromium.

Is there a medical test to determine whether I've been exposed to chromium?

Since chromium(III) is an essential element and naturally occurs in food, there will always be some level of chromium in your body. Chromium can be measured in hair, urine, and blood.

Higher than normal levels of chromium in blood or urine may indicate that a person has been exposed to chromium. However , increases in blood and urine chromium levels cannot be used to predict the kind of health effects that might develop from that exposure.

Has the federal government made recommendations to protect human health?

The EPA has determined that exposure to chromium in drinking water at concentrations of 1 mg/L for up to 10 days is not expected to cause any adverse effects in a child.

The FDA has determined that the chromium concentration in bottled drinking water should not exceed 1 mg/L.

The Occupational Health and Safety Administration (OSHA) has limited workers' exposure to an average of 0.0005 mg/m^3 chromium(VI), 0.5 mg/m^3 chromium(III), and 1.0 mg/m^3 chromium(0) for an 8-hour workday, 40-hour workweek.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2008. Toxicological Profile for Chromium (Draft for Public Comment). Atlanta, GA: U.S. Department of Public Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology and Environmental Medicine, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-800-232-4636, FAX: 770-488-4178. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html. ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmenta l quality department if you have any more questions or concerns.

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COPPER

CAS # 7440-50-8

Division of Toxicology ToxFAQs™ September 2002

This fact sheet answers the most frequently asked health questions (FAQs) about copper. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It is important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Copper is a reddish metal that occurs naturally in the environment. It also occurs naturally in plants and animals. Low levels of copper are essential for maintaining good health. High levels can cause harmful effects such as irritation of the nose, mouth and eyes, vomiting, diarrhea, stomach crumps, and nausea. Copper has been found in at least 884 of the 1,613 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is copper?

Copper is a reddish metal that occurs naturally in rocks, soil, water, and air. Copper also occurs naturally in plants and animals.

Metallic copper can be easily molded or shaped. Metallic copper can be found in the U.S. penny, electrical wiring, and some water pipes. Metallic copper is also found in mixtures (called alloys) with other metals such as brass and bronze. Copper is also found as part of other compounds forming salts. Copper salts occur naturally, but are also manufactured. The most common copper salt is copper sulfate. Most copper compounds are blue-green in color. Copper compounds are commonly used in agriculture to treat plant diseases like mildew, for water treatment and, as preservatives for wood, leather, and fabrics.

What happens to copper when it enters the environment?

❑ Copper can enter the environment from the mining of copper and other metals and from factories that make or use metallic copper or copper compounds.

❑ It can also enter the environment through domestic waste water, combustion of fossil fuels and wastes, wood production, phosphate fertilizer production, and natural sources (e.g., windblown dust from soils, volcanoes, decaying vegetation, forest fires, and sea spray).

❑ Copper in soil strongly attaches to organic material and minerals.

❑ Copper that dissolves in water becomes rapidly bound to particles suspended in the water.

❑ Copper does not typically enter groundwater.

❑ Copper carried by particles emitted from smelters and ore processing plants is carried back to the ground by gravity or in rain or snow.

❑ Copper does not break down in the environment.

How might I be exposed to copper?

❑ Breathing air, drinking water, eating food, and by skin contact with soil, water, or other copper-containing substances.

❑ Some copper in the environment can be taken up by plants and animals.

❑ Higher exposure may occur if your water is corrosive and you have copper plumbing and brass water fixtures. ❑ You may be exposed to higher amounts of copper if you drink water or swim in lakes or reservoirs recently treated with copper to control algae or receive cooling water from a power plant that may have high amounts of dissolved copper.

❑ Using some garden products (e.g., fungicides) to control plant diseases.

❑ Living near bronze and brass production facilities may expose you to higher copper levels in soil.

❑ You may breathe copper-containing dust or have skin contact if you work in the industry of mining copper or

processing the ore. You may breathe high levels if you grind or weld copper metal.

How can copper affect my health?

Copper is essential for good health, but high amounts can be harmful. Long-term exposure to copper dust can irritate your nose, mouth, and eyes, and cause headaches, dizziness, nausea, and diarrhea.

Drinking water with higher than normal levels of copper may cause vomiting, diarrhea, stomach cramps, and nausea. Intentionally high intakes of copper can cause liver and kidney damage and even death.

How likely is copper to cause cancer?

We do not know whether copper can cause cancer in humans. The EPA has determined that copper is not classifiable as to carcinogenicity.

How can copper affect children?

Exposure to high levels of copper will result in the same type of effects in children and adults. Studies in animals suggest that the young children may have more severe effects than adults; we do not know if this would also be true in humans. There is a very small percentage of infants and children who are unusually sensitive to copper.

We do not know if copper can cause birth defects or other developmental effects in humans. Studies in animals suggest that ingestion of high levels of copper may cause a decrease in fetal growth.

How can families reduce the risk of exposure to copper?

❑ The greatest potential source of copper exposure is through drinking water, especially in water that is first drawn in the morning after sitting in copper pipes and brass faucets overnight.

❑ To reduce exposure, run the water for at least 15-30 seconds before using it.

❑ If you are exposed to copper at work, you may carry copper home on your skin, clothes, or tools. You can avoid this by showering, and changing clothing before leaving work, and your work clothes should be kept separate from other clothes and laundered separately.

Is there a medical test to show whether I've been exposed to copper?

Copper is normally found in all tissues of the body, blood, urine, feces, hair, and nails. High levels of copper in these samples can show that you have been exposed to higher than normal levels of copper. Tests to measure copper levels in the body are not routinely available at the doctor's office because they require special equipment. These tests cannot tell the extent of exposure or whether you will experience harmful effects.

Has the federal government made recommendations to protect human health?

The EPA has determined that drinking water should not contain more than 1.3 milligrams of copper per liter of water (1.3 mg/L).

The Occupational Safety and Health Administration (OSHA) has set a limit of 0.1 mg per cubic meter (0.1 mg/m^3) of copper fumes (vapor generated from heating copper) and 1 mg/m^3 of copper dusts (fine metallic copper particles) and mists (aerosol of soluble copper) in workroom air during an 8-hour work shift, 40-hour workweek.

The Food and Nutrition Board of the Institute of Medicine recommends dietary allowances (RDAs) of 340 micrograms (340 µg) of copper per day for children aged 1-3 years, 440 µg/day for children aged 4-8 years, 700 µg/day for children aged 9-13 years, 890 µg/day for children aged 14-18 years, and 900 µg/day for adults.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2002. Toxicological Profile for Copper (Draft for Public Comment). Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

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ETHYLBENZENE
CAS # 100-41-4

Agency for Toxic Substances and Disease Registry ToxFAQs **June 1999**

This fact sheet answers the most frequently asked health questions (FAQs) about ethylbenzene. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Ethylbenzene is a colorless liquid found in a number of products including gasoline and paints. Breathing very high levels can cause dizziness and throat and eye irritation. Ethylbenzene has been found in at least 731 of the 1,467 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is ethylbenzene?

(Pronounced ĕthʹ əl bĕnʹ zēnʹ)

Ethylbenzene is a colorless, flammable liquid that smells like gasoline. It is found in natural products such as coal tar and petroleum and is also found in manufactured products such as inks, insecticides, and paints.

Ethylbenzene is used primarily to make another chemical, styrene. Other uses include as a solvent, in fuels, and to make other chemicals.

What happens to ethylbenzene when it enters the environment?

- Ethylbenzene moves easily into the air from water and soil.
- It takes about 3 days for ethylbenzene to be broken down in air into other chemicals.
- Ethylbenzene may be released to water from industrial discharges or leaking underground storage tanks.
- In surface water, ethylbenzene breaks down by reacting with other chemicals found naturally in water.
- In soil, it is broken down by soil bacteria.

How might I be exposed to ethylbenzene?

- Breathing air containing ethylbenzene, particularly in areas near factories or highways.
- Drinking contaminated tap water.
- Working in an industry where ethylbenzene is used or made.
- Using products containing it, such as gasoline, carpet glues, varnishes, and paints.

How can ethylbenzene affect my health?

Limited information is available on the effects of ethylbenzene on people's health. The available information shows dizziness, throat and eye irritation, tightening of the chest, and a burning sensation in the eyes of people exposed to high levels of ethylbenzene in air.

Animals studies have shown effects on the nervous system, liver, kidneys, and eyes from breathing ethylbenzene in air.

How likely is ethylbenzene to cause cancer?

The EPA has determined that ethylbenzene is not classifiable as to human carcinogenicity.

ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html

No studies in people have shown that ethylbenzene exposure can result in cancer. Two available animal studies suggest that ethylbenzene may cause tumors.

How can ethylbenzene affect children?

Children may be exposed to ethylbenzene through inhalation of consumer products, including gasoline, paints, inks, pesticides, and carpet glue. We do not know whether children are more sensitive to the effects of ethylbenzene than adults.

It is not known whether ethylbenzene can affect the development of the human fetus. Animal studies have shown that when pregnant animals were exposed to ethylbenzene in air, their babies had an increased number of birth defects.

How can families reduce the risk of exposure to ethylbenzene?

Exposure to ethylbenzene vapors from household products and newly installed carpeting can be minimized by using adequate ventilation.

Household chemicals should be stored out of reach of children to prevent accidental poisoning. Always store household chemicals in their original containers; never store them in containers children would find attractive to eat or drink from, such as old soda bottles. Gasoline should be stored in a gasoline can with a locked cap.

Sometimes older children sniff household chemicals, including ethylbenzene, in an attempt to get high. Talk with your children about the dangers of sniffing chemicals.

Is there a medical test to show whether I've been exposed to ethylbenzene?

Ethylbenzene is found in the blood, urine, breath, and some body tissues of exposed people. The most common way to test for ethylbenzene is in the urine. This test measures substances formed by the breakdown of ethylbenzene. This test needs to be done within a few hours after exposure occurs, because the substances leave the body very quickly.

These tests can show you were exposed to ethylbenzene, but cannot predict the kind of health effects that might occur.

Has the federal government made recommendations to protect human health?

The EPA has set a maximum contaminant level of 0.7 milligrams of ethylbenzene per liter of drinking water (0.7 mg/L).

The EPA requires that spills or accidental releases into the environment of 1,000 pounds or more of ethylbenzene be reported to the EPA.

The Occupational Safety and Health Administration (OSHA) has set an occupational exposure limit of 100 parts of ethylbenzene per million parts of air (100 ppm) for an 8-hour workday, 40-hour workweek.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 1999. Toxicological profile for ethylbenzene. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

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FUEL OILS

CAS # 8008-20-6, 70892-10-3, 68476-30-2, 68476-34-6, 68476-31-3

This fact sheet answers the most frequently asked health questions (FAQs) about fuel oils. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

SUMMARY: Fuel oils are liquid mixtures produced from petroleum, and their use mostly involves burning them as fuels. Drinking or breathing fuel oils may cause nausea or nervous system effects. However, exposure under normal use conditions is not likely to be harmful. Fuel oils have been found in at least 26 of the 1,430 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What are fuel oils?

(Pronounced fyo͞o′əl oilz)

Fuel oils are a variety of yellowish to light brown liquid mixtures that come from crude petroleum. Some chemicals found in fuel oils may evaporate easily, while others may more easily dissolve in water.

Fuel oils are produced by different petroleum refining processes, depending on their intended uses. Fuel oils may be used as fuel for engines, lamps, heaters, furnaces, and stoves, or as solvents.

Some commonly found fuel oils include kerosene, diesel fuel, jet fuel, range oil, and home heating oil. These fuel oils differ from one another by their hydrocarbon compositions, boiling point ranges, chemical additives, and uses.

What happens to fuel oils when they enter the environment?

- Some chemicals found in fuel oils may evaporate into the air from open containers or contaminated soil or water.
- Some chemicals found in fuel oils may dissolve in water after spills to surface waters or leaks from underground storage tanks.
- Some chemicals found in fuel oils may stick to particles in water, which will eventually cause them to settle to the bottom sediment.
- Some of the chemicals found in fuel oils may be broken down slowly in air, water, and soil by sunlight or small organisms.
- Some of the chemicals found in fuel oils may build up significantly in plants and animals.

How might I be exposed to fuel oils?

- Using a home kerosene heater or stove, or using fuel oils at work.
- Breathing air in home or building basements that has been contaminated with fuel oil vapors entering from the soil.
- Drinking or swimming in water that has been contaminated with fuel oils from a spill or a leaking underground storage tank.
- Touching soil contaminated with fuel oils.
- Using fuel oils to wash paint or grease from skin or equipment.

How can fuel oils affect my health?

Little information is available about the health effects that may be caused by fuel oils. People who use kerosene

stoves for cooking do not seem to have any health problems related to their exposure.

Breathing some fuel oils for short periods may cause nausea, eye irritation, increased blood pressure, headache, lightheadedness, loss of appetite, poor coordination, and difficulty concentrating. Breathing diesel fuel vapors for long periods may cause kidney damage and lower your blood's ability to clot.

Drinking small amounts of kerosene may cause vomiting, diarrhea, coughing, stomach swelling and cramps, drowsiness, restlessness, painful breathing, irritability, and unconsciousness. Drinking large amounts of kerosene may cause convulsions, coma, or death. Skin contact with kerosene for short periods may cause itchy, red, sore, or peeling skin.

How likely are fuel oils to cause cancer?

The International Agency for Research on Cancer (IARC) has determined that some fuel oils (heavy) may possibly cause cancer in humans, but for other fuel oils (light) there is not enough information to make a determination. IARC has also determined that occupational exposures to fuel oils during petroleum refining are probably carcinogenic in humans.

Some studies with mice have suggested that repeated contact with fuel oils may cause liver or skin cancer. However, other mouse studies have found this not to be the case. No studies are available in other animals or in people on the carcinogenic effects of fuel oils.

Is there a medical test to show whether I've been exposed to fuel oils?

There is no medical test that shows if you have been exposed to fuel oils. Tests are available to determine if some of the chemicals commonly found in fuel oils are in your blood. However, the presence of these chemicals in blood may not necessarily mean that you have been exposed to fuel oils.

Has the federal government made recommendations to protect human health?

The Occupational Safety and Health Administration (OSHA) and the Air Force Office of Safety and Health (AFOSH) have set a permissible exposure level (PEL) of 400 parts of petroleum distillates per million parts of air (400 ppm) for an 8-hour workday, 40-hour workweek.

The National Institute for Occupational Safety and Health (NIOSH) recommends that average workplace air levels not exceed 350 milligrams of petroleum distillates per cubic meter of air (350 mg/m^3) for a 40-hour workweek.

The Department of Transportation (DOT) lists fuel oils as hazardous materials and, therefore, regulates their transportation.

Glossary

Carcinogenic: Able to cause cancer.

CAS: Chemical Abstracts Service.

Evaporate: To change into a vapor or a gas.

Hydrocarbon: Any compound made up of hydrogen and carbon.

Milligram (mg): One thousandth of a gram.

ppm: Parts per million.

Sediment: Mud and debris that have settled to the bottom of a body of water.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 1995. Toxicological profile for fuel oils. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

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LEAD

CAS # 7439-92-1

Division of Toxicology and Environmental Medicine ToxFAQs™ **August 2007**

This fact sheet answers the most frequently asked health questions (FAQs) about lead. For more information, call the ATSDR Information Center at 1-800-232-4636. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It is important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to lead can happen from breathing workplace air or dust, eating contaminated foods, or drinking contaminated water. Children can be exposed from eating lead-based paint chips or playing in contaminated soil. Lead can damage the nervous system, kidneys, and reproductive system. Lead has been found in at least 1,272 of the 1,684 National Priority List sites identified by the Environmental Protection Agency (EPA).

What is lead?

Lead is a naturally occurring bluish-gray metal found in small amounts in the earth's crust. Lead can be found in all parts of our environment. Much of it comes from human activities including burning fossil fuels, mining, and manufacturing.

Lead has many different uses. It is used in the production of batteries, ammunition, metal products (solder and pipes), and devices to shield X-rays. Because of health concerns, lead from paints and ceramic products, caulking, and pipe solder has been dramatically reduced in recent years. The use of lead as an additive to gasoline was banned in 1996 in the United States.

What happens to lead when it enters the environment?

- ❏ Lead itself does not break down, but lead compounds are changed by sunlight, air, and water.
- ❏ When lead is released to the air, it may travel long distances before settling to the ground.
- ❏ Once lead falls onto soil, it usually sticks to soil particles.
- ❏ Movement of lead from soil into groundwater will depend on the type of lead compound and the characteristics of the soil.

How might I be exposed to lead?

- ❏ Eating food or drinking water that contains lead. Water pipes in some older homes may contain lead solder. Lead can leach out into the water.
- ❏ Spending time in areas where lead-based paints have been used and are deteriorating. Deteriorating lead paint can contribute to lead dust.
- ❏ Working in a job where lead is used or engaging in certain hobbies in which lead is used, such as making stained glass.
- ❏ Using health-care products or folk remedies that contain lead.

How can lead affect my health?

The effects of lead are the same whether it enters the body through breathing or swallowing. Lead can affect almost every organ and system in your body. The main target for lead toxicity is the nervous system, both in adults and children. Long-term exposure of adults can result in decreased performance in some tests that measure functions of the nervous system. It may also cause weakness in fingers, wrists, or ankles. Lead exposure also causes small increases in blood pressure, particularly in middle-aged and older people and can cause anemia. Exposure to high lead levels can severely damage the brain and kidneys in adults or children and ultimately cause death. In pregnant women, high levels of exposure to lead may cause miscarriage. High-level exposure in men can damage the organs responsible for sperm production.

How likely is lead to cause cancer?

We have no conclusive proof that lead causes cancer in humans. Kidney tumors have developed in rats and mice that had been given large doses of some kind of lead compounds. The Department of Health and Human Services

(DHHS) has determined that lead and lead compounds are reasonably anticipated to be human carcinogens and the EPA has determined that lead is a probable human carcinogen. The International Agency for Research on Cancer (IARC) has determined that inorganic lead is probably carcinogenic to humans and that there is insufficient information to determine whether organic lead compounds will cause cancer in humans.

How can lead affect children?

Small children can be exposed by eating lead-based paint chips, chewing on objects painted with lead-based paint, or swallowing house dust or soil that contains lead.

Children are more vulnerable to lead poisoning than adults. A child who swallows large amounts of lead may develop blood anemia, severe stomachache, muscle weakness, and brain damage. If a child swallows smaller amounts of lead, much less severe effects on blood and brain function may occur. Even at much lower levels of exposure, lead can affect a child's mental and physical growth.

Exposure to lead is more dangerous for young and unborn children. Unborn children can be exposed to lead through their mothers. Harmful effects include premature births, smaller babies, decreased mental ability in the infant, learning difficulties, and reduced growth in young children. These effects are more common if the mother or baby was exposed to high levels of lead. Some of these effects may persist beyond childhood.

How can families reduce the risks of exposure to lead?

❑ Avoid exposure to sources of lead.

❑ Do not allow children to chew or mouth surfaces that may have been painted with lead-based paint.

❑ If you have a water lead problem, run or flush water that has been standing overnight before drinking or cooking with it.

❑ Some types of paints and pigments that are used as make-up or hair coloring contain lead. Keep these kinds of products away from children

❑ If your home contains lead-based paint or you live in an area contaminated with lead, wash children's hands and faces often to remove lead dusts and soil, and regularly clean the house of dust and tracked in soil.

Is there a medical test to determine whether I've been exposed to lead?

A blood test is available to measure the amount of lead in your blood and to estimate the amount of your recent exposure to lead. Blood tests are commonly used to screen children for lead poisoning. Lead in teeth or bones can be measured by X-ray techniques, but these methods are not widely available. Exposure to lead also can be evaluated by measuring erythrocyte protoporphyrin (EP) in blood samples. EP is a part of red blood cells known to increase when the amount of lead in the blood is high. However, the EP level is not sensitive enough to identify children with elevated blood lead levels below about 25 micrograms per deciliter (μg/dL). These tests usually require special analytical equipment that is not available in a doctor's office. However, your doctor can draw blood samples and send them to appropriate laboratories for analysis.

Has the federal government made recommendations to protect human health?

The Centers for Disease Control and Prevention (CDC) recommends that states test children at ages 1 and 2 years. Children should be tested at ages 3–6 years if they have never been tested for lead, if they receive services from public assistance programs for the poor such as Medicaid or the Supplemental Food Program for Women, Infants, and Children, if they live in a building or frequently visit a house built before 1950; if they visit a home (house or apartment) built before 1978 that has been recently remodeled; and/or if they have a brother, sister, or playmate who has had lead poisoning. CDC considers a blood lead level of 10 μg/dL to be a level of concern for children.

EPA limits lead in drinking water to 15 μg per liter.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2007. Toxicological Profile for lead (Update). Atlanta, GA: U.S. Department of Public Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology and Environmental Medicine, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-800-232-4636, FAX: 770-488-4178. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html. ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

ATSDR
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MERCURY
CAS # 7439-97-6

This fact sheet answers the most frequently asked health questions (FAQs) about mercury. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to mercury occurs from breathing contaminated air, ingesting contaminated water and food, and having dental and medical treatments. Mercury, at high levels, may damage the brain, kidneys, and developing fetus. This chemical has been found in at least 714 of 1,467 National Priorities List sites identified by the Environmental Protection Agency.

What is mercury?

(Pronounced mŭr′kyə-rē)

Mercury is a naturally occurring metal which has several forms. The metallic mercury is a shiny, silver-white, odorless liquid. If heated, it is a colorless, odorless gas.

Mercury combines with other elements, such as chlorine, sulfur, or oxygen, to form inorganic mercury compounds or "salts," which are usually white powders or crystals. Mercury also combines with carbon to make organic mercury compounds. The most common one, methylmercury, is produced mainly by microscopic organisms in the water and soil. More mercury in the environment can increase the amounts of methylmercury that these small organisms make.

Metallic mercury is used to produce chlorine gas and caustic soda, and is also used in thermometers, dental fillings, and batteries. Mercury salts are sometimes used in skin lightening creams and as antiseptic creams and ointments.

What happens to mercury when it enters the environment?

- Inorganic mercury (metallic mercury and inorganic mercury compounds) enters the air from mining ore deposits, burning coal and waste, and from manufacturing plants.
- It enters the water or soil from natural deposits, disposal of wastes, and volcanic activity.
- Methylmercury may be formed in water and soil by small organisms called bacteria.
- Methylmercury builds up in the tissues of fish. Larger and older fish tend to have the highest levels of mercury.

How might I be exposed to mercury?

- Eating fish or shellfish contaminated with methylmercury.
- Breathing vapors in air from spills, incinerators, and industries that burn mercury-containing fuels.
- Release of mercury from dental work and medical treatments.
- Breathing contaminated workplace air or skin contact during use in the workplace (dental, health services, chemical, and other industries that use mercury).
- Practicing rituals that include mercury.

How can mercury affect my health?

The nervous system is very sensitive to all forms of mercury. Methylmercury and metallic mercury vapors are more harmful than other forms, because more mercury in these forms reaches the brain. Exposure to high levels of metallic, inorganic, or organic mercury can permanently damage the brain, kidneys, and developing fetus. Effects on brain functioning may result in irritability, shyness, tremors, changes in vision or hearing, and memory problems.

Short-term exposure to high levels of metallic mercury vapors may cause effects including lung damage, nausea,

vomiting, diarrhea, increases in blood pressure or heart rate, skin rashes, and eye irritation.

How likely is mercury to cause cancer?

There are inadequate human cancer data available for all forms of mercury. Mercuric chloride has caused increases in several types of tumors in rats and mice, and methylmercury has caused kidney tumors in male mice. The EPA has determined that mercuric chloride and methylmercury are possible human carcinogens.

How can mercury affect children?

Very young children are more sensitive to mercury than adults. Mercury in the mother's body passes to the fetus and may accumulate there. It can also can pass to a nursing infant through breast milk. However, the benefits of breast feeding may be greater than the possible adverse effects of mercury in breast milk.

Mercury's harmful effects that may be passed from the mother to the fetus include brain damage, mental retardation, incoordination, blindness, seizures, and inability to speak. Children poisoned by mercury may develop problems of their nervous and digestive systems, and kidney damage.

How can families reduce the risk of exposure to mercury?

Carefully handle and dispose of products that contain mercury, such as thermometers or fluorescent light bulbs. Do not vacuum up spilled mercury, because it will vaporize and increase exposure. If a large amount of mercury has been spilled, contact your health department. Teach children not to play with shiny, silver liquids.

Properly dispose of older medicines that contain mercury. Keep all mercury-containing medicines away from children.

Pregnant women and children should keep away from rooms where liquid mercury has been used.

Learn about wildlife and fish advisories in your area from your public health or natural resources department.

Is there a medical test to show whether I've been exposed to mercury?

Tests are available to measure mercury levels in the body. Blood or urine samples are used to test for exposure to metallic mercury and to inorganic forms of mercury. Mercury in whole blood or in scalp hair is measured to determine exposure to methylmercury. Your doctor can take samples and send them to a testing laboratory.

Has the federal government made recommendations to protect human health?

The EPA has set a limit of 2 parts of mercury per billion parts of drinking water (2 ppb).

The Food and Drug Administration (FDA) has set a maximum permissible level of 1 part of methylmercury in a million parts of seafood (1 ppm).

The Occupational Safety and Health Administration (OSHA) has set limits of 0.1 milligram of organic mercury per cubic meter of workplace air (0.1 mg/m^3) and 0.05 mg/m^3 of metallic mercury vapor for 8-hour shifts and 40-hour work weeks.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 1999. Toxicological profile for mercury. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

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NICKEL
CAS # 7440-02-0

This fact sheet answers the most frequently asked health questions (FAQs) about nickel. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. This information is important because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Nickel is a hard, silvery-white metal used to make stainless steel and other metal alloys. Skin effects are the most common effects in people who are sensitive to nickel. Workers who breathed very large amounts of nickel compounds have developed lung and nasal sinus cancers. Nickel has been found in at least 709 of the 1,430 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is nickel?

(Pronounced nĭkʹəl)

Nickel is a very abundant element. In the environment, it is found primarily combined with oxygen (oxides) or sulfur (sulfides). It is found in all soils and is emitted from volcanos.

Pure nickel is a hard, silvery-white metal that is combined with other metals to form mixtures called alloys. Some of the metals that nickel can be alloyed with are iron, copper, chromium, and zinc. These alloys are used in the making of metal coins and jewelry and in industry for making metal items.

Nickel compounds are also used for nickel plating, to color ceramics, to make some batteries, and as substances known as catalysts that increase the rate of chemical reactions. Nickel and its compounds have no characteristic odor or taste.

What happens to nickel when it enters the environment?

- Small nickel particles in the air settle to the ground or are taken out of the air in rain.
- Much of the nickel in the environment is found with soil and sediments because nickel attaches to particles that contain iron or manganese, which are often present in soil and sediments.
- Nickel does not appear to collect in fish, plants, or animals used for food.

How might I be exposed to nickel?

- By breathing air or smoking tobacco containing nickel.
- By eating food containing nickel, which is the major source of exposure for most people.
- By drinking water which contains small amounts of nickel.
- By handling coins and touching other metals containing nickel, such as jewelry.

How can nickel affect my health?

Nickel is required to maintain health in animals. A small amount of nickel is probably essential for humans, although a lack of nickel has not been found to affect the health of humans.

The most common adverse health effect of nickel in humans is an allergic reaction. People can become sensitive to nickel when jewelry or other things containing it are in direct contact with the skin. Once a person is sensitized to nickel, further contact with it will produce a reaction. The most common reaction is a skin rash at the site of contact.

Less frequently, some people who are sensitive to nickel

have asthma attacks following exposure to nickel. People who are sensitive to nickel have reactions when it is in contact with the skin, and some sensitized persons react when they eat nickel in food, drink it in water, or breathe dust containing it.

Lung effects, including chronic bronchitis and reduced lung function, have been observed in workers who breathed large amounts of nickel. Current levels of nickel in workplace air are much lower than in the past, and today few workers show symptoms of nickel exposure.

People who are not sensitive to it must eat very large amounts of nickel to show adverse health effects. Workers who accidently drank water containing very high levels of nickel (100,000 times more than in normal drinking water) had stomachaches and effects on their blood and kidneys.

Animal studies show that breathing high levels of nickel compounds may result in inflammation of the respiratory tract. Eating or drinking large amounts of nickel has been reported to cause lung disease in dogs and rats and to affect the stomach, blood, liver, kidneys, immune system, and reproduction and development in rats and mice.

How likely is nickel to cause cancer?

The Department of Health and Human Services (DHHS) has determined that nickel and certain nickel compounds may reasonably be anticipated to be carcinogens. Cancers of the lung and nasal sinus have resulted when workers breathed dust containing high levels of nickel compounds while working in nickel refineries or nickel processing plants.

When rats and mice breathed nickel compounds for a lifetime, nickel compounds that were hard to dissolve caused cancer, while a soluble nickel compound did not cause cancer.

Is there a medical test to show whether I've been exposed to nickel?

Measurements of the amount of nickel in your blood, feces, and urine can be used to estimate your exposure to nickel. These measurements are most useful if the type of nickel compound you have been exposed to is known. However, these tests cannot predict whether you will experience any health effects.

Has the federal government made recommendations to protect human health?

The EPA recommends that children drink water containing no more than 0.04 milligrams of nickel per liter of water (0.04 mg/L) for 1-10 days of exposure.

The Occupational Safety and Health Administration (OSHA) has set an occupational exposure limit of 1 milligram of nickel per cubic meter of air (l mg/m^3) for an 8-hour workday, 40-hour workweek.

Glossary

Carcinogen: A substance with the ability to cause cancer.

CAS: Chemical Abstracts Service.

Milligram (mg): One thousandth of a gram.

Sediments: Mud and debris that have settled to the bottom of a body of water.

Soluble: Dissolves in water.

References

This ToxFAQs information is taken from the 1997 Toxicological Profile for Nickel (update) produced by the Agency for Toxic Substances and Disease Registry, Public Health Service, U.S. Department of Health and Human Services, Public Health Service in Atlanta, GA.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

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POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)

Agency for Toxic Substances and Disease Registry ToxFAQs **September 1996**

This fact sheet answers the most frequently asked health questions (FAQs) about polycyclic aromatic hydrocarbons (PAHs). For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. This information is important because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

SUMMARY: Exposure to polycyclic aromatic hydrocarbons usually occurs by breathing air contaminated by wild fires or coal tar, or by eating foods that have been grilled. PAHs have been found in at least 600 of the 1,430 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What are polycyclic aromatic hydrocarbons?

(Pronounced pŏl′ĭ-sī′klĭk ăr′ə-măt′ĭk hī′drə-kar′bənz)

Polycyclic aromatic hydrocarbons (PAHs) are a group of over 100 different chemicals that are formed during the incomplete burning of coal, oil and gas, garbage, or other organic substances like tobacco or charbroiled meat. PAHs are usually found as a mixture containing two or more of these compounds, such as soot.

Some PAHs are manufactured. These pure PAHs usually exist as colorless, white, or pale yellow-green solids. PAHs are found in coal tar, crude oil, creosote, and roofing tar, but a few are used in medicines or to make dyes, plastics, and pesticides.

What happens to PAHs when they enter the environment?

- PAHs enter the air mostly as releases from volcanoes, forest fires, burning coal, and automobile exhaust.
- PAHs can occur in air attached to dust particles.
- Some PAH particles can readily evaporate into the air from soil or surface waters.
- PAHs can break down by reacting with sunlight and other chemicals in the air, over a period of days to weeks.
- PAHs enter water through discharges from industrial and wastewater treatment plants.
- Most PAHs do not dissolve easily in water. They stick to solid particles and settle to the bottoms of lakes or rivers.
- Microorganisms can break down PAHs in soil or water after a period of weeks to months.
- In soils, PAHs are most likely to stick tightly to particles; certain PAHs move through soil to contaminate underground water.
- PAH contents of plants and animals may be much higher than PAH contents of soil or water in which they live.

How might I be exposed to PAHs?

- Breathing air containing PAHs in the workplace of coking, coal-tar, and asphalt production plants; smokehouses; and municipal trash incineration facilities.
- Breathing air containing PAHs from cigarette smoke, wood smoke, vehicle exhausts, asphalt roads, or agricultural burn smoke.
- Coming in contact with air, water, or soil near hazardous waste sites.
- Eating grilled or charred meats; contaminated cereals, flour, bread, vegetables, fruits, meats; and processed or pickled foods.
- Drinking contaminated water or cow's milk.

- Nursing infants of mothers living near hazardous waste sites may be exposed to PAHs through their mother's milk.

How can PAHs affect my health?

Mice that were fed high levels of one PAH during pregnancy had difficulty reproducing and so did their offspring. These offspring also had higher rates of birth defects and lower body weights. It is not known whether these effects occur in people.

Animal studies have also shown that PAHs can cause harmful effects on the skin, body fluids, and ability to fight disease after both short- and long-term exposure. But these effects have not been seen in people.

How likely are PAHs to cause cancer?

The Department of Health and Human Services (DHHS) has determined that some PAHs may reasonably be expected to be carcinogens.

Some people who have breathed or touched mixtures of PAHs and other chemicals for long periods of time have developed cancer. Some PAHs have caused cancer in laboratory animals when they breathed air containing them (lung cancer), ingested them in food (stomach cancer), or had them applied to their skin (skin cancer).

Is there a medical test to show whether I've been exposed to PAHs?

In the body, PAHs are changed into chemicals that can attach to substances within the body. There are special tests that can detect PAHs attached to these substances in body tissues or blood. However, these tests cannot tell whether any health effects will occur or find out the extent or source of your exposure to the PAHs. The tests aren't usually available in your doctor's office because special equipment is needed to conduct them.

Has the federal government made recommendations to protect human health?

The Occupational Safety and Health Administration (OSHA) has set a limit of 0.2 milligrams of PAHs per cubic meter of air (0.2 mg/m^3). The OSHA Permissible Exposure Limit (PEL) for mineral oil mist that contains PAHs is 5 mg/m^3 averaged over an 8-hour exposure period.

The National Institute for Occupational Safety and Health (NIOSH) recommends that the average workplace air levels for coal tar products not exceed 0.1 mg/m^3 for a 10-hour workday, within a 40-hour workweek. There are other limits for workplace exposure for things that contain PAHs, such as coal, coal tar, and mineral oil.

Glossary

Carcinogen: A substance that can cause cancer.

Ingest: Take food or drink into your body.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 1995. Toxicological profile for polycyclic aromatic hydrocarbons. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

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POLYCHLORINATED BIPHENYLS

Division of Toxicology ToxFAQs™ **February 2001**

This fact sheet answers the most frequently asked health questions (FAQs) about polychlorinated biphenyls. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Polychlorinated biphenyls (PCBs) are a mixture of individual chemicals which are no longer produced in the United States, but are still found in the environment. Health effects that have been associated with exposure to PCBs include acne-like skin conditions in adults and neurobehavioral and immunological changes in children. PCBs are known to cause cancer in animals. PCBs have been found in at least 500 of the 1,598 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What are polychlorinated biphenyls?

Polychlorinated biphenyls are mixtures of up to 209 individual chlorinated compounds (known as congeners). There are no known natural sources of PCBs. PCBs are either oily liquids or solids that are colorless to light yellow. Some PCBs can exist as a vapor in air. PCBs have no known smell or taste. Many commercial PCB mixtures are known in the U.S. by the trade name Aroclor.

PCBs have been used as coolants and lubricants in transformers, capacitors, and other electrical equipment because they don't burn easily and are good insulators. The manufacture of PCBs was stopped in the U.S. in 1977 because of evidence they build up in the environment and can cause harmful health effects. Products made before 1977 that may contain PCBs include old fluorescent lighting fixtures and electrical devices containing PCB capacitors, and old microscope and hydraulic oils.

What happens to PCBs when they enter the environment?

❑ PCBs entered the air, water, and soil during their manufacture, use, and disposal; from accidental spills and leaks during their transport; and from leaks or fires in products containing PCBs.

❑ PCBs can still be released to the environment from hazardous waste sites; illegal or improper disposal of industrial wastes and consumer products; leaks from old electrical transformers containing PCBs; and burning of some wastes in incinerators.

❑ PCBs do not readily break down in the environment and thus may remain there for very long periods of time. PCBs can travel long distances in the air and be deposited in areas far away from where they were released. In water, a small amount of PCBs may remain dissolved, but most stick to organic particles and bottom sediments. PCBs also bind strongly to soil.

❑ PCBs are taken up by small organisms and fish in water. They are also taken up by other animals that eat these aquatic animals as food. PCBs accumulate in fish and marine mammals, reaching levels that may be many thousands of times higher than in water.

How might I be exposed to PCBs?

❑ Using old fluorescent lighting fixtures and electrical devices and appliances, such as television sets and refrigerators, that were made 30 or more years ago. These items may leak small amounts of PCBs into the air when they get hot during operation, and could be a source of skin exposure.

❑ Eating contaminated food. The main dietary sources of PCBs are fish (especially sportfish caught in contaminated lakes or rivers), meat, and dairy products.

❑ Breathing air near hazardous waste sites and drinking contaminated well water.

❑ In the workplace during repair and maintenance of PCB transformers; accidents, fires or spills involving transformers, fluorescent lights, and other old electrical devices; and disposal of PCB materials.

How can PCBs affect my health?

The most commonly observed health effects in people exposed to large amounts of PCBs are skin conditions such as acne and rashes. Studies in exposed workers have shown changes in blood and urine that may indicate liver damage. PCB exposures in the general population are not likely to result in skin and liver effects. Most of the studies of health effects of PCBs in the general population examined children of mothers who were exposed to PCBs.

Animals that ate food containing large amounts of PCBs for short periods of time had mild liver damage and some died. Animals that ate smaller amounts of PCBs in food over several weeks or months developed various kinds of health effects, including anemia; acne-like skin conditions; and liver, stomach, and thyroid gland injuries. Other effects

of PCBs in animals include changes in the immune system, behavioral alterations, and impaired reproduction. PCBs are not known to cause birth defects.

How likely are PCBs to cause cancer?

Few studies of workers indicate that PCBs were associated with certain kinds of cancer in humans, such as cancer of the liver and biliary tract. Rats that ate food containing high levels of PCBs for two years developed liver cancer. The Department of Health and Human Services (DHHS) has concluded that PCBs may reasonably be anticipated to be carcinogens. The EPA and the International Agency for Research on Cancer (IARC) have determined that PCBs are probably carcinogenic to humans.

How can PCBs affect children?

Women who were exposed to relatively high levels of PCBs in the workplace or ate large amounts of fish contaminated with PCBs had babies that weighed slightly less than babies from women who did not have these exposures. Babies born to women who ate PCB-contaminated fish also showed abnormal responses in tests of infant behavior. Some of these behaviors, such as problems with motor skills and a decrease in short-term memory, lasted for several years. Other studies suggest that the immune system was affected in children born to and nursed by mothers exposed to increased levels of PCBs. There are no reports of structural birth defects caused by exposure to PCBs or of health effects of PCBs in older children. The most likely way infants will be exposed to PCBs is from breast milk. Transplacental transfers of PCBs were also reported In most cases, the benefits of breast-feeding outweigh any risks from exposure to PCBs in mother's milk.

How can families reduce the risk of exposure to PCBs?

❑ You and your children may be exposed to PCBs by eating fish or wildlife caught from contaminated locations. Certain states, Native American tribes, and U.S. territories have issued advisories to warn people about PCB-contaminated fish and fish-eating wildlife. You can reduce your family's exposure to PCBs by obeying these advisories.

❑ Children should be told not play with old appliances, electrical equipment, or transformers, since they may contain PCBs.

❑ Children should be discouraged from playing in the dirt near hazardous waste sites and in areas where there was a transformer fire. Children should also be discouraged from eating dirt and putting dirty hands, toys or other objects in their mouths, and should wash hands frequently.

❑ If you are exposed to PCBs in the workplace it is possible to carry them home on your clothes, body, or tools. If this is the case, you should shower and change clothing before leaving work, and your work clothes should be kept separate from other clothes and laundered separately.

Is there a medical test to show whether I've been exposed to PCBs?

Tests exist to measure levels of PCBs in your blood, body fat, and breast milk, but these are not routinely conducted. Most people normally have low levels of PCBs in their body because nearly everyone has been environmentally exposed to PCBs. The tests can show if your PCB levels are elevated, which would indicate past exposure to above-normal levels of PCBs, but cannot determine when or how long you were exposed or whether you will develop health effects.

Has the federal government made recommendations to protect human health?

The EPA has set a limit of 0.0005 milligrams of PCBs per liter of drinking water (0.0005 mg/L). Discharges, spills or accidental releases of 1 pound or more of PCBs into the environment must be reported to the EPA. The Food and Drug Administration (FDA) requires that infant foods, eggs, milk and other dairy products, fish and shellfish, poultry and red meat contain no more than 0.2-3 parts of PCBs per million parts (0.2-3 ppm) of food. Many states have established fish and wildlife consumption advisories for PCBs.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2000. Toxicological profile for polychlorinated biphenyls (PCBs). Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop E-29, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 404-498-0093. ToxFAQs™ Internet address is http://www.atsdr.cdc.gov/toxfaq.html . ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

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TETRACHLOROETHYLENE
CAS # 127-18-4

This fact sheet answers the most frequently asked health questions (FAQs) about tetrachloroethylene. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Tetrachloroethylene is a manufactured chemical used for dry cleaning and metal degreasing. Exposure to very high concentrations of tetrachloroethylene can cause dizziness, headaches, sleepiness, confusion, nausea, difficulty in speaking and walking, unconsciousness, and death. Tetrachloroethylene has been found in at least 771 of the 1,430 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is tetrachloroethylene?

(Pronounced tĕt′rə-klôr′ ō-ĕth′ə-lēn′)

Tetrachloroethylene is a manufactured chemical that is widely used for dry cleaning of fabrics and for metal-degreasing. It is also used to make other chemicals and is used in some consumer products.

Other names for tetrachloroethylene include perchloroethylene, PCE, and tetrachloroethene. It is a nonflammable liquid at room temperature. It evaporates easily into the air and has a sharp, sweet odor. Most people can smell tetrachloroethylene when it is present in the air at a level of 1 part tetrachloroethylene per million parts of air (1 ppm) or more, although some can smell it at even lower levels.

What happens to tetrachloroethylene when it enters the environment?

- Much of the tetrachloroethylene that gets into water or soil evaporates into the air.
- Microorganisms can break down some of the tetrachloroethylene in soil or underground water.
- In the air, it is broken down by sunlight into other chemicals or brought back to the soil and water by rain.
- It does not appear to collect in fish or other animals that live in water.

How might I be exposed to tetrachloroethylene?

- When you bring clothes from the dry cleaners, they will release small amounts of tetrachloroethylene into the air.
- When you drink water containing tetrachloroethylene, you are exposed to it.

How can tetrachloroethylene affect my health?

High concentrations of tetrachloroethylene (particularly in closed, poorly ventilated areas) can cause dizziness, headache, sleepiness, confusion, nausea, difficulty in speaking and walking, unconsciousness, and death.

Irritation may result from repeated or extended skin contact with it. These symptoms occur almost entirely in work (or hobby) environments when people have been accidentally exposed to high concentrations or have intentionally used tetrachloroethylene to get a "high."

In industry, most workers are exposed to levels lower than those causing obvious nervous system effects. The health effects of breathing in air or drinking water with low levels of tetrachloroethylene are not known.

Results from some studies suggest that women who work in dry cleaning industries where exposures to tetrachloroethyl-

ene can be quite high may have more menstrual problems and spontaneous abortions than women who are not exposed. However, it is not known if tetrachloroethylene was responsible for these problems because other possible causes were not considered.

Results of animal studies, conducted with amounts much higher than those that most people are exposed to, show that tetrachloroethylene can cause liver and kidney damage. Exposure to very high levels of tetrachloroethylene can be toxic to the unborn pups of pregnant rats and mice. Changes in behavior were observed in the offspring of rats that breathed high levels of the chemical while they were pregnant.

How likely is tetrachloroethylene to cause cancer?

The Department of Health and Human Services (DHHS) has determined that tetrachloroethylene may reasonably be anticipated to be a carcinogen. Tetrachloroethylene has been shown to cause liver tumors in mice and kidney tumors in male rats.

Is there a medical test to show whether I've been exposed to tetrachloroethylene?

One way of testing for tetrachloroethylene exposure is to measure the amount of the chemical in the breath, much the same way breath-alcohol measurements are used to determine the amount of alcohol in the blood.

Because it is stored in the body's fat and slowly released into the bloodstream, tetrachloroethylene can be detected in the breath for weeks following a heavy exposure.

Tetrachloroethylene and trichloroacetic acid (TCA), a breakdown product of tetrachloroethylene, can be detected in the blood. These tests are relatively simple to perform. These tests aren't available at most doctors' offices, but can be performed at special laboratories that have the right equipment.

Because exposure to other chemicals can produce the same breakdown products in the urine and blood, the tests for breakdown products cannot determine if you have been exposed to tetrachloroethylene or the other chemicals.

Has the federal government made recommendations to protect human health?

The EPA maximum contaminant level for the amount of tetrachloroethylene that can be in drinking water is 0.005 milligrams tetrachloroethylene per liter of water (0.005 mg/L).

The Occupational Safety and Health Administration (OSHA) has set a limit of 100 ppm for an 8-hour workday over a 40-hour workweek.

The National Institute for Occupational Safety and Health (NIOSH) recommends that tetrachloroethylene be handled as a potential carcinogen and recommends that levels in workplace air should be as low as possible.

Glossary

Carcinogen: A substance with the ability to cause cancer.

CAS: Chemical Abstracts Service.

Milligram (mg): One thousandth of a gram.

Nonflammable: Will not burn.

References

This ToxFAQs information is taken from the 1997 Toxicological Profile for Tetrachloroethylene (update) produced by the Agency for Toxic Substances and Disease Registry, Public Health Service, U.S. Department of Health and Human Services, Public Health Service in Atlanta, GA.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone:1-888-422-8737, FAX: 770-488-4178. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

ATSDR
AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY

XYLENE
CAS # 1330-20-7

This fact sheet answers the most frequently asked health questions (FAQs) about xylene. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

SUMMARY: Exposure to xylene occurs in the workplace and when you use paint, gasoline, paint thinners and other products that contain it. People who breathe high levels may have dizziness, confusion, and a change in their sense of balance. This substance has been found in at least 658 of the 1,430 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is xylene?

(Pronounced zī′lēn)

Xylene is a colorless, sweet-smelling liquid that catches on fire easily. It occurs naturally in petroleum and coal tar and is formed during forest fires. You can smell xylene in air at 0.08–3.7 parts of xylene per million parts of air (ppm) and begin to taste it in water at 0.53–1.8 ppm.

Chemical industries produce xylene from petroleum. It's one of the top 30 chemicals produced in the United States in terms of volume.

Xylene is used as a solvent and in the printing, rubber, and leather industries. It is also used as a cleaning agent, a thinner for paint, and in paints and varnishes. It is found in small amounts in airplane fuel and gasoline.

What happens to xylene when it enters the environment?

- Xylene has been found in waste sites and landfills when discarded as used solvent, or in varnish, paint, or paint thinners.
- It evaporates quickly from the soil and surface water into the air.
- In the air, it is broken down by sunlight into other less harmful chemicals.
- It is broken down by microorganisms in soil and water.
- Only a small amount of it builds up in fish, shellfish, plants, and animals living in xylene-contaminated water.

How might I be exposed to xylene?

- Breathing xylene in workplace air or in automobile exhaust.
- Breathing contaminated air.
- Touching gasoline, paint, paint removers, varnish, shellac, and rust preventatives that contain it.
- Breathing cigarette smoke that has small amounts of xylene in it.
- Drinking contaminated water or breathing air near waste sites and landfills that contain xylene.
- The amount of xylene in food is likely to be low.

How can xylene affect my health?

Xylene affects the brain. High levels from exposure for short periods (14 days or less) or long periods (more than 1 year) can cause headaches, lack of muscle coordination, dizziness, confusion, and changes in one's sense of balance. Exposure of

people to high levels of xylene for short periods can also cause irritation of the skin, eyes, nose, and throat; difficulty in breathing; problems with the lungs; delayed reaction time; memory difficulties; stomach discomfort; and possibly changes in the liver and kidneys. It can cause unconsciousness and even death at very high levels.

Studies of unborn animals indicate that high concentrations of xylene may cause increased numbers of deaths, and delayed growth and development. In many instances, these same concentrations also cause damage to the mothers. We do not know if xylene harms the unborn child if the mother is exposed to low levels of xylene during pregnancy.

How likely is xylene to cause cancer?

The International Agency for Research on Cancer (IARC) has determined that xylene is not classifiable as to its carcinogenicity in humans.

Human and animal studies have not shown xylene to be carcinogenic, but these studies are not conclusive and do not provide enough information to conclude that xylene does not cause cancer.

Is there a medical test to show whether I've been exposed to xylene?

Laboratory tests can detect xylene or its breakdown products in exhaled air, blood, or urine. There is a high degree of agreement between the levels of exposure to xylene and the levels of xylene breakdown products in the urine. However, a urine sample must be provided very soon after exposure ends because xylene quickly leaves the body. These tests are not routinely available at your doctor's office.

Has the federal government made recommendations to protect human health?

The EPA has set a limit of 10 ppm of xylene in drinking water.

The EPA requires that spills or accidental releases of xylenes into the environment of 1,000 pounds or more must be reported.

The Occupational Safety and Health Administration (OSHA) has set a maximum level of 100 ppm xylene in workplace air for an 8-hour workday, 40-hour workweek.

The National Institute for Occupational Safety and Health (NIOSH) and the American Conference of Governmental Industrial Hygienists (ACGIH) also recommend exposure limits of 100 ppm in workplace air.

NIOSH has recommended that 900 ppm of xylene be considered immediately dangerous to life or health. This is the exposure level of a chemical that is likely to cause permanent health problems or death.

Glossary

Evaporate: To change from a liquid into a vapor or a gas.

Carcinogenic: Having the ability to cause cancer.

CAS: Chemical Abstracts Service.

ppm: Parts per million.

Solvent: A liquid that can dissolve other substances.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 1995. Toxicological profile for xylenes (update). Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop E-29, Atlanta, GA 30333. Phone:1-888-422-8737, FAX: 404-498-0093. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

ATSDR
AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY

ZINC
CAS # 7440-66-6

Agency for Toxic Substances and Disease Registry ToxFAQs **September 1995**

This fact sheet answers the most frequently asked health questions (FAQs) about zinc. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

SUMMARY: Exposure to high levels of zinc occurs mostly from eating food, drinking water, or breathing workplace air that is contaminated. Exposure to large amounts of zinc can be harmful. However, zinc is an essential element for our bodies, so too little zinc can also be harmful. This chemical has been found in at least 801 of 1,416 National Priorities List sites identified by the Environmental Protection Agency.

What is zinc?

(Pronounced zĭngk)

Zinc is one of the most common elements in the earth's crust. It's found in air, soil, and water, and is present in all foods. Pure zinc is a bluish-white shiny metal.

Zinc has many commercial uses as coatings to prevent rust, in dry cell batteries, and mixed with other metals to make alloys like brass and bronze. A zinc and copper alloy is used to make pennies in the United States.

Zinc combines with other elements to form zinc compounds. Common zinc compounds found at hazardous waste sites include zinc chloride, zinc oxide, zinc sulfate, and zinc sulfide. Zinc compounds are widely used in industry to make paint, rubber, dye, wood preservatives, and ointments.

What happens to zinc when it enters the environment?

- Some is released into the environment by natural processes, but most comes from activities of people like mining, steel production, coal burning, and burning of waste.
- It attaches to soil, sediments, and dust particles in the air.
- Rain and snow remove zinc dust particles from the air.
- Zinc compounds can move into the groundwater and into lakes, streams, and rivers.
- Most of the zinc in soil stays bound to soil particles.
- It builds up in fish and other organisms, but it doesn't build up in plants.

How might I be exposed to zinc?

- Ingesting small amounts present in your food and water.
- Drinking contaminated water near manufacturing or waste sites.
- Drinking contaminated water or a beverage that has been stored in metal containers or flows through pipes that have been coated with zinc to resist rust.
- Eating too many dietary supplements that contain zinc.
- Breathing zinc particles in the air at manufacturing sites.

How can zinc affect my health?

Zinc is an essential element in our diet. **Too** little zinc can cause health problems, but too much zinc is also harmful.

The recommended dietary allowance (RDA) for zinc is 15 milligrams a day for men (15 mg/day); 12 mg/day for women; 10 mg/day for children; and 5 mg/day for infants. Not enough zinc in your diet can result in a loss of appetite, a decreased sense of taste and smell, slow wound healing and

skin sores, or a damaged immune system. Young men who don't get enough zinc may have poorly developed sex organs and slow growth. If a pregnant woman doesn't get enough zinc, her babies may have growth retardation.

Too much zinc, however, can also be damaging to your health. Harmful health effects generally begin at levels from 10-15 times the RDA (in the 100 to 250 mg/day range). Eating large amounts of zinc, even for a short time, can cause stomach cramps, nausea, and vomiting. Taken longer, it can cause anemia, pancreas damage, and lower levels of high density lipoprotein cholesterol (the good form of cholesterol).

Breathing large amounts of zinc (as dust or fumes) can cause a specific short-term disease called metal fume fever. This is believed to be an immune response affecting the lungs and body temperature. We do not know the long-term effects of breathing high levels of zinc.

It is not known if high levels of zinc affect human reproduction or cause birth defects. Rats that were fed large amounts of zinc became infertile or had smaller babies. Irritation was also observed on the skin of rabbits, guinea pigs, and mice when exposed to some zinc compounds. Skin irritation will probably occur in people.

How likely is zinc to cause cancer?

The Department of Health and Human Services, the International Agency for Research on Cancer, and the Environmental Protection Agency (EPA) have not classified zinc for carcinogenicity.

Is there a medical test to show whether I've been exposed to zinc?

Zinc can be measured in your blood or feces. This can tell you how much zinc you have been exposed to. Zinc can also be measured in urine, saliva, and hair. The amount of zinc in your hair tells us something about long-term exposure, but the relationship between levels in your hair and the amount that you were exposed to is not clear. These tests are not routinely performed at doctors' offices, but your doctor can take samples and send them to a testing laboratory.

Has the federal government made recommendations to protect human health?

EPA recommends that there be no more than 5 parts of zinc in 1 million parts of drinking water (5 ppm) because of taste. EPA also requires that releases of more than 1,000 (or in some cases 5,000) pounds of zinc or its compounds into the environment be reported.

The Occupational Safety and Health Administration (OSHA) has set a maximum concentration limit for zinc chloride fumes in workplace air of 1 milligram of zinc per cubic meter of air (1 mg/m^3) for an 8-hour workday over a 40-hour work week and 5 mg/m^3 for zinc oxide fumes. The National Institute for Occupational Safety and Health (NIOSH) has set the same standards for up to a 10-hour workday over a 40-hour workweek.

Glossary

Anemia: A decreased ability of the blood to transport oxygen.

Carcinogenicity: Ability to cause cancer.

Milligram (mg): One thousandth of a gram.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 1994. Toxicological profile for zinc. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone:1-888-422-8737, FAX: 770-488-4178. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

CONSTRUCTION HEALTH AND SAFETY PLAN
APPENDIX B

REPORT FORMS

WEEKLY SAFETY REPORT FORM

Week Ending: _____ Project Name/Number: _____

Report Date: _____ Project Manager Name: _____

Summary of any violations of procedures occurring that week:

_____

_____

_____

Summary of any job related injuries, illnesses, or near misses that week:

_____

_____

_____

_____

Summary of air monitoring data that week (include and sample analyses, action levels exceeded, and actions taken):

_____

_____

_____

Comments:

_____

_____

_____

Name: _____ Company: _____

Signature: _____ Title: _____

INCIDENT REPORT FORM

Date of Report: _____

Injured: _____

Employer: _____

Site: _____ Site Location: _____

Report Prepared By: _____ _____
Signature Title

ACCIDENT/INCIDENT CATEGORY (check all that applies)

___Injury	___ Illness	___ Near Miss
__ Site Damage	___ Fire	___ Chemical Exposure
__ On-site Equipment	___ Motor Vehicle	___ Electrical
__ Mechanical	___ Spill	___ Other

DATE AND TIME OF ACCIDENT/INCIDENT: Narrative report of Accident/Incident: Identify: 1) actions leading to or contributing to the accident/incident; 2) the accident/incident occurrence; and 3) actions following the accident/incident.

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

WITNESS TO ACCIDENT/INCIDENT:

Name:	_____	Company:	_____
Address:	_____	Address:	_____
Phone No.:	_____	Phone No.:	_____
Name:	_____	Company:	_____
Address:	_____	Address:	_____
Phone No.:	_____	Phone No.:	_____

INJURED - ILL:

Name: _____ SSN: _____

Address: _____ Age: _____

Length of Service: _____ Time on Present Job: _____

Time/Classification: _____

SEVERITY OF INJURY OR ILLNESS:

____ Disabling ___ Non-disabling ___ Fatality

____ Medical Treatment ___ First Aid Only

ESTIMATED NUMBER OF DAYS AWAY FROM JOB: _____

NATURE OF INJURY OR ILLNESS: _____

_____

_____

_____

CLASSIFICATION OF INJURY:

__ Abrasions _____ Dislocations ____ Punctures

__ Bites _____ Faint/Dizziness ____ Radiation Burns

__ Blisters _____ Fractures ____ Respiratory Allergy

__ Bruises _____ Frostbite ____ Sprains

__ Chemical Burns _____ Heat Burns ____ Toxic Resp. Exposure

__ Cold Exposure _____ Heat Exhaustion ____ Toxic Ingestion

__ Concussion _____ Heat Stroke ____ Dermal Allergy

__ Lacerations

Part of Body Affected: _____

Degree of Disability: _____

Date Medical Care was Received: _____

Where Medical Care was Received: _____

Address (if off-site): _____

(If two or more injuries, record on separate sheets)

SITE DAMAGE:

Description of Damage: _____

_____

Cost of Damage: $ _____

ACCIDENT/INCIDENT LOCATION: _____

ACCIDENT/INCIDENT ANALYSIS: Causative agent most directly related to accident/incident (Object, substance, material, machinery, equipment, conditions)

_____

_____

_____

_____

Was weather a factor?: _____

_____

Unsafe mechanical/physical/environmental condition at time of accident/incident (Be specific):

_____

_____

_____

Personal factors (Attitude, knowledge or skill, reaction time, fatigue):

_____

_____

ON-SITE ACCIDENTS/INCIDENTS:

Level of personal protection equipment required in Site Safety Plan:

_____

_____

Modifications:

_____

Was injured using required equipment?:

_____

_____

If not, how did actual equipment use differ from plan?:

_____

_____

ACTION TAKEN TO PREVENT RECURRENCE: (Be specific. What has or will be done? When will it be done? Who is the responsible party to insure that the correction is made?

ACCIDENT/INCIDENT REPORT REVIEWED BY:

SSO Name Printed SSO Signature

OTHERS PARTICIPATING IN INVESTIGATION:

Signature Title

Signature Title

Signature Title

ACCIDENT/INCIDENT FOLLOW-UP: Date: _____

Outcome of accident/incident: _____

Physician's recommendations: _____

Date injured returned to work: _____
Follow-up performed by:

Signature Title

ATTACH ANY ADDITIONAL INFORMATION TO THIS FORM

CONSTRUCTION HEALTH AND SAFETY PLAN
APPENDIX C

EMERGENCY HAND SIGNALS

EMERGENCY SIGNALS

In most cases, field personnel will carry portable radios for communication. If this is the case, a transmission that indicates an emergency will take priority over all other transmissions. All other site radios will yield the frequency to the emergency transmissions.

Where radio communications is not available, the following air-horn and/or hand signals will be used:

EMERGENCY HAND SIGNALS

OUT OF AIR, CAN'T BREATHE!



Hand gripping throat

LEAVE AREA IMMEDIATELY, NO DEBATE!

(No Picture) Grip partner's wrist or place both hands around waist

NEED ASSISTANCE!



Hands on top of head

OKAY! – I'M ALL RIGHT!

- I UNDERSTAND!



Thumbs up

NO! - NEGATIVE!



Thumbs down

PHASE II ENVIRONMENTAL SITE INVESTIGATION REPORT

for

31-33 Wave Street
Staten Island, New York

Prepared For:

BFC 475 Residential LLC
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Brooklyn, NY 11201

Prepared By:

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Michael D. Burke, PG, CHMM
Principal/Vice President

May 15, 2020
Langan Project No. 170610601

LANGAN

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Figure 2 Sample Location Map

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Appendix B Geophysical Survey Report
Appendix C Soil Boring Logs
Appendix D Well Construction and Groundwater Sampling Logs
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1.0 INTRODUCTION

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) prepared this Phase II Environmental Site Investigation (ESI) report on behalf of BFC 475 Residential LLC for the properties located at 31-33 Wave Street in the Stapleton Heights neighborhood of Staten Island, New York (the site). The Phase II ESI was conducted in support of due diligence to investigate the recognized environmental conditions (RECs) identified in Langan's March 20, 2020 Phase I Environmental Site Assessment (ESA) for the 475 Bay Street and 31-33 Wave Street properties.

The Phase II ESI included completion of a geophysical survey, advancement of soil borings, installation of permanent groundwater monitoring wells and soil and sub-slab vapor probes, and collection and laboratory analysis of soil, groundwater, soil vapor, sub-slab vapor and indoor air samples. The Phase II ESI field work was completed on April 28, 29, and 30, 2020.

This report is organized as follows:

- Section 2.0: Describes the site background
- Section 3.0: Presents the Phase II ESI methodology
- Section 4.0: Presents the findings of the Phase II ESI
- Section 5.0: Presents conclusions based on the findings
- Section 6.0: Presents recommendations based on the conclusions

2.0 BACKGROUND

2.1 Site Location and Description

The site is located at 31-33 Wave Street in the Stapleton Heights neighborhood of Staten Island, New York, and is identified on the Borough of Staten Island Tax Map as Block 488, Lots 157, 162 and 164. The 6,150-square foot site is located at the southeastern part of the city block bound by Baltic Street to the north, Murray Hulbert Avenue to the east, Wave Street to the south, and Bay Street to the west. Lot 164 is developed with a vacant one-story slab-on-grade building formerly operated as an auto repair and detailing shop. Lots 157 and 162 are asphalt-paved parking lots.

According to the survey drawings prepared by Meridian Layout Inc., dated February 12, 2020, the site elevation ranges from about elevation (el.) 8.76 to el. 6.94[1], and slopes gently east toward The Narrows. The site is located within an urban area characterized by commercial, industrial, residential buildings and parkland. A New York City Transit (NYCT) elevated Staten Island Rail structure runs parallel to the eastern boundary of the site. A Site Location Map is included as Figure 1.

2.2 Proposed Development

The proposed redevelopment project consists of a new 3-story community facility spanning Lots 157, 162 and 164, which will adjoin a 12-story residential building being developed at 475 Bay Street. The development would require excavation to depths of about 5 feet below sidewalk grade to accommodate foundation elements.

2.3 Recognized Environmental Conditions

Langan's March 20, 2020 Phase I ESA identified the following Recognized Environmental Conditions (RECs) for the 31-33 Wave Street properties:

REC 1 – Historic Site Use

Historical operations at the site include auto painting (1937 to 1950), a truck shop (1937 to 1950), auto repair (1934; 1977 to 2019), a gravel and sand company with a gasoline tank (1950 to 1972), used auto sales (1968; 1977 to 1990), unidentified manufacturing (1981 to 1988) and ironworks (1984). Additionally, Lot 164 is identified in the Solid Waste/Landfill (SW/LF) database described as a car dismantling facility. Historical uses of the site may have resulted in releases of petroleum

[1] All elevations shown refer to North American Vertical Datum of 1988 (NAVD88).

products, solvents, chemicals, and/or other hazardous substances that may have affected soil, groundwater, or soil vapor beneath the site.

REC 2 – Potential Former Hydraulic Lift Filled with Liquid

Three rectangular pits filled with water were observed in the former auto repair building located on Lot 164. The pits appeared to be lined with concrete. One pit measured about 15 x 8 x 3 feet and the remaining two measured about 3 x 3 x 3 feet. The pits appear to be remnants of former hydraulic lifts and suspected globules of free product were observed floating on the surface of the water. Although the pits appeared to be lined with concrete the condition of the pits could not be inspected.

REC 3 – Historical Use of the Adjoining and Surrounding Properties

Historical use of the adjoining and surrounding properties include a lumber yard (1898 to 1917), a gasoline service station (1929 to 1934), a coal yard (1934 to 1950), a dry cleaning company with historical generation of hazardous waste and petroleum bulk storage (1934 to present), a filling station with three gasoline tanks (1928 to 1996), a gasoline filling station with petroleum bulk storage and an oil shed (1937 to 1950), a bus garage (1937) and a factory (1937 to 1962). Historical operations on adjoining and surrounding properties may have resulted in releases of petroleum products, solvents, chemicals, and/or other hazardous substances that may have affected groundwater or soil vapor beneath the site.

2.4 Soil and Geology

Based on a review of "Geologic and Geohydrologic Reconnaissance of Staten Island, New York" prepared by Julian Soren for the USGS and dated 1988, the site is underlain by surficial deposits comprised of ground moraine, which is composed of reddish-brown clayey till derived from the Upper Triassic and Lower Jurassic shale and sandstone. Based on "Plate 2 Bedrock Geology of Staten Island and Configuration of Bedrock Surface", prepared by United Stated Department of the Interior Geological Survey in cooperation with the NYSDEC and dated 1986, the ground moraine is underlain by Staten Island Serpentine at the site. Bedrock is anticipated beneath the ground moraine layer at depths of about 30 to 50 feet bgs.

2.5 Hydrogeology

Groundwater flow is typically topographically influenced, as shallow groundwater tends to originate in areas of topographic highs and flow 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 vegetative 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. Groundwater is inferred to flow to the east towards the Narrows, following the topography and the historical stream illustrated in the 1865 Topographical Atlas of City of New York Including Annexed Territory (Viele Map) created by Egert L. Viele. Groundwater was encountered at depths ranging from 4 to 7 feet bgs

Groundwater in New York City is not used as a potable water source. Potable water is provided to the site by New York City and is obtained from surface impoundments in the Croton, Catskill, and Delaware watersheds. According to the current Federal Emergency Management Agency (FEMA) Effective Flood Insurance Rate Map (FIRM) dated September 5, 2007, the site is located in Zone AE, which is within an area inundated by 1% annual chance of flooding and Zone B, which is within an area inundated by a 0.2% annual chance of flooding.

3.0 FIELD INVESTIGATION

The Phase II ESI included completion of a geophysical survey, advancement of six environmental soil borings, installation of three permanent groundwater monitoring wells, installation of two soil vapor probes, two sub-slab probes, and collection of six soil, three groundwater, two soil vapor, two sub-slab vapor, an ambient air sample and two indoor air samples for laboratory analysis. The Phase II ESI field work was completed from April 28 through 30, 2020. A sample summary is included in Table 1 and sample locations are shown on Figure 2. Photographs taken during the field investigation are included in Appendix A.

3.1 Geophysical Survey

Prior to intrusive sampling, NOVA Geophysical & Environmental, Inc. (NOVA), of Douglaston, New York, conducted a geophysical survey on April 28, 2020. NOVA used ground penetrating radar (GPR) and electromagnetic detection equipment to identify potential underground storage tanks (USTs) and locate buried utilities and anomalies across the site. Boring locations were cleared of any subsurface structures or utilities.

A copy of the geophysical survey report is included in Appendix B.

3.2 Soil Investigation

Soil borings SB04 through SB09[1] were advanced by AARCO Environmental Services Corp. (AARCO) of Lindenhurst, New York. A Langan field engineer was on-site to document field observations and collect soil samples. Soil borings SB08 and SB09 were advanced using a Geoprobe® 420M limited access drill rig and soil borings SB04 through SB07 were advanced using a 7822DT track mounted Geoprobe® direct push drill rig to depths ranging from 15 to 20 feet bgs. Soil samples were collected continuously into 4-foot and 5-foot Macro-Core® sample barrels lined with dedicated acetate sleeves.

Soil samples retrieved from borings were visually classified for soil type, grain size, texture, and moisture content. Each sample was screened for visual, olfactory, and instrumental evidence of a chemical or petroleum release. Instrumental screening for the presence of organic vapors was performed using a photoionization detector (PID) equipped with a 10.6 electron volt (eV) lamp. Eighteen soil samples including two quality assurance/ quality control (QA/QC) samples were collected from borings SB04 through SB09 for laboratory analysis. Samples were collected from the upper two-foot interval; the interval exhibiting the greatest degree of impacts, the historic fill and native soil interface or from the groundwater interface; and from the apparent native soil

[1] These borings were installed as part of a larger Remedial Investigation of this site and the adjacent 475 Bay Street site.

interval beneath observed impacts or termination depth of the boring. Samples submitted for volatile organic compound (VOC) analysis were collected directly from the acetate liner into laboratory-supplied Terra Core® soil samplers. The remaining sample volume was homogenized and placed in laboratory-supplied containers for additional analyses. The sample containers were labeled, placed in a laboratory-supplied cooler, and packed on ice (to attempt to maintain a temperature of about 4°C). The samples were picked up and delivered via courier service to York Analytical Laboratories Inc. (York) under standard chain-of-custody protocol. York is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory located in Stratford, Connecticut.

Soil samples were analyzed for Part 375 List and Target Compound List (TCL) VOCs by United States Environmental Protection Agency (USEPA) Method 8260C, semivolatile organic compounds (SVOCs) by USEPA Method 8270D, pesticides and herbicides by USEPA Method 8081B, polychlorinated biphenyls (PCBs) by USEPA Method 8082A, and Part 375/Target Analyte List (TAL) metals including hexavalent and trivalent chromium by USEPA Methods 6010C.

Following sample collection, boreholes were backfilled to grade with soil cuttings and the ground surface was restored. Soil boring logs are included in Appendix C, soil boring locations are shown on Figure 2, and a soil sample summary is included in Table 1.

3.3 Groundwater Investigation

Three soil borings, SB05, SB06, and SB08, were converted into permanent groundwater monitoring wells. Monitoring well MW08, was installed by inserting 10 feet of 0.01-inch slotted, one-inch diameter, Schedule-40 polyvinyl chloride (PVC) screen with attached riser piping into the boring. Monitoring wells MW05 and MW06 were installed by inserting 10 feet of 0.02-inch, two-inch diameter Schedule-40 PVC screen with attached riser piping into each boring. The screens were positioned to straddle the observed water table. The annulus of each well was filled with clean sand (Morie No. 2) to about 6-inches to one foot above the top of the screen. A hydrated bentonite well seal was installed above the filter sand in each well location and the overlying annulus was filled with grout. Each well was finished with a flush-mounted, bolt-down manhole set into a concrete collar.

Following installation, the monitoring wells were developed and sampled using a peristaltic pump. Prior to sample collection, the wells were purged and attempts were made to stabilize groundwater parameters (pH, conductivity, turbidity, dissolved oxygen, temperature, and oxidation-reduction potential), with turbidity measurements below 50 Nephelometric Turbidity Units (NTU). Stability was not achieved in monitoring well MW08 due to poor recharge. The monitoring well construction log and groundwater sampling log are included as Appendix D.

The groundwater samples were collected into laboratory-supplied glassware and delivered via courier service to York. Groundwater samples were analyzed for TCL VOCs by EPA Method 8260, TCL SVOCs by EPA Method 8270, PCBs by EPA Method 8082, pesticides by USEPA Method 8081B, and total and dissolved (field filtered) metals including hexavalent and trivalent chromium by EPA Methods 6010B/7471A. The groundwater monitoring well locations are shown on Figure 2 and a groundwater sample summary is included in Table 1.

3.4 Soil Vapor Investigation

AARCO installed two soil vapor points (SV04 and SV07) to depths ranging from 2 to 3 feet bgs on Lots 157 and 162 using a Geoprobe® 7822DT track mounted drill rig and two sub-slab points to a depth of two inches beneath the concrete slab of the Lot 164 building using a Geoprobe® 420M limited access drill rig. The sub-slab and soil vapor points were installed in accordance with the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Soil vapor sample points consisted of a 1-7/8-inch polyethylene implant attached to polyethylene tubing. Sub-slab sample points consisted of dedicated polyethylene tubing. The annular space around the tubing was backfilled with filter sand followed by bentonite seal at grade. Co-located indoor air samples were collected concurrently with the sub-slab vapor samples.

As a quality assurance/quality control (QA/QC) measure, an inert tracer gas (helium) was introduced into an above-grade sampling chamber before and after sampling to ensure that the soil vapor probes were properly sealed above the target sampling depth, thereby preventing infiltration of ambient air to the subsurface. Direct readings of helium of less than 10 percent prior to sampling were considered sufficient to verify a tight seal. Each soil vapor point was purged using a MultiRAE multi-gas meter at rate of 0.2 liters per minute (L/min) to evacuate a minimum of three sample tubing volumes prior to sample collection. Soil vapor and sub-slab/co-located indoor air samples were collected into laboratory-supplied, batch-certified, 6-Liter Summa® canisters calibrated for 120 or 480 minutes of sampling, respectively. For QA/QC purposes, one ambient air sample was collected about 3 feet above the floor surface during the sampling event. Summa® canisters were labeled and transported via courier to York under standard chain-of-custody protocol for analysis of VOCs by USEPA method TO-15.

Following sample collection, soil vapor implants and tubing were removed and boreholes were backfilled to grade with soil cuttings and patched at surface grade. Soil vapor probe construction and vapor sampling logs are included in Appendix E, soil and sub-slab vapor locations are shown on Figure 2, and soil and sub-slab vapor sample summary is included in Table 1.

4.0 OBSERVATIONS AND RESULTS

4.1 Geophysical Survey

NOVA's geophysical survey identified municipal water, sewer, and gas lines entering the building on Lot 164 from Wave Street. An electric line was also observed running along the northern and eastern boundary of the site. The geophysical survey did not identify any anomalies indicative of underground structures or tanks. Borings were relocated as necessary to avoid subsurface utilities. A copy of the geophysical survey report is included in Appendix B.

4.2 Subsurface Observations

Fill material, generally consisting of fine-grained sand with varying amounts of fine gravel, silt, clay, coal, coal ash, slag, and concrete, wood, and glass fragments, was identified from below surface grade to depths ranging from about 5 to 13 feet bgs. Native soil, typically consisting of fine-grained sand and silt with varying amounts of fine gravel and clay was identified beneath the fill layer to the boring termination depths, ranging from 15 to 20 feet bgs. With the exception of petroleum-like odors identified in SB04 from 14 to 16 feet bgs, evidence of petroleum-like impacts were not identified. A maximum PID reading of 8 parts per million (ppm) was observed in SB06 from a depth 5 to 7 feet bgs.

Groundwater was encountered in soil borings at depths ranging from 4 to 7 feet bgs.

4.3 Soil Sample Results

Soil sample analytical results were compared to Title 6 of the New York Codes, Rules and Regulations (NYCRR) Part 375 Unrestricted Use (UU) and Restricted Use Restricted-Residential (RURR) Soil Cleanup Objectives (SCOs). Analytes exceeding the UU and/or RURR SCOs are summarized below. SCOs are listed in parentheses. Exceedances of RURR SCOs are in bold. Soil sample analytical results are summarized in Table 2, and analytical laboratory reports are included in Appendix F.

SVOCs - The following SVOC was detected above the UU and/or RURR SCOs:

- Indeno(1,2,3-cd)pyrene – **0.559 milligrams per kilogram (mg/kg)** in SB05_0-2 (UU and RURR SCO: 0.5 mg/kg)

Pesticides - The following pesticide was detected above the UU SCOs:

- 4,4'-DDT – 0.00426 mg/kg in SB05_0-2 to 0.0099 mg/kg in SODUP01_042920 (UU SCO: 0.0033 mg/kg)

Metals - The following metals were detected above their respective UU and/or RURR SCOs:

- Barium – **442 mg/kg** in SB08_13-15 (RURR SCO: 350 mg/kg)
- Copper – 60 mg/kg in SB05_0-2 (UU SCO: 50 mg/kg)
- Lead – 66 mg/kg in SB09_13-15 to **2,080 mg/kg** in SB08_13-15 (UU SCO: 63 mg/kg; RURR SCO: 400 mg/kg)
- Mercury – 0.226 mg/kg in SB09_4-6 to **1.33 mg/kg** in SB05_0-2 (UU SCO: 0.18 mg/kg; RURR SCO: 0.81 mg/kg)
- Nickel – 69.9 mg/kg in SB09_4-6 to **325 mg/kg** in SB08_4-6 (UU SCO: 30 mg/kg; RURR 310 mg/kg)
- Selenium – 4.08 mg/kg in SB08_4-6 to 12.60 mg/kg in SB04_0-2 (UU SCO: 3.9 mg/kg)
- Trivalent Chromium – 31 mg/kg in SB08_0-2 to 39.50 mg/kg in SB09_13-15 (UU SCO: 30 mg/kg)
- Zinc – 123 mg/kg in SB08_0-2 to 291 mg/kg in SB08_13-15 (UU SCO: 109 mg/kg)

VOCs, Herbicides and PCBs

VOCs, herbicides, and PCBs were not detected at concentrations above the UU and/or RURR SCOs.

4.4 Groundwater Sample Results

Groundwater results were compared to the NYSDEC Division of Water Technical and Operation Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (SGVs) for Class GA (drinking water). Analytical results from the groundwater sample are summarized in Table 3.

VOCs, SVOCs, PCBs and pesticides were not detected at concentrations above the NYSDEC TOGS SGVs in the collected groundwater samples.

Total and dissolved metals were detected in the samples collected from MW05, MW06, and MW08 at concentrations above the SGVs and are summarized below. SGVs are listed in parentheses:

- Total Iron – 4,940 micrograms per liter (µg/L) in MW08 to 11,400 µg/L in MW06 (SGV: 300 µg/L)
- Total Lead - 184 µg/L in MW08 (SGV: 25 µg/L)
- Total Manganese – 1,730 µg/L in MW06 to 2,900 µg/L in MW05 (SGV: 300 µg/L)
- Total Sodium – 48,400 µg/L in MW06 to 90,900 µg/L in MW05 (SGV: 20,000 µg/L)
- Dissolved Iron – 5,510 µg/L in MW05 to 11,000 µg/L in MW06 (SGV: 300 µg/L)
- Dissolved Manganese – 1,700 µg/L in MW06 to 2,700 µg/L in MW05 (SGV: 300 µg/L)
- Dissolved Sodium – 47,800 µg/L in MW06 to 90,900 µg/L in MW05 (SGV: 20,000 µg/L)

4.5 Soil Vapor Sample Results

The results were evaluated using the Decision Matrices A, B and C (updated May 2017) as referenced in the 2006 NYSDOH Soil Vapor Intrusion Guidance document. The Decision Matrices present recommended actions based on the concentrations of 1,1-dichloroethene, 1,1,1-trichloroethane (TCA), cis-1,2-dichloroethene (DCE), carbon tetrachloride, methylene chloride, trichloroethene (TCE), tetrachloroethene (PCE), and vinyl chloride in soil vapor and indoor air.

Twenty-nine VOCs were detected in the soil and sub-slab vapor samples. Total VOC concentrations in soil samples ranged from 223 micrograms per cubic meter ($\mu g/m^3$) in SS08 to 307 $\mu g/m^3$ in SS09. The compounds evaluated in the NYSDOH Decision Matrices were not detected above the minimum concentrations identified in the matrices. Based on these concentrations, the NYSDOH Decision Matrix recommendations specify "no further action". Soil vapor sample analytical results are summarized in Table 4, and analytical laboratory reports are included in Appendix F.

5.0 CONCLUSIONS

The following is a summary of Phase II findings:

- Fill material, generally consisting of fine-grained sand with varying amounts of fine gravel, silt, clay, coal, coal ash, slag, and concrete, wood, and glass fragments, was identified from below surface grade to depths ranging from 5 to 13 feet bgs. Native soil, typically consisting of fine-grained sand and silt with varying amounts of fine gravel and clay was identified beneath the fill layer to the boring termination depths of 15 to 20 feet bgs.
- Groundwater was encountered at depths ranging from 4 to 7 feet bgs.
- Petroleum-like odors were apparent in SB04 from 14 to 16 feet bgs; however, laboratory testing did not identify petroleum constituents in soil or groundwater. Petroleum-like impacts were not observed in the remainder of the borings.
- SVOCs, pesticides and metals were detected at a concentrations above UU and/or RURR SCOs. Concentrations were consistent with historic fill in New York City.
- Total lead, manganese, and sodium and dissolved manganese and sodium were detected in groundwater at a concentrations exceeding TOGS SGVs. Detections of manganese and sodium are naturally-occurring and the observed concentrations are not indicative of groundwater contamination. Because dissolved lead was not identified in groundwater at concentrations greater than the SGV, detections of total lead in groundwater are likely the result of entrained sediment in groundwater derived from historic fill.
- Total VOC concentrations in soil and sub-slab vapor samples ranged from 223 µg/m^3 in SS08 to 307 µg/m^3 in SS09. The compounds evaluated in the NYSDOH Decision Matrices were either not detected or were detected and concentrations that require "no further action".

6.0 LIMITATIONS

This report was prepared expressly for BFC 475 Residential LLC for the property located at 31-33 Wave Street in Staten Island, New York, and for the objectives defined herein. Langan cannot assume responsibility for the use of this report for any property other than the specific site addressed in this report, or by any third party without specific written authorization from Langan.

The conclusions, opinions, and recommendations provided in this report are based on subsurface conditions ascertained from the analysis of a limited number of samples. Recommendations provided are contingent upon one another and no recommendation should be relied upon or considered effective independent of the others. Actual conditions encountered may differ

substantially from those presented herein and should be brought to our attention whereby we may determine how such changes may affect our conclusions, opinions, and recommendations.

TABLES

Table 1
Sample Summary
Phase II Environmental Site Investigation Report

31-33 Wave Street
Staten Island, New York
Langan Project No. 170610601

No.	Sample Location	Sample ID	Sample Date/Time	Sample Collection Depth (feet bgs)	Sampling Rationale	Sample Analyses
SOIL						
1	SB04	SB04_0-2	4/29/2020	0 to 2	Upper 2 feet of historic fill	TCL / Part 375-list of VOCs & SVOCs, Part 375 PCBs, Pesticides, and Herbicides, TAL / Part 375 Metals including cyanide and hexavalent and trivalent chromium
2		SB04_10-12	4/29/2020	14 to 16	Evidence of greatest impacts	
3		SB04_14-16	4/29/2020	18 to 20	Clean interval below impacts	
4	SB05	SB05_0-2	4/28/2020	0 to 2	Upper 2 feet of historic fill	
5		SB05_6-8	4/28/2020	6 to 8	Groundwater interface	
6		SB05_18-20	4/28/2020	18 to 20	Boring termination depth	
7	SB06	SB06_0-2	4/29/2020	0 to 2	Upper 2 feet of historic fill	
8		SB06_5-7	4/29/2020	5 to 7	Evidence of greatest impacts	
9		SB06_12-14	4/29/2020	12 to 14	Clean interval below impacts	
10	SB07	SB07_0-2	4/29/2020	0 to 2	Upper 2 feet of historic fill	
11		SB07_8-10	4/29/2020	8 to 10	Five feet below the groundwater table	
12		SB07_18-20	4/29/2020	18 to 20	Boring termination depth	
13	SB08	SB08_0-2	4/28/2020	0 to 2	Upper 2 feet of historic fill	
14		SB08_4-6	4/28/2020	4 to 6	Groundwater interface	
15		SB08_13-15	4/28/2020	13 to 15	Boring termination depth	
16	SB09	SB09_0-2	4/28/2020	0 to 2	Upper 2 feet of historic fill	
17		SB09_4-6	4/28/2020	4 to 6	Groundwater interface	
18		SB09_13-15	4/28/2020	13 to 15	Boring termination depth	
GROUNDWATER						
1	MW05	MW05_043020	4/30/2020	Center of water column	Groundwater	TCL VOCs, SVOCs, PCBs, Pesticides, and TAL Metals (total and dissolved [field filtered])
2	MW06	MW06_043020	4/30/2020			
3	MW08	MW08_043020	4/30/2020			

Table 1
Sample Summary
Phase II Environmental Site Investigation Report

31-33 Wave Street
Staten Island, New York
Langan Project No. 170610601

No.	Sample Location	Sample ID	Sample Date/Time	Sample Collection Depth (feet bgs)	Sampling Rationale	Sample Analyses
AIR						
1	SV04	SV04_043020	4/30/2020	3	Soil Vapor	TO-15 VOCs
2	SV07	SV07_043020	4/30/2020	2		
3	SS08	SS08_043020	4/30/2020	14 inches	Sub-slab	
4	SS09	SS09_043020	4/30/2020			
5	IA08	IA08_043020	4/30/2020	Breathing Height	Indoor Air (co-located with sub-slab)	
6	IA09	IA09_043020	4/30/2020			
QA/QC						
N/A	SB04	SODUP01_042920	4/29/2020	0 to 2	Duplicate	TCL / Part 375-list of VOCs & SVOCs, Part 375 PCBs, Pesticides, and Herbicides, TAL / Part 375 Metals including cyanide and hexavalent and trivalent chromium
	N/A	SOFB01_042820	4/28/2020	N/A	Field Blank	
		SOFB02_043020	4/30/2020			
	MW08	GWDUP01_043020	4/30/2020		Duplicate	TCL VOCs, SVOCs, PCBs, Pesticides, and TAL Metals (total and dissolved [field filtered])
	N/A	GWFB01_043020	4/30/2020		Field Blank	
		GWTB01_043020	4/30/2020		Trip Blank	Part 375 VOCs
		AA01_043020	4/30/2020		Ambient Air	TO-15 VOCs

Notes:
1. Sample depth intervals were determined in the field.
2. Soil samples to be analyzed for New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules and Regulations (6 NYCRR) Part 375-list compounds.
3. TBD = to be determined (in the field)
4. VOC = volatile organic compound
5. SVOC = semivolatile organic compound
6. PCB = polychlorinated biphenyl
7. N/A = Not Applicable
8. TCL = Target Compound List
9. TAL = Target Analyte List
10. QA/QC = quality assurance/quality control
11. TO-15 = United States Environmental Protection Agency (USEPA) Method TO-15

Table 2
Soil Sample Analytical Results Summary
Phase II Environmental Site Investigation

31-33 Wave Street
Staten Island, New York
Langan Project No.: 170610601

Location Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	SB04 SB04_0-2 20D0818-01 4/29/2020 0-2		SB04 SODUP01_042920 20D0818-12 4/29/2020 0-2		SB04 SB04_14-16 20D0818-03 4/29/2020 14-16		SB04 SB04_18-20 20D0818-04 4/29/2020 18-20		SB05 SB05_0-2 20D0776-04 4/28/2020 0-2		SB05 SB05_6-8 20D0776-05 4/28/2020 6-8		SB05 SB05_18-20 20D0776-06 4/28/2020 18-20		SB06 SB06_0-2 20D0818-05 4/29/2020 0-2		SB06 SB06_5-7 20D0818-06 4/29/2020 5-7		SB06 SB06_12-14 20D0818-07 4/29/2020 12-14	
Volatile Organic Compounds (mg/kg)																						
Acetone	0.05	100	0.0051	U	0.0046	U	0.0057	J	0.033		0.0051	U	0.0067	J	0.009		0.0044	U	0.02		0.0039	U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0026	U	0.0023	U	0.0018	U	0.0043	U	0.0025	U	0.0024	U	0.0022	U	0.0022	U	0.0037	U	0.0019	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	~	~	0.0026	U	0.0023	U	0.0018	U	0.0043	U	0.0025	U	0.0024	U	0.0022	U	0.0022	U	0.0037	U	0.0019	U
Semivolatile Organic Compounds (mg/kg)																						
Acenaphthene	20	100	0.0451	U	0.0458	U	0.0465	U	0.0712	U	0.0443	U	0.0471	U	0.0472	U	0.0468	U	0.0518	U	0.0482	U
Acenaphthylene	100	100	0.0451	U	0.0458	U	0.0465	U	0.0712	U	0.0834	JD	0.0471	U	0.0472	U	0.0468	U	0.0518	U	0.0482	U
Anthracene	100	100	0.0451	U	0.0458	U	0.0465	U	0.0712	U	0.077	JD	0.0471	U	0.0472	U	0.0468	U	0.0518	U	0.0482	U
Benzo(a)Anthracene	1	1	0.152	D	0.113	D	0.0465	U	0.0712	U	0.55	D	0.0471	U	0.0472	U	0.112	D	0.0518	U	0.0482	U
Benzo(a)Pyrene	1	1	0.172	D	0.12	D	0.0465	U	0.0712	U	0.637	D	0.0471	U	0.0472	U	0.104	D	0.0518	U	0.0482	U
Benzo(b)Fluoranthene	1	1	0.166	D	0.134	D	0.0465	U	0.0712	U	0.635	D	0.0471	U	0.0472	U	0.0791	JD	0.0518	U	0.0482	U
Benzo(g,h,i)Perylene	100	100	0.147	D	0.105	D	0.0465	U	0.0712	U	0.512	D	0.0471	U	0.0472	U	0.0589	JD	0.0518	U	0.0482	U
Benzo(k)Fluoranthene	0.8	3.9	0.134	D	0.118	D	0.0465	U	0.0712	U	0.553	D	0.0471	U	0.0472	U	0.0843	JD	0.0518	U	0.0482	U
Benzyl Butyl Phthalate	~	~	0.161	D	0.0789	JD	0.0465	U	0.0712	U	0.142	D	0.0471	U	0.0472	U	0.0468	U	0.0518	U	0.0482	U
Bis(2-Ethylhexyl) Phthalate	~	~	0.0841	JD	0.0458	U	0.0465	U	0.0712	U	0.0445	JD	0.0471	U	0.0472	U	0.0468	U	0.0518	U	0.0482	U
Carbazole	~	~	0.0451	U	0.0458	U	0.0465	U	0.0712	U	0.0443	U	0.0471	U	0.0472	U	0.0468	U	0.0518	U	0.0482	U
Chrysene	1	3.9	0.16	D	0.132	D	0.0465	U	0.0712	U	0.765	D	0.0471	U	0.0472	U	0.0984	D	0.0518	U	0.0482	U
Dibenz(a,h)Anthracene	0.33	0.33	0.0451	U	0.0458	U	0.0465	U	0.0712	U	0.121	D	0.0471	U	0.0472	U	0.0468	U	0.0518	U	0.0482	U
Fluoranthene	100	100	0.298	D	0.257	D	0.0465	U	0.0712	U	0.974	D	0.0471	U	0.0472	U	0.166	D	0.0518	U	0.0482	U
Fluorene	30	100	0.0451	U	0.0458	U	0.0465	U	0.0712	U	0.0443	U	0.0471	U	0.0472	U	0.0468	U	0.0518	U	0.0482	U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.139	D	0.101	D	0.0465	U	0.0712	U	**0.559**	D	0.0471	U	0.0472	U	0.0679	JD	0.0518	U	0.0482	U
Phenanthrene	100	100	0.119	D	0.138	D	0.0465	U	0.0712	U	0.278	D	0.0471	U	0.0472	U	0.0468	U	0.0518	U	0.0482	U
Pyrene	100	100	0.248	D	0.205	D	0.0465	U	0.0712	U	1.03	D	0.0471	U	0.0472	U	0.151	D	0.0518	U	0.0482	U
Pesticides (mg/kg)																						
4,4'-DDE	0.0033	8.9	0.00179	U	0.00178	U	0.00182	U	0.00281	U	0.00175	U	0.00189	U	0.00186	U	0.00183	U	0.00204	U	0.00186	U
4,4'-DDT	0.0033	7.9	**0.0073**	D	**0.0099**	D	0.00182	U	0.00281	U	**0.00426**	DP	0.00189	U	0.00186	U	0.00183	U	0.00204	U	0.00186	U
Alpha Chlordane	0.094	4.2	0.00179	U	0.00178	U	0.00182	U	0.00281	U	0.00175	U	0.00189	U	0.00186	U	0.00183	U	0.00204	U	0.00186	U
Chlordane (alpha and gamma)	~	~	0.0358	U	0.0356	U	0.0363	U	0.0562	U	0.035	U	0.0377	U	0.0371	U	0.0366	U	0.0408	U	0.0372	U
Gamma-Chlordane	~	~	0.00179	U	0.00178	U	0.00182	U	0.00281	U	0.00175	U	0.00189	U	0.00186	U	0.00183	U	0.00204	U	0.00186	U
Herbicides (mg/kg)	~	~	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Polychlorinated Biphenyls (mg/kg)																						
PCB-1260 (Aroclor 1260)	~	~	0.0181	U	0.018	U	0.0183	U	0.0284	U	0.0177	U	0.019	U	0.0187	U	0.0185	U	0.0206	U	0.0188	U
Total PCBs	0.1	1	0.0181	U	0.018	U	0.0183	U	0.0284	U	0.0177	U	0.019	U	0.0187	U	0.0185	U	0.0206	U	0.0188	U
Inorganics (mg/kg)																						
Aluminum	~	~	2,370		2,580		4,900		13,800		4,430		3,670		5,060		5,720		7,940		6,560	
Arsenic	13	16	2.97		3.28		1.68	U	6.15		6.02		1.73	U	1.7	U	1.68	U	7.02		1.74	U
Barium	350	400	124		33.6		30.4		37.8		207		33.8		32		46		69.1		39	
Cadmium	2.5	4.3	0.713		0.774		0.336	U	0.514	U	0.705		0.345	U	0.34	U	0.337	U	0.373	U	0.348	U
Calcium	~	~	40,100		40,100		945		2,290		15,100		1,230		1,190		25,900		4,820		1,030	
Chromium, Hexavalent	1	110	0.545	U	0.555	U	0.56	U	0.857	U	0.535	U	0.575	U	0.566	U	0.561	U	0.622	U	0.581	U
Chromium, Total	~	~	7.43		6.35		18.4		36.6		21.7		17.5		22		11.7		27.1		24.2	
Chromium, Trivalent	30	180	7.43		6.35		18.4		**36.6**		21.7		17.5		22		11.7		27.1		24.2	
Cobalt	~	~	2.71		2.93		8.3		13.9		7.71		8.57		8.63		5.13		17.7		12.9	
Copper	50	270	21.1		28.2		20		12.8		**60**		18.3		18.5		13.4		31.9		22.4	
Iron	~	~	5,860		7,350		11,000		23,200		15,600		11,400		12,300		8,810		24,100		13,400	
Lead	63	400	**234**		**238**		6.55		17.8		**387**		60.2		7.04		**89.9**		**274**		7.43	
Magnesium	~	~	21,800		21,700		2,850		6,460		8,280		2,750		3,700		9,190		6,660		3,240	
Manganese	1,600	2,000	100		97.9		121		255		153		120		210		101		202		231	
Mercury	0.18	0.81	**0.268**		**0.264**		0.0336	U	0.0514	U	**1.33**		**0.653**		0.034	U	0.0337	U	0.0479		0.0348	U
Nickel	30	310	23.9		24.7		**94.6**		**86.2**		**74.5**		**84.3**		**109**		29.4		**133**		**128**	
Potassium	~	~	308		279		928		1,790		686		709		887		848		747		882	
Selenium	3.9	180	**12.6**		**10.2**		2.8	U	*4.28*	U	2.68	U	2.88	U	2.83	U	2.81	U	3.11	U	2.9	U
Silver	2	180	0.545	U	0.555	U	0.56	U	0.857	U	0.535	U	0.575	U	0.566	U	1.72		0.622	U	0.581	U
Sodium	~	~	93.4		146		88.7		171		279		109		86.7		95.9		127		127	
Vanadium	~	~	13.7		15.6		17.1		36		23.6		19.1		18.4		15.1		29.2		20.5	
Zinc	109	10,000	**136**		100		22.9		51.2		**274**		84.4		21.4		50.2		62.8		23.8	
General Chemistry (%)																						
Solids, Percent	~	~	91.8		90.1		89.3		58.3		93.4		86.9		88.4		89.1		80.4		86.1	

Notes provided on Page 3.
Concentrations above Unrestricted Use SCOs are bolded.
Concentrations above Restricted Use Restricted-Residential SCOs are shaded.

Table 2
Soil Sample Analytical Results Summary
Phase II Environmental Site Investigation

31-33 Wave Street
Staten Island, New York
Langan Project No.: 170610601

Location	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	SB07		SB07		SB07		SB08		SB08		SB08		SB09		SB09		SB09	
Sample ID			SB07_0-2		SB07_8-10		SB07_18-20		SB08_0-2		SB08_4-6		SB08_13-15		SB09_0-2		SB09_4-6		SB09_13-15	
Laboratory ID			20D0818-09		20D0818-10		20D0818-11		20D0776-07		20D0776-08		20D0776-09		20D0776-01		20D0776-02		20D0776-03	
Sample Date			4/29/2020		4/29/2020		4/29/2020		4/28/2020		4/28/2020		4/28/2020		4/28/2020		4/28/2020		4/28/2020	
Sample Depth (feet bgs)			0-2		8-10		18-20		0-2		4-6		13-15		0-2		4-6		13-15	
Volatile Organic Compounds (mg/kg)																				
Acetone	0.05	100	0.0044	U	0.0047	J	0.0067	J	0.01	J	0.005	U	0.0054	U	0.0046	U	0.0037	U	0.03	
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0022	U	0.0021	U	0.0024	U	0.0027	U	0.0025	U	0.0027	U	0.0023	U	0.0018	U	0.0086	
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	~	~	0.0022	U	0.0021	U	0.0024	U	0.0027	U	0.0025	U	0.0027	U	0.0023	U	0.0018	U	0.0024	U
Semivolatile Organic Compounds (mg/kg)																				
Acenaphthene	20	100	0.0459	U	0.0477	U	0.0535	U	0.0439	U	0.0461	U	0.0601	U	0.044	U	0.0441	U	0.0469	U
Acenaphthylene	100	100	0.0459	U	0.0477	U	0.0535	U	0.0439	U	0.0461	U	0.0601	U	0.044	U	0.0441	U	0.0469	U
Anthracene	100	100	0.0459	U	0.0477	U	0.0535	U	0.0701	JD	0.0461	U	0.0601	U	0.044	U	0.0441	U	0.0469	U
Benzo(a)Anthracene	1	1	0.0459	U	0.0477	U	0.0535	U	0.249	D	0.0537	JD	0.321	D	0.0773	JD	0.0441	U	0.0469	U
Benzo(a)Pyrene	1	1	0.0549	JD	0.0477	U	0.0535	U	0.264	D	0.0581	JD	0.322	D	0.0906	D	0.0441	U	0.0469	U
Benzo(b)Fluoranthene	1	1	0.0459	U	0.0477	U	0.0535	U	0.201	D	0.0478	JD	0.326	D	0.0794	JD	0.0441	U	0.0469	U
Benzo(g,h,i)Perylene	100	100	0.0475	JD	0.0477	U	0.0535	U	0.162	D	0.0461	U	0.226	D	0.0604	JD	0.0441	U	0.0469	U
Benzo(k)Fluoranthene	0.8	3.9	0.0483	JD	0.0477	U	0.0535	U	0.186	D	0.0461	U	0.257	D	0.0625	JD	0.0441	U	0.0469	U
Benzyl Butyl Phthalate	~	~	0.169	D	0.0477	U	0.0535	U	0.0439	U	0.0461	U	0.0601	U	0.044	U	0.0441	U	0.0469	U
Bis(2-Ethylhexyl) Phthalate	~	~	0.0658	JD	0.0477	U	0.0535	U	0.24	D	0.0461	U	0.0601	U	0.044	U	0.0441	U	0.0469	U
Carbazole	~	~	0.0459	U	0.0477	U	0.0535	U	0.0439	U	0.0461	U	0.0601	U	0.044	U	0.0441	U	0.0469	U
Chrysene	1	3.9	0.0483	JD	0.0477	U	0.0535	U	0.222	D	0.05	JD	0.305	D	0.0843	JD	0.0441	U	0.0469	U
Dibenz(a,h)Anthracene	0.33	0.33	0.0459	U	0.0477	U	0.0535	U	0.0439	U	0.0461	U	0.0662	JD	0.044	U	0.0441	U	0.0469	U
Fluoranthene	100	100	0.0614	JD	0.0477	U	0.0535	U	0.522	D	0.0758	JD	0.585	D	0.162	D	0.0457	JD	0.0469	U
Fluorene	30	100	0.0459	U	0.0477	U	0.0535	U	0.0439	U	0.0461	U	0.0601	U	0.044	U	0.0441	U	0.0469	U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.0459	U	0.0477	U	0.0535	U	0.189	D	0.0461	U	0.202	D	0.0667	JD	0.0441	U	0.0469	U
Phenanthrene	100	100	0.0459	U	0.0477	U	0.0535	U	0.283	D	0.0461	U	0.244	D	0.0878	JD	0.0441	U	0.0469	U
Pyrene	100	100	0.0556	JD	0.0477	U	0.0535	U	0.457	D	0.0728	JD	0.494	D	0.139	D	0.0441	U	0.0469	U
Pesticides (mg/kg)																				
4,4'-DDE	0.0033	8.9	0.0018	U	0.00185	U	0.00211	U	0.00172	U	0.00183	U	0.00236	U	0.00173	U	0.00175	U	0.00187	U
4,4'-DDT	0.0033	7.9	0.0018	U	0.00185	U	0.00211	U	0.00172	U	0.00183	U	0.00236	U	0.00173	U	0.00175	U	0.00187	U
Alpha Chlordane	0.094	4.2	0.0018	U	0.00185	U	0.00211	U	0.00172	U	0.00183	U	0.00236	U	0.00173	U	0.00175	U	0.00187	U
Chlordane (alpha and gamma)	~	~	0.036	U	0.0369	U	0.0421	U	0.0343	U	0.0365	U	0.0471	U	0.0347	U	0.0351	U	0.0374	U
Gamma-Chlordane	~	~	0.0018	U	0.00185	U	0.00211	U	0.00172	U	0.00183	U	0.00236	U	0.00173	U	0.00175	U	0.00187	U
Herbicides (mg/kg)	~	~	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Polychlorinated Biphenyls (mg/kg)																				
PCB-1260 (Aroclor 1260)	~	~	0.0182	U	0.0186	U	0.0213	U	0.0173	U	0.0184	U	0.0238	U	0.0175	U	0.0177	U	0.0189	U
Total PCBs	0.1	1	0.0182	U	0.0186	U	0.0213	U	0.0173	U	0.0184	U	0.0238	U	0.0175	U	0.0177	U	0.0189	U
Inorganics (mg/kg)																				
Aluminum	~	~	3,740		5,660		10,000		7,770		4,070		3,910		6,170		4,400		6,110	
Arsenic	13	16	2.83		2.11		2.13		2.99		4.44		4.9		1.59	U	1.6	U	1.72	U
Barium	350	400	32.7		34.2		24.6		90.2		106		**442**		35.7		33.6		37.7	
Cadmium	2.5	4.3	0.348		0.346	U	0.388	U	0.316	U	0.334	U	0.433	U	0.317	U	0.321	U	0.345	U
Calcium	~	~	26,100		924		584		19,600		33,600		29,400		1,830		2,060		2,040	
Chromium, Hexavalent	1	110	0.55	U	0.576	U	0.647	U	0.527	U	0.557	U	0.722	U	0.529	U	0.535	U	0.574	U
Chromium, Total	~	~	7.68		24.2		24.2		31		33.6		20		17.4		15.2		39.5	
Chromium, Trivalent	30	180	7.68		24.2		24.2		**31**		**33.6**		20		17.4		15.2		**39.5**	
Cobalt	~	~	4.95		10.5		12.8		12.8		16.6		8.18		8.92		7.21		14.7	
Copper	50	270	20.6		26.3		16.5		48.1		28.8		26.5		20		21.9		19.4	
Iron	~	~	9,200		14,300		15,100		14,900		14,200		10,700		12,600		11,600		15,000	
Lead	63	400	**100**		6.88		8.63		**296**		**441**		**2,080**		13.8		29.1		**66**	
Magnesium	~	~	13,900		6,640		5,150		11,300		22,100		8,090		3,760		3,930		6,890	
Manganese	1,600	2,000	126		269		125		245		247		217		265		200		286	
Mercury	0.18	0.81	0.143		0.0346	U	0.0388	U	**0.771**		**1.28**		**0.54**		0.032		**0.226**		0.0827	
Nickel	30	310	17.7		**155**		**86.2**		**154**		**325**		**114**		**71.3**		**69.9**		**209**	
Potassium	~	~	393		829		916		1,020		856		765		907		872		745	
Selenium	3.9	180	**5.01**		2.88	U	3.23	U	2.64	U	**4.08**		3.61	U	2.64	U	2.67	U	2.87	U
Silver	2	180	0.55	U	0.576	U	0.647	U	0.527	U	0.557	U	0.722	U	0.529	U	0.535	U	0.574	U
Sodium	~	~	222		72		92.8		768		205		205		175		169		139	
Vanadium	~	~	20.3		18.6		22.1		26		14.5		18.1		17.6		17.9		22.1	
Zinc	109	10,000	**283**		24.8		39.9		**123**		**226**		**291**		28.4		30.1		24.2	
General Chemistry (%)																				
Solids, Percent	~	~	90.8		86.8		77.3		94.8		89.7		69.3		94.6		93.5		87	

Notes provided on Page 3.
Concentrations above Unrestricted Use SCOs are bolded.
Concentrations above Restricted Use Restricted-Residential SCOs are shaded.

Table 2
Soil Sample Analytical Results Summary
Phase II Environmental Site Investigation

31-33 Wave Street
Staten Island, New York
Langan Project No.: 170610601

Notes:

1. Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Unrestricted Use and Restricted Use Restricted-Residential Soil Cleanup Objectives (SCO).
2. Only detected analytes are shown in the table.
3. Detected analytical results above Unrestricted Use SCOs are bolded.
4. Detected analytical results above Restricted Use Restricted-Residential SCOs are shaded.
5. Analytical results with reporting limits (RL) above the lowest applicable criteria are italicized.
6. Sample SODUP01_042920 is a duplicate sample of SB04_0-2.
7. ~ = Regulatory limit for this analyte does not exist
8. bgs = below grade surface
9. mg/kg = milligrams per kilogram
10. % = percent
11. ND = Not detected

Qualifiers:

D = The concentration reported is a result of a diluted sample.
J = The analyte was detected above the Method Detection Limit (MDL), but below the RL; therefore, the result is an estimated concentration.
P = The relative percent difference (RPD) between the results for the two columns exceeds the method-specified criteria.
U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
B = The analyte was found in the associated analysis batch blank.

Table 3
Groundwater Sample Analytical Results Summary
Phase II Environmental Site Investigation

31-33 Wave Street
Staten Island, New York
Langan Project No.: 170610601

Location Sample ID Laboratory ID Sample Date	NYSDEC SGVs	MW05 MW05_043020 20D0850-13 4/30/2020		MW06 MW06_043020 20D0850-11 4/30/2020		MW08 MW08_043020 20D0850-12 4/30/2020		MW08 GWDUP01_043020 20D0850-14 4/30/2020	
Volatile Organic Compounds (µg/L)									
Acetone	50	1.01	J	3.86		1	U	1	U
Chloroform	7	0.2	U	0.2	U	0.57		0.58	
Methyl Ethyl Ketone (2-Butanone)	50	0.2	U	1.63		0.2	U	0.2	U
Tert-Butyl Methyl Ether	10	1.23		1.24		0.2	U	0.2	U
Tetrachloroethene (PCE)	5	0.2	U	0.2	U	0.51		0.46	J
Semivolatile Organic Compounds (µg/L)									
Bis(2-Ethylhexyl) Phthalate	5	0.541	U	1.27		0.541	U	0.541	U
Pesticides (µg/L)	~	ND		ND		ND		ND	
Herbicides (µg/L)	~	ND		ND		ND		ND	
Polychlorinated Biphenyls (µg/L)	~	ND		ND		ND		ND	
Inorganics (µg/L)									
Aluminum	~	270		55.6	U	3,250		99.6	
Antimony	3	1.11	U	1.11	U	1.63		1.66	
Antimony (Dissolved)	3	1.11	U	1.11	U	1.57		1.51	
Arsenic	25	12.5		1.68		22.2		21.1	
Arsenic (Dissolved)	25	11.7		1.71		20.7		20.2	
Barium	1,000	343		198		136		87.9	
Barium (Dissolved)	1,000	307		194		83.6		82.6	
Calcium	~	146,000		102,000		76,600		68,600	
Calcium (Dissolved)	~	138,000		99,100		65,100		64,400	
Chromium, Total	50	5.56	U	5.56	U	13.6		5.56	U
Chromium, Trivalent	~	10	U	10	U	13.6		10	U
Cobalt	~	4.73		4.44	U	4.44	U	4.44	U
Iron	300	**6,770**		**11,400**		**4,940**		278	U
Iron (Dissolved)	300	**5,510**		**11,000**		278	U	278	U
Lead	25	5.56	U	5.56	U	**184**		19.1	
Lead (Dissolved)	25	5.56	U	5.56	U	6.88		5.56	U
Magnesium	35,000	34,500		19,200		15,500		12,900	
Magnesium (Dissolved)	35,000	31,700		18,500		12,500		12,300	
Manganese	300	**2,900**		**1,730**		151		5.63	
Manganese (Dissolved)	300	**2,700**		**1,700**		36.3		40.9	
Mercury (Dissolved)	0.7	0.2	U	0.2	U	0.2844		0.2	U
Nickel	100	11.1	U	11.1	U	69.7		11.1	U
Nickel (Dissolved)	100	11.1	U	11.1	U	12.1		12.3	
Potassium	~	14,700		9,530		12,300		11,500	
Potassium (Dissolved)	~	14,400	B	9,480	B	11,800	B	11,800	B
Selenium	10	1.11	U	1.11	U	2.72		1.77	
Selenium (Dissolved)	10	1.12		1.11	U	2.6		2.48	
Sodium	20,000	**96,000**		**48,400**		**55,800**		**55,800**	
Sodium (Dissolved)	20,000	**90,900**		**47,800**		**54,200**		**54,600**	
Zinc	2,000	29.3		27.8	U	144		93.8	
Zinc (Dissolved)	2,000	27.8	U	27.8	U	50		52.1	

Notes:
1. Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water (herein collectively referenced as "NYSDEC SGVs").
2. Only detected analytes are shown in the table.
3. Detected analytical results above NYSDEC SGVs are bolded and shaded.
4. Analytical results with reporting limits (RL) above NYSDEC SGVs are italicized.
5. Sample GWDUP01_043020 is a duplicate sample of MW08_043020.
6. ~ = Regulatory limit for this analyte does not exist
7. ug/l = micrograms per liter
8. ND = Not detected

Qualifiers:
J = The analyte was detected above the Method Detection Limit (MDL), but below the RL; therefore, the result is an estimated concentration.
U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
B = The analyte was found in the associated analysis batch blank.

Table 4
Soil Vapor Sample Analytical Results Summary
Phase II Environmental Site Investigation

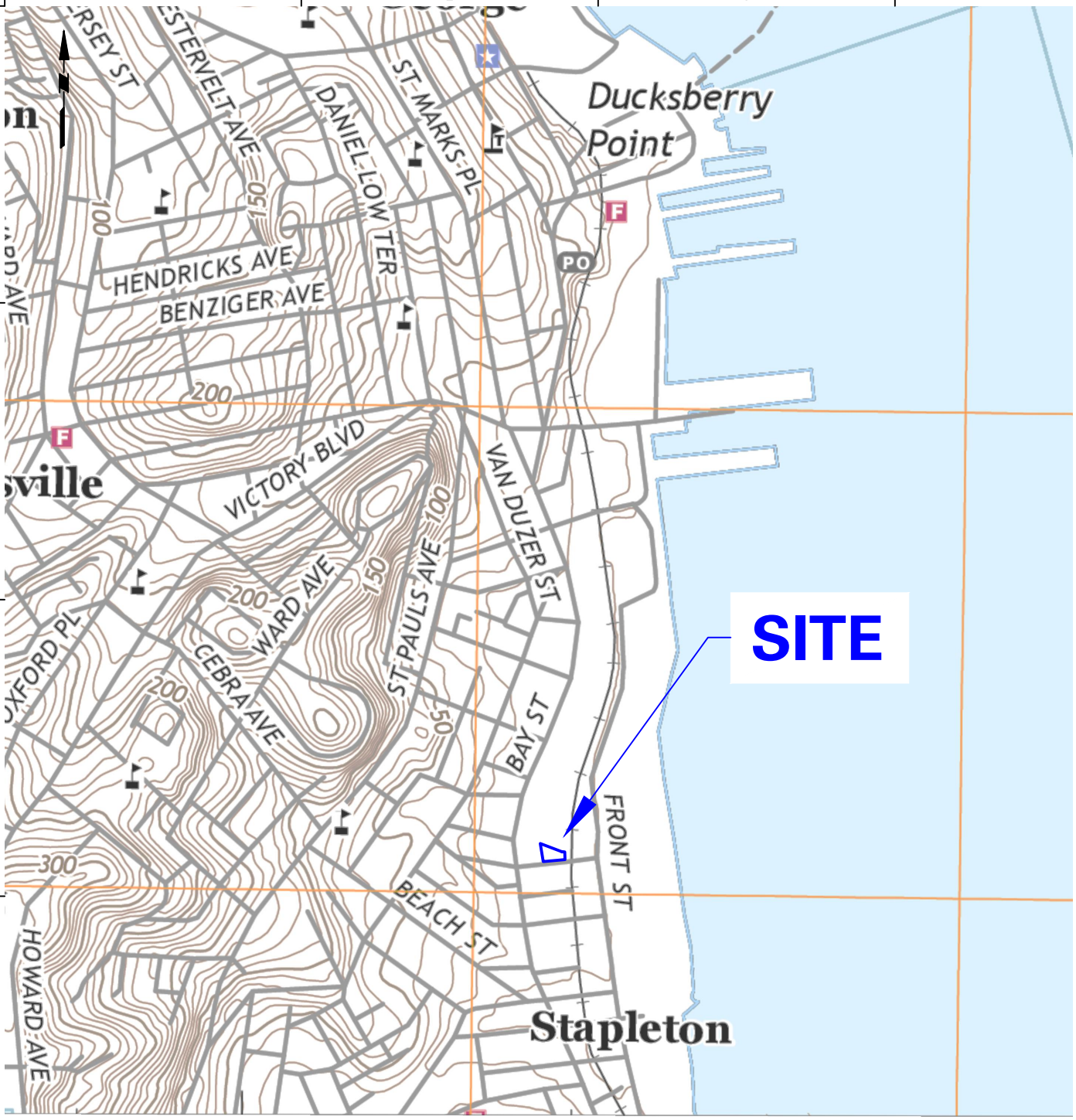
31-33 Wave Street
Staten Island, New York
Langan Project No.: 170610601

Location		AA01		IA08		SS08		IA09		SS09		SV04		SV07	
Sample ID	NYSDOH Decision	AA01_043020		IA08_043020		SS08_043020		IA09_043020		SS09_043020		SV04_043020		SV07_043020	
Laboratory ID	Matrices Minimum	20E0004-03		20E0004-06		20E0004-04		20E0004-07		20E0004-05		20E0004-01		20E0004-02	
Sample Date	Concentrations	4/30/2020		4/30/2020		4/30/2020		4/30/2020		4/30/2020		4/30/2020		4/30/2020	
Sample Type		AA		IA		SSV		IA		SSV		SV		SV	
Volatile Organic Compounds (µg/m³)															
1,2,4-Trimethylbenzene	~	0.39	U	0.55	D	9.9	D	0.47	U	17	D	20	D	28	D
1,3,5-Trimethylbenzene (Mesitylene)	~	0.39	U	0.4	U	2.6	D	0.47	U	3.8	D	8	D	12	D
1,3-Butadiene	~	0.53	U	0.53	U	1.1	U	0.63	U	1.1	U	1.1	U	1.1	D
2-Hexanone	~	0.66	U	0.66	U	1.4	U	0.78	U	1.4	U	3.5	D	2.9	D
4-Ethyltoluene	~	0.39	U	0.4	U	13	D	0.47	U	22	D	11	D	14	D
Acetone	~	6.6	D	8.4	D	6.7	D	4.2	D	4.8	D	54	D	29	D
Benzene	~	0.41	D	0.28	D	3.1	D	0.3	D	2.4	D	2.1	D	9.9	D
Carbon Disulfide	~	0.25	U	0.25	U	1.2	D	0.3	U	4.2	D	4	D	13	D
Carbon Tetrachloride	6	0.5	D	0.51	D	0.42	D	0.48	D	0.26	U	0.4	D	0.25	U
Chloroethane	~	0.21	U	0.21	U	0.44	U	0.25	U	0.44	U	0.42	U	1.1	D
Chloroform	~	0.39	U	0.39	U	9.9	D	0.47	U	0.99	D	5	D	4.2	D
Chloromethane	~	1.2	D	1	D	0.35	U	1.1	D	0.35	U	0.79	D	0.33	U
Cyclohexane	~	0.28	U	0.28	U	1.3	D	0.33	U	3.2	D	1.5	D	7.8	D
Dichlorodifluoromethane	~	1.6	D	1.9	D	2.3	D	1.9	D	2.6	D	2.5	D	2.2	D
Ethylbenzene	~	0.38	D	0.52	D	14	D	0.5	D	19	D	3	D	2.7	D
Isopropanol	~	26	D	9.8	D	4.8	D	1.6	D	4.9	D	29	D	2.3	D
M,P-Xylene	~	1.1	D	1.9	D	55	D	1.6	D	76	D	13	D	12	D
Methyl Ethyl Ketone (2-Butanone)	~	1	D	0.76	D	1.2	D	0.79	D	1.1	D	11	D	8.9	D
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	~	0.33	U	0.33	U	0.69	U	0.39	U	0.69	U	0.65	U	0.79	D
Methyl Methacrylate	~	6.1	D	0.4	D	0.69	U	0.39	U	0.69	U	15	D	0.66	U
Methylene Chloride	100	1.5	D	0.56	U	1.2	U	0.66	U	1.2	U	1.1	U	1.1	U
n-Heptane	~	0.33	U	0.36	D	6.1	D	0.39	U	16	D	8.8	D	11	D
n-Hexane	~	0.42	D	0.28	U	5.8	D	0.34	U	6.5	D	3.5	D	22	D
o-Xylene (1,2-Dimethylbenzene)	~	0.38	D	0.63	D	13	D	0.54	D	19	D	6.8	D	6.8	D
Styrene	~	0.34	D	0.34	U	1.6	D	0.41	U	2.2	D	0.68	U	0.68	U
Tert-Butyl Methyl Ether	~	0.29	U	0.29	U	0.61	U	0.34	U	10	D	0.57	U	0.58	U
Tetrachloroethene (PCE)	100	0.54	U	0.55	U	35	D	0.65	U	20	D	13	D	13	D
Toluene	~	2.2	D	4.7	D	55	D	2.7	D	50	D	8.5	D	13	D
Trichlorofluoromethane	~	1.4	D	1.3	D	1.3	D	1.3	D	1.1	D	1.7	D	2.1	D
Total VOCs	~	51.1		33		243		17		287		226		220	

Notes:
1. Co-located sub-slab vapor and indoor air sample analytical results are evaluated using the New York State Department of Health (NYSDOH) October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York Decision Matrices for Sub-Slab Vapor and Indoor Air and subsequent updates (2017) and soil vapor sample analytical results are compared to the minimum soil vapor concentrations recommending mitigation as set forth in the NYSDOH Decision Matrices.
2. Ambient air sample analytical results are shown for reference only.
3. Only detected analytes are shown in the table.
4. No analytical results are detected above the NYSDOH Decision Matrices.
5. No analytical results are detected above the minimum soil vapor concentrations recommending mitigation.
6. ~ = Regulatory limit for this analyte does not exist
7.ug/m3 = Micrograms per cubic meter
8. AA = Ambient air
9. IA = Indoor air
10. SSV = Sub-slab vapor
11. SV = Soil Vapor
12. VOCs = Volatile Organic Compounds

Qualifiers:
D = The concentration reported is a result of a diluted sample.
U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL (Reporting Limit); the value shown in the table is the RL.

FIGURES



NOTES:

1. BASE MAP IS REFERENCED FROM UNITED STATES GEOLOGICAL SURVEY (USGS) 7.5-MINUTE SERIES TOPOGRAPHICAL MAPS, JERSEY CITY QUADRANGLE, DATED 2016.

1000 0 500 1000
SCALE IN FEET

LANGAN
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.
Langan Engineering and Environmental Services, Inc.
Langan International LLC
Collectively known as Langan

Project
31-33 WAVE STREET
BLOCK No. 488, LOT Nos. 157, 162, & 164
STATEN ISLAND
RICHMOND COUNTY NEW YORK

Figure Title
SITE LOCATION MAP

Project No. 170610601	Figure No. 1
Date 02/03/2020	
Scale 1" = 1000'	
Drawn By KG / Checked By	
Submission Date	Sheet 1 of 2

© 2017 Langan

Filename: \\langan.com\data\NYC\data6\170610601\Project Data\CAD\01\SheetFiles\Environmental\Phase II\Figure 1 - Site Location Map.dwg Date: 5/5/2020 Time: 15:07 User: dpalazzolo Style Table: Langan.stb Layout: Site Location Map



LEGEND:

- APPROXIMATE SITE BOUNDARY
- SB01/MW01 — APPROXIMATE SOIL BORING AND MONITORING WELL LOCATION
- SB01/SV01 — APPROXIMATE SOIL BORING AND SOIL VAPOR SAMPLE LOCATION
- SB01/SS01/IA01 — APPROXIMATE SOIL BORING, SUB-SLAB, AND INDOOR AIR SAMPLE LOCATION
- AA01 — APPROXIMATE AMBIENT AIR SAMPLE LOCATION
- SB01/MW01/SS01/IA01 — APPROXIMATE SOIL BORING, MONITORING WELL, SUB-SLAB, AND INDOOR AIR SAMPLE LOCATION

GENERAL NOTES:

1. BASEMAP TAKEN FROM LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY, D.P.C. NEARMAP WEB PORTAL, ACCESSED ON JANUARY 29, 2020.
2. BORING LOCATIONS ARE APPROXIMATE AND ARE MEASURED OFF OF EXISTING STRUCTURES

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

50 0 25 50
SCALE IN FEET

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor
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T: 212.479.5400 F: 212.479.5444 www.langan.com

Project	31-33 WAVE STREET BLOCK No. 488, LOTS No. 157, 162, 164 STATEN ISLAND RICHMOND COUNTY NEW YORK
Figure Title	BORING LOCATION MAP
Project No.	170610601
Date	05/12/2020
Drawn By	EMS
Checked By	DP
Figure	2
Sheet	2 of 2

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Filename: \\langan.com\data\NYC\data6\170610601\Project Data\CAD\01\SheetFiles\Environmental\Phase II\Figure 2 - Boring Location Plan_as built.dwg Date: 5/15/2020 Time: 10:41 User: eburgess Style Table: Langan.stb Layout: ANSIB-BL (1)

APPENDIX A
SITE PHOTOGRAPHS

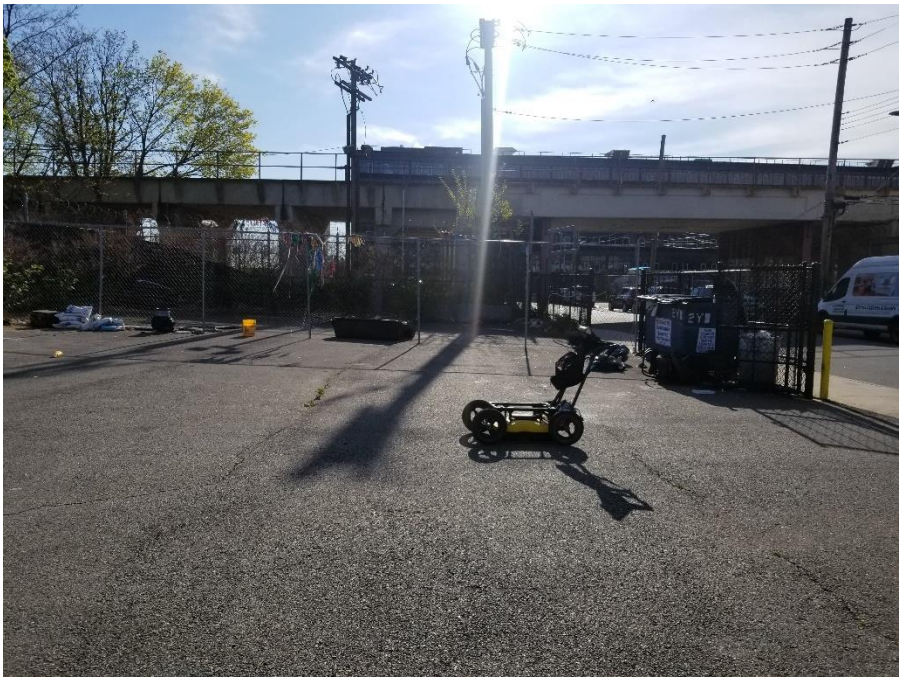


Photo 1: View of NOVA Geophysical surveying the site with ground penetrating radar (GPR). (facing east)

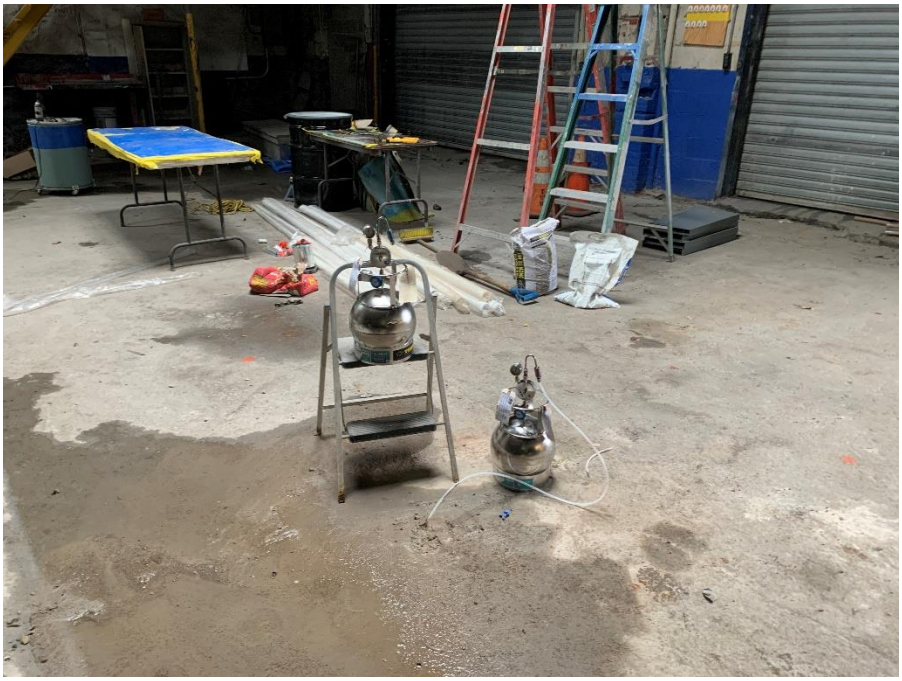


Photo 2: View of sub-slab vapor sample collection in the vacant repair shop.



Photo 3: View of soil from soil boring SB05.



Photo 4: View of soil from soil boring SB07.



Photo 4: View of Langan collecting a groundwater sample from monitoring well MW05.



Photo 5: View of AARCO drilling soil boring SB11 (facing southwest)



Photo 6: View of AARCO installing a soil vapor point SV11.

APPENDIX B
GEOPHYSICAL SURVEY REPORT

GEOPHYSICAL ENGINEERING SURVEY REPORT

Commercial Property
475 Bay Street,
Staten Island, New York 10304

NOVA PROJECT NUMBER:
20-1735

DATED:
May 6, 2020

PREPARED FOR:

LANGAN

21 Penn Plaza
360 West 31st Street, 8th Floor
New York, New York 10001-2727

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

May 6, 2020

Dina Palazzolo
Senior Staff Scientist
LANGAN
21 Penn Plaza
360 West 31st Street, 8th Floor
New York, New York 10001-2727
P: 212.479.5499 x5618 | E: dapalazzolo@langan.com

Re: Geophysical Engineering Survey (GES) Report
Commercial Property
475 Bay Street,
Staten Island, New York 10304

Dear Ms. Palazzolo,

Nova Geophysical Services (NOVA) is pleased to provide the findings of the geophysical engineering survey (GES) at the above referenced project site: 475 Bay Street, Staten Island, New York 10304 (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 on April 28th, 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 transduce 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

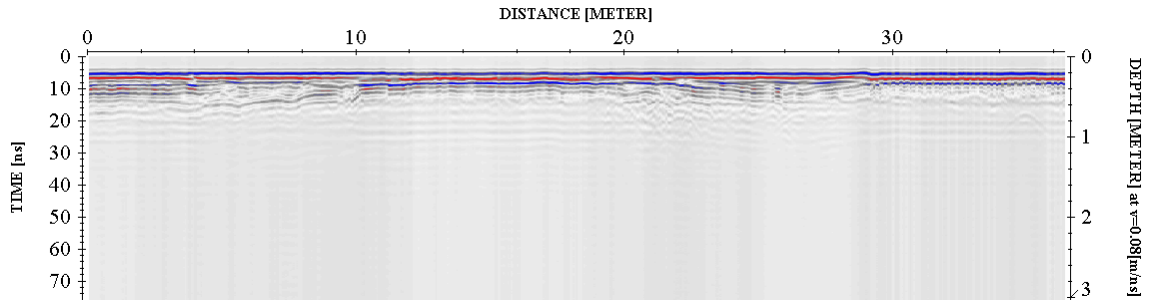
The project site was screened using GPR to search the specified area and inspected for reflections, which could be indicative of substructures and utilities within the subsurface. An EM utility locator was used to help determine the locations of utilities within the survey area.

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.

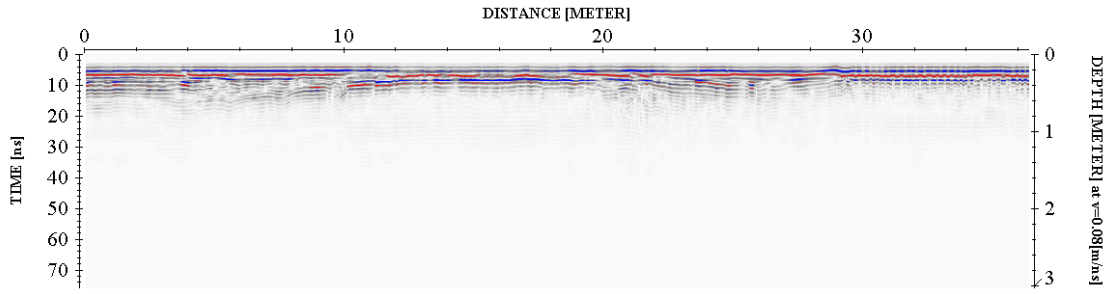
DATA PROCESSING

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.

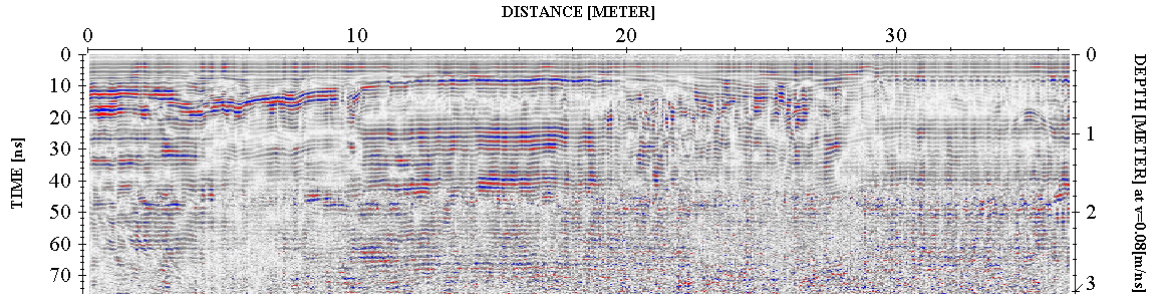
Step 1. Import Raw RAMAC data to standard processing format



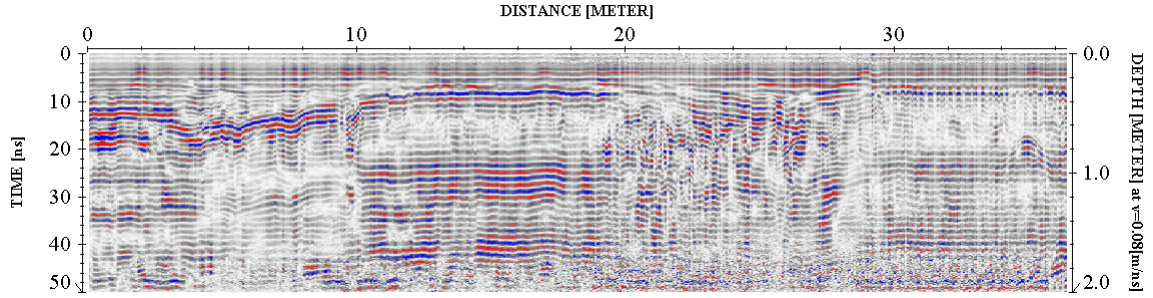
Step 2. Remove instrument noise *(dewow)*



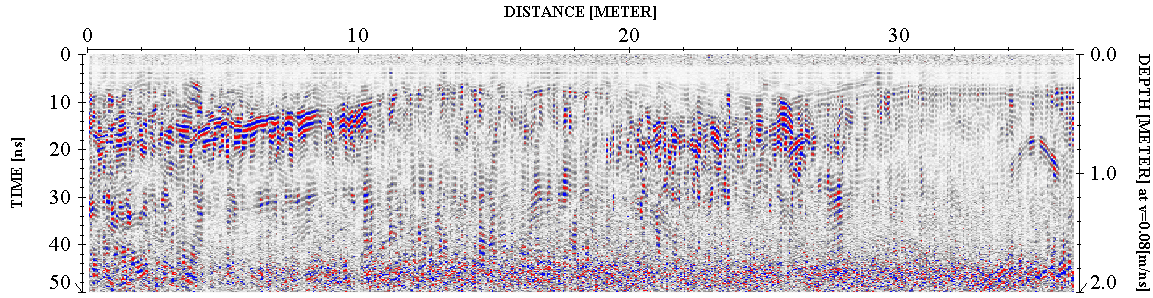
Step 3. Correct for attenuation losses *(energy decay function)*



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: Clear

Temperature: 50° F

Surface: Concrete, Asphalt, Pea Stone

Limitations: The geophysical noise level at the site was high due to being located in an urban environment and reinforced concrete slabs. Additionally, large portions of the site were covered with large, immobile objects. Limiting the coverage of the GPR survey.

RESULTS

The results of the geophysical engineering survey (GES) identified the following at the project site:

- Anomalies resembling potential subsurface utilities (such as sewer, water, gas and electric) were identified within the survey area. Their approximate locations are shown in the survey plan.
- No large geophysical anomalies resembling a potential underground storage tank were identified during the GES.
- 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** 475 Bay Street, Staten Island, New York 10304
CLIENT:	Langan
DATE:	April 28th, 2020
AUTH:	Chris Steinley

LEGEND



NOVA Geophysical Services

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Douglaston, New York 11362
Phone (347) 556-7787 * Fax (718) 261-1527
www.novagsi.com

SURVEY PLAN

SITE:	**Commercial Site** 475 Bay Street, Staten Island, New York 10304
CLIENT:	Langan
DATE:	April 28th, 2020
AUTH:	Chris Steinley

LEGEND

- Survey Area
- Electric
- Sewer
- Water
- Gas

GEOPHYSICAL IMAGES

Commercial Site
475 Bay Street,
Staten Island, New York 10304
April 28th, 2020



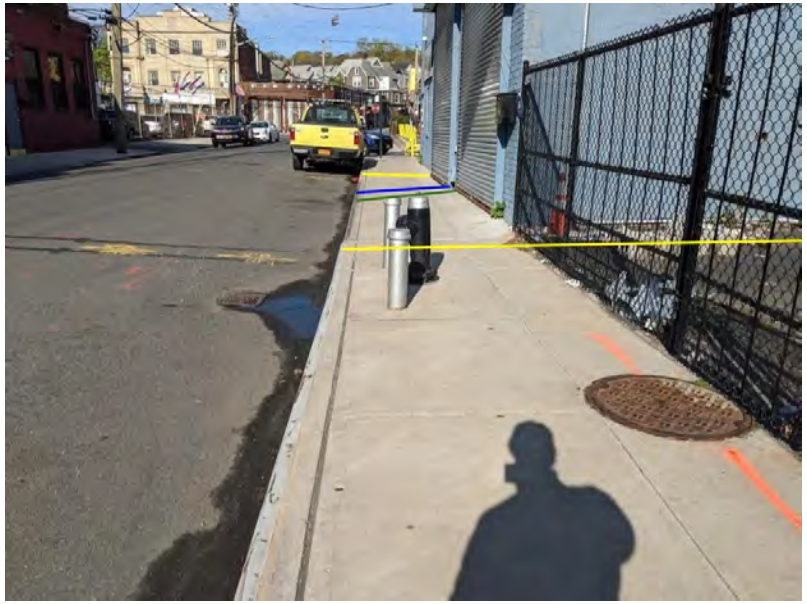






GEOPHYSICAL IMAGES

Commercial Site
475 Bay Street,
Staten Island, New York 10304
April 28th, 2020









GEOPHYSICAL IMAGES

Commercial Site
475 Bay Street,
Staten Island, New York 10304
April 28th, 2020







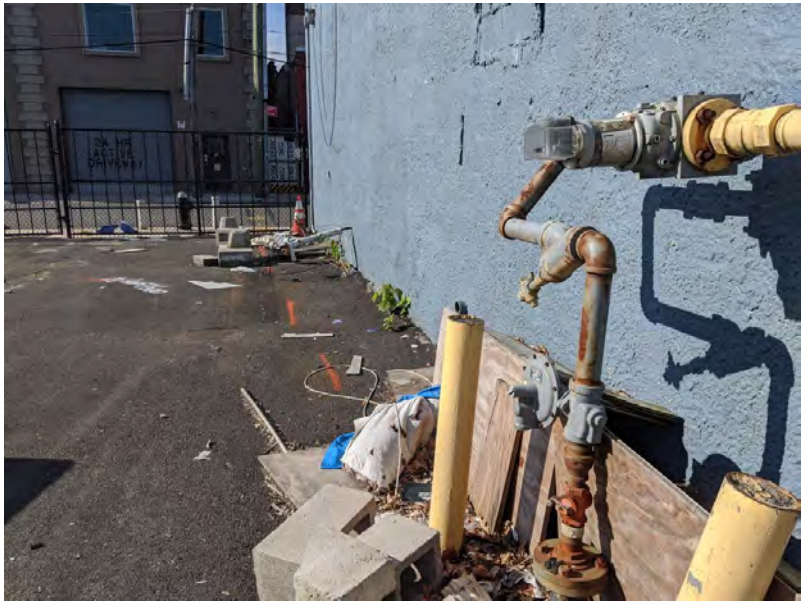


GEOPHYSICAL IMAGES

Commercial Site
475 Bay Street,
Staten Island, New York 10304
April 28th, 2020









GEOPHYSICAL IMAGES

Commercial Site
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Staten Island, New York 10304
April 28th, 2020





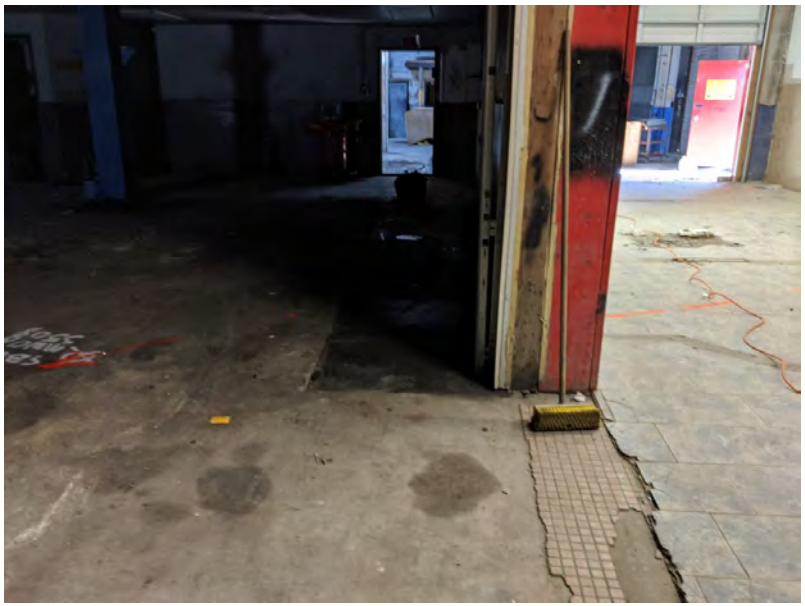


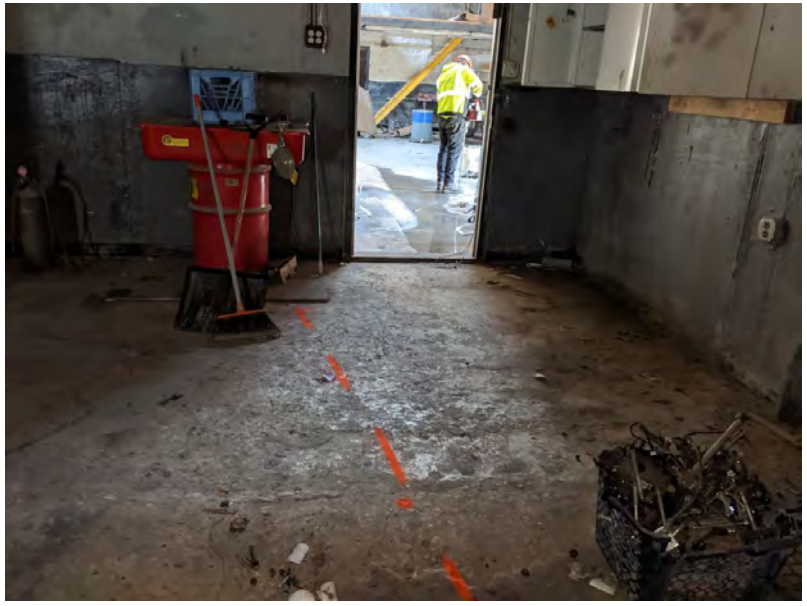


GEOPHYSICAL IMAGES

Commercial Site
475 Bay Street,
Staten Island, New York 10304
April 28th, 2020









GEOPHYSICAL IMAGES

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April 28th, 2020









GEOPHYSICAL IMAGES

Commercial Site
475 Bay Street,
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April 28th, 2020









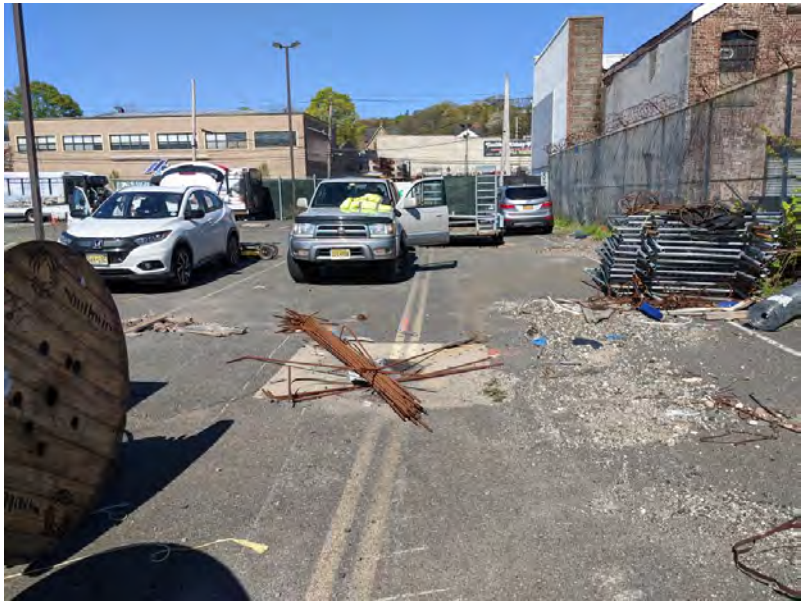
GEOPHYSICAL IMAGES

Commercial Site
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April 28th, 2020









GEOPHYSICAL IMAGES

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April 28th, 2020









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April 28th, 2020









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April 28th, 2020









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April 28th, 2020









GEOPHYSICAL IMAGES

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April 28th, 2020









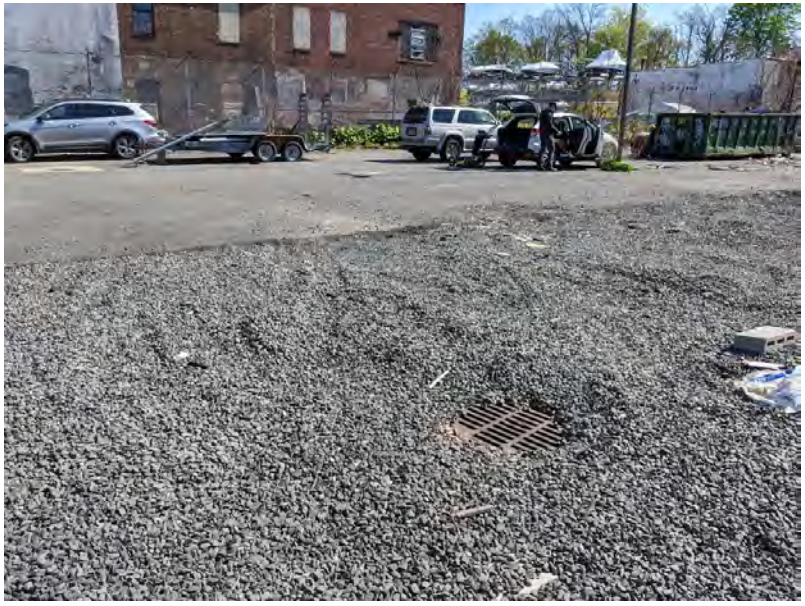
GEOPHYSICAL IMAGES

Commercial Site
475 Bay Street,
Staten Island, New York 10304
April 28th, 2020









GEOPHYSICAL IMAGES

Commercial Site

475 Bay Street,
Staten Island, New York 10304
April 28th, 2020



APPENDIX C
SOIL BORING LOGS

LANGAN

Log of Boring **SB-04** Sheet 1 of 1

Project: 31-33 Wave Street	Project No.: 170610601
Location: Staten Island, NY	Elevation and Datum: NA
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 4/29/20 — Date Finished: 4/29/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 20 ft — Rock Depth: NA
Size and Type of Bit: 4' Macrocore 2 1/4" diameter	Number of Samples: Disturbed 5 — Undisturbed NA — Core NA
Casing Diameter (in): NA — Casing Depth (ft): NA	Water Level (ft.): First ▽ 5.5 — Completion ▼ NA — 24 HR. ▼ NA
Casing Hammer: NA — Weight (lbs): NA — Drop (in): NA	Drilling Foreman: Thomas Harer
Sampler: 2-inch-diameter acetate liner	Field Engineer: Deirdre Casey
Sampler Hammer: NA — Weight (lbs): NA — Drop (in): NA	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		R1a (0-2"): Black coarse angular GRAVEL (dry)[ASPHALT]	0					0.0	
		R1b (2-7"): Dark brownish black fine to coarse SAND, some silt, trace coal ash, trace coal (moist)[FILL]	1					0.0	
		R1c (7-12"): Orangish brown fine SAND, trace silt, trace fine gravel (moist) [FILL]						0.0	SB04_0-2 and SODUP01_042920 at 1410
		R1d (12-26"): Brown to black fine to coarse SAND, trace coal, trace coal ash (moist)[FILL]	2	R1	MACROCORE	32		0.0	
		R1e (26-32"): Brown fine SAND, some silt, trace fine gravel (moist)[FILL]	3						
			4						
			5 ▽						
		R2a (0-6"): Brown fine SAND, some silt, trace fine gravel (moist)[FILL]	6					0.0	
		R2b (6-15"): Dark reddish brown fine SAND, some silt, some gravel (wet)[FILL]						0.0	
		R2c (15-27"): Dark gray to black fine SAND, some coal ash, trace coarse sand (wet)[FILL]	7	R2	MACROCORE	27		0.0	
			8					0.0	
			9						
		R3a (0-5"): Dark grayish brown sandy SILT (wet)[FILL]	10					0.0	
		R3b (5-15"): Dark grayish brown gravelly SILT, trace fine sand (wet)[FILL]						0.0	
			11	R3	MACROCORE	17		0.0	SB04_10-12 at 1415
		R3c (15-17"): Dark grayish brown sandy SILT, trace fine sand (wet)[FILL]	12					0.0	
		R4 (0-30"): Dark reddish brown fine SAND, some silt, trace fine gravel (wet)[SP-SC]	13						
								0.0	
			14	R4	MACROCORE	30		0.0	Petroleum-like odor
								0.0	
			15					0.0	SB04_14-16 at 1420
								0.0	
		R5a (0-12"): Dark grayish reddish brown SILT, trace fine sand, trace fine gravel (wet)[SP-SC]	16					0.0	
		R5b (12-22"): Dark grayish reddish brown SILT, some fine sand, trace fine gravel (wet)[SP-SC]						0.0	
			17					0.0	SB04_18-20 at 1425
		R5c (22-44"): Dark grayish reddish brown SILT, trace fine sand, trace fine gravel (wet)[SP-SC]						0.0	End of boring at 20 feet, below grade surface (bgs). Borehole was backfilled with soil cuttings to surface grade and patched with asphalt. Installed SV04 at 3.5 feet bgs. See soil vapor logs for details.
			18	R5	MACROCORE	44		0.0	
								0.0	
			19					0.0	
			20					0.0	

\\LANGAN.COM\DATA\NYC\DATA6\170610601\PROJECT DATA_DISCIPLINE\ENV\IRONMENTAL\GINTLOGS\170610601_ENTERPRISE.GPJ ... 5/14/2020 9:43:30 AM ... Report: Log - LANGAN

LANGAN

Log of Boring **SB-05** Sheet 1 of 1

Project: 31-33 Wave Street	Project No.: 170610601
Location: Staten Island, NY	Elevation and Datum: NA
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 4/28/20 — Date Finished: 4/28/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 20 ft — Rock Depth: NA
Size and Type of Bit: 4' Macrocore 2 1/4" diameter	Number of Samples: Disturbed 5 — Undisturbed NA — Core NA
Casing Diameter (in): NA — Casing Depth (ft): NA	Water Level (ft.): First ▽ 7 — Completion ▼ NA — 24 HR. ▼ NA
Casing Hammer: NA — Weight (lbs): NA — Drop (in): NA	Drilling Foreman: Thomas Harer
Sampler: 2-inch-diameter acetate liner	Field Engineer: Deirdre Casey
Sampler Hammer: NA — Weight (lbs): NA — Drop (in): NA	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		R1a (0-3"): Black coarse angular GRAVEL (dry)[ASPHALT]	0						
		R1b (3-13"): Dark brown to black coarse SAND, some fine angular gravel, trace coal/slag (dry)[FILL]	1					0.0	SB05_0-2 at 1310
		R1c (13-18"): Dark reddish brown fine SAND, some silt, trace fine angular gravel (moist)[FILL]	2	R1	MACROCORE	18		0.0	
			3					0.0	
			4						
		R2a (0-17"): Orange brown to brown fine SAND, some silt, trace angular coarse gravel (moist)	5						
			6					0.0	SB05_6-8 at 1325
		R2b (17-21"): Dark brown to black fine SAND, some silt, trace angular coarse gravel (moist) ▽	7	R2	MACROCORE	33		0.0	
		R2c (21-33"): Dark reddish brown fine sand, some silt (wet)	8					0.0	
		R3 (0-48"): Dark brown fine SAND, some silt (wet)	9					0.0	
			10	R3	MACROCORE	48		0.0	
			11					0.0	
			12					0.0	
		R4 (0-31"): Dark brown fine SAND, some silt (wet)	13						
			14	R4	MACROCORE	31		0.0	
			15					0.0	
		R5a (0-41"): Dark brown fine SAND, some silt (wet)	16					0.0	
			17					0.0	
			18	R5	MACROCORE	48		0.0	SB05_18-20 at 1345
		R5b (41-48"): Black SILT, some fine sand, trace clay (wet)	19					0.0	End of boring at 20 feet, below grade surface (bgs). Installed MW-05 screened from 4 to 14 feet bgs. See construction logs for details.
			20					0.0	

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Log of Boring **SB-06** Sheet 1 of 1

Project: 31-33 Wave Street	Project No.: 170610601
Location: Staten Island, NY	Elevation and Datum: NA
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 4/29/20 — Date Finished: 4/29/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 20 ft — Rock Depth: NA
Size and Type of Bit: 4' Macrocore 2 1/4" diameter	Number of Samples: Disturbed 5, Undisturbed NA, Core NA
Casing Diameter (in): NA — Casing Depth (ft): NA	Water Level (ft.): First ▽ 4, Completion ▼ NA, 24 HR. ▼ NA
Casing Hammer: NA — Weight (lbs): NA — Drop (in): NA	Drilling Foreman: Thomas Harer
Sampler: 2-inch-diameter acetate liner	Field Engineer: Deirdre Casey
Sampler Hammer: NA — Weight (lbs): NA — Drop (in): NA	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		R1a (0-2"): Black coarse angular GRAVEL (dry)[ASPHALT]	0					0.0	
		R1b (2-8"): Light gray medium angular GRAVEL (dry)[CONCRETE]						0.0	
		R1c (8-15"): Dark reddish brown fine SAND, trace silt (moist)[FILL]	1	R1	MACROCORE	25		0.0	SB06_0-2 at 0900
		R1d (15-25"): Gray to black fine SAND, trace coal ash, trace wood, trace coal, Trace tile (moist)[FILL]	2					0.0	
			3						
		▽	4						
		R2a (0-6"): Grayish reddish brown fine SAND, trace wood, trace coarse sand (wet)[FILL]	5						
		R2b (6-15"): Tannish brown to mottled gray SILT, trace wood, trace glass, trace coal, trace coal ash, trace clay, trace fine sand (wet)[FILL]						0.0	
		R2c (15-20"): Dark brown SILT, trace wood, trace glass, trace fine gravel (wet)[FILL]	6	R2	MACROCORE	23		8.0	SB06_5-7 at 0905
		R2d (20-23"): Dark reddish brown fine SAND, trace wood, trace silt (wet)[FILL]	7					1.7	
								0.0	
								0.0	
		R3a (0-12"): Grayish brown fine SAND, trace silt, trace fine gravel (wet)[FILL]	8						
		R3b (12-35"): Reddish brown fine SAND, some silt, trace wood (wet)[FILL]	9						
			10	R3	MACROCORE	35		0.0	
								0.0	
			11					0.0	
								0.0	
			12					0.0	
		R4 (0-28"): Reddish brown fine SAND, some silt (wet)[SP-SM]						0.0	
			13						SB06_12-14 at 0910
								0.0	
			14	R4	MACROCORE	28		0.0	
								0.0	
			15					0.0	
								0.0	
			16						
		R5a (0-28"): Reddish brown fine SAND, some silt (wet)[SP-SM]							
			17					0.0	SB06_18-20 at 0915
								0.0	Mild organic odor 19-20 ft bgs.
			18	R5	MACROCORE	33		0.0	End of boring at 20 feet,
		R5b (28-33"): Grayish black SILT, trace clay, trace fine sand (wet)[GW-GM]						0.0	below grade surface (bgs).Installed MW-06
			19					0.0	screened from 2 to 12 feet
								1.6	bgs. See construction logs for details.
			20						

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Log of Boring **SB-07** Sheet 1 of 1

Project: 31-33 Wave Street	Project No.: 170610601
Location: Staten Island, NY	Elevation and Datum: NA
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 4/29/20 — Date Finished: 4/29/20
Drilling Equipment: Geoprobe 420M	Completion Depth: 20 ft — Rock Depth: NA
Size and Type of Bit: 4' Macrocore 2 1/4" diameter	Number of Samples: Disturbed 5 — Undisturbed NA — Core NA
Casing Diameter (in): NA — Casing Depth (ft): NA	Water Level (ft.): First ▽ 4 — Completion ▼ NA — 24 HR. ▼ NA
Casing Hammer: NA — Weight (lbs): NA — Drop (in): NA	Drilling Foreman: Thomas Harer
Sampler: 2-inch-diameter acetate liner	Field Engineer: Deirdre Casey
Sampler Hammer: NA — Weight (lbs): NA — Drop (in): NA	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		R1a (0-2"): Black coarse angular GRAVEL (dry)[ASPHALT]	0					0.0	
		R1b (2-6"): Dark brown fine SAND, some fine gravel, trace silt (moist)[FILL]	1					0.0	
		R1c (6-14"): Dark reddish brown fine SAND, some silt (moist)[FILL]						0.0	SB07_0-2 at 1145
		R1d (14-32"): Brown fine SAND, trace fine gravel, Coal and coal ash lens 19-20 and 24-25 (moist)	2	R1	MACROCORE	32		0.0	
			3					0.0	
			4 ▽						
		R2 (0-12"): Dark reddish brown fine SAND, trace wood, trace coal, trace coal ash, trace silt, trace fine gravel (wet)[FILL]	5						
			6	R2	MACROCORE	12		0.0	
			7					0.0	
			8					0.0	
		R3 (0-17"): Reddish brown fine SAND, trace silt, trace fine gravel [SP-SC]	9						SB07_8-10 at 1150.
			10	R3	MACROCORE	17		0.0	
			11					0.0	
			12					0.0	
		R4 (0-22"): Reddish brown fine SAND, trace silt, trace fine gravel [SP-SC]	13						
			14	R4	MACROCORE	22		0.0	
			15					0.0	
			16					0.0	
		R5a (0-10"): Reddish brown fine SAND, trace silt, trace fine gravel							
		R5b (10-20"): Dark gray SILT, some clay, trace fine sand (wet)[SP-SC]	17					0.0	SB07_18-20 at 1200
		R5c (20-32"): Grayish tan fine SAND, trace silt, trace fine gravel (wet)[SP-SC]	18	R5	MACROCORE	32		0.0	End of boring at 20 feet, below grade surface (bgs). Borehole was backfilled with soil cuttings to surface grade and patched with asphalt. Installed SV04 at 2 feet bgs. See soil vapor logs for details.
			19					0.0	
			20					0.0	

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Log of Boring **SB-08** Sheet 1 of 1

Project: 31-33 Wave Street	Project No.: 170610601
Location: Staten Island, NY	Elevation and Datum: NA
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 4/28/20 — Date Finished: 4/28/20
Drilling Equipment: Geoprobe 420M	Completion Depth: 15 ft — Rock Depth: NA
Size and Type of Bit: 4' Macrocore 2 1/4" diameter	Number of Samples: Disturbed 5 — Undisturbed NA — Core NA
Casing Diameter (in): NA — Casing Depth (ft): NA	Water Level (ft.): First ▽ 5 — Completion ▼ NA — 24 HR. ▼ NA
Casing Hammer: NA — Weight (lbs): NA — Drop (in): NA	Drilling Foreman: Julio Galaraza
Sampler: 2-inch-diameter acetate liner	Field Engineer: Deirdre Casey
Sampler Hammer: NA — Weight (lbs): NA — Drop (in): NA	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		R1a (0-12") Gray medium SAND (dry)[CONCRETE]	0					0.0	
								0.0	
		R1b (12-24"): Grayish brown fine SAND, trace gravel (dry)[FILL]	1	R1	MACROCORE	24		0.0	
			2						SB08_0-2 at 1450
			3						
			4	R2	MACROCORE	12			
			▽ 5					0.0	
		R2a (0-6"): Light reddish brown fine SAND, trace fine gravel (wet)[FILL]						0.0	SB08_4-6 at 1455
		R2b (6-12"): Reddish brown SAND, trace fine gravel (wet)[FILL]	6					0.0	
		R3a (0-24"): Brown fine SAND, trace fine gravel (wet)[FILL]	7	R3	MACROCORE	30			
			8					0.0	
		R3b (24-30"): Light brownish olive fine SAND, trace medium sand, trace fine gravel (wet)						0.0	
			9					0.0	
		R4 (0-18"): Brownish olive fine SAND, some medium sand, trace fine gravel (wet)	10	R4	MACROCORE	18			
			11					0.0	
								0.0	
								0.0	
			12					0.0	
			13	R5	MACROCORE	30			SB08_13-15 at 1500
		R5 (0-30"): Brown fine SAND, trace fine gravel (wet)						0.0	
			14					0.0	
								0.0	
			15					0.0	End of boring at 15 feet, below grade surface (bgs). Installed MW-08 screened from 1 to 11 feet bgs. See construction logs for details.
			16						
			17						
			18						
			19						
			20						

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Log of Boring **SB-09** Sheet 1 of 1

Project: 31-33 Wave Street	Project No.: 170610601
Location: Staten Island, NY	Elevation and Datum: NA
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 4/28/20 — Date Finished: 4/28/20
Drilling Equipment: Geoprobe 420M	Completion Depth: 15 ft — Rock Depth: NA
Size and Type of Bit: 3' Macrocore 2 1/4" diameter	Number of Samples: Disturbed 5 — Undisturbed NA — Core NA
Casing Diameter (in): NA — Casing Depth (ft): NA	Water Level (ft.): First ▽ 6 — Completion ▼ NA — 24 HR. ▼ NA
Casing Hammer: NA — Weight (lbs): NA — Drop (in): NA	Drilling Foreman: Julio Galaraza
Sampler: 2-inch-diameter acetate liner	Field Engineer: Deirdre Casey
Sampler Hammer: NA — Weight (lbs): NA — Drop (in): NA	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		R1a (0-12"): Gray medium SAND (dry)[CONCRETE]	0	R1	MACROCORE	29		0.0	
		R1b (12-23"): Reddish brown fine SAND, trace fine gravel [CH]	1					0.0	SB09_0-2 at 1330
		R1c (23-27"): Reddish brown clayey SILT, some fine sand, trace fine gravel (moist)[FILL]	2					0.0	
		R1d (27-29"): Black coarse angular GRAVEL (dry)[ASPHALT]	3						
		R2a (0-18"): Reddish brown fine SAND, trace fine gravel (moist)[FILL]	4	R2	MACROCORE	24		0.0	SB09_4-6 at 1335
			5					0.1	
		R2b (18-20"): Grayish olive CLAY, trace fine gravel (moist)						0.0	
		R2c (20-24"): Light gray coarse SAND, trace coal, trace gravel (moist)	6					0.2	
		R3a (0-18"): Brownish olive fine SAND, trace gravel (wet)[FILL]	7	R3	MACROCORE	36			
		R3b (18-36"): Black clayey SAND, trace wood, trace fine gravel (wet)	8					0.0	
								0.0	
		R4 (0-6"): Brownish gray medium SAND, trace fine gravel (wet)	9					0.0	
			10	R4	MACROCORE	6			
			11					0.0	
								0.0	
		R5a (0-12"): Brown silty fine SAND (wet)[NATIVE]	12						
			13	R5	MACROCORE	18			SB09_13-15 at 1340
								0.0	
			14					0.0	
		R5b (12-18"): Gray CLAY, trace fine gravel (wet)[CL]						0.0	
			15					0.0	End of boring at 15 feet, below grade surface (bgs). Borehole was backfilled with soil cuttings to surface grade and patched with asphalt.
			16						
			17						
			18						
			19						
			20						

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APPENDIX D
WELL CONSTRUCTION AND GROUNDWATER SAMPLING LOGS

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. **MW-05**

PROJECT		PROJECT NO.	
31-33 Wave Street		170610601	
LOCATION		**ELEVATION AND DATUM**	
Staten Island, New York		el.	NAVD88
DRILLING AGENCY		**DATE STARTED**	**DATE FINISHED**
AARCO Environmental Services, Corp.		4/28/2020	4/28/2020
DRILLING EQUIPMENT		**DRILLER**	
Geoprobe® 7822 DT		Thomas Harer	
SIZE AND TYPE OF BIT		**INSPECTOR**	
4-inch Direct Push		Deirdre Casey	
BOREHOLE DIAMETER		**TYPE OF WELL (OVERBURDEN / BEDROCK)**	
2-1/4 inch		Overburden	
RISER MATERIAL	**DIAMETER**	**TYPE OF BACKFILL MATERIAL**	
PVC	2-Inch	Sand	
TYPE OF SCREEN	**DIAMETER**	**TYPE OF WELL PACK**	**TYPE OF SEAL MATERIAL**
PVC No. 10 Slot	2-Inch	No. 2 Sand	Bentonite

METHOD OF INSTALLATION

A Geoprobe 7822DT was used to advance the boring to approximately 20 feet below grade surface (bgs). A permanent 2-inch PVC monitoring well was installed, which consisted of 10' of 10-slot (0.010-inch) well screen, and a solid 2" PVC riser. Well screen was installed from approximately 4 to 14 feet bgs with riser from about grade surface to about 3 feet bgs. The annulus was filled with sand to 4 feet bgs, sealed with hydrated bentonite, and completed to surface grade with clean sand.

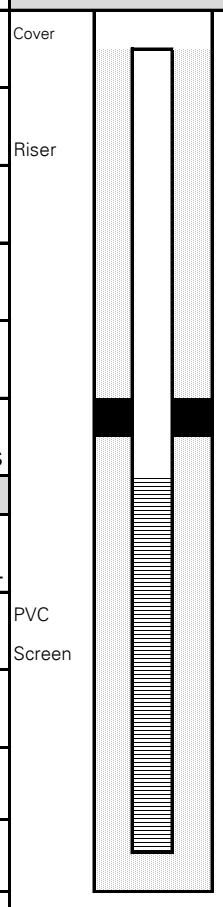
WELL DEVELOPMENT DATA

SURGE BLOCK DIAMETER	N/A	**TYPE PUMP**		Submersible	**DEVELOPMENT CONFIRMATION**
DRILLER OR LANGAN	Driller	**MAX PUMP RATE**		1 LPM	Well Developed on 4/29/2020 until groundwater was no longer turbid
NUMBER OF SURGE CYCLES	N/A	**TOTAL VOLUME**		~10 Gal	

TOP OF CASING	**ELEVATION** N/A	**DEPTH (ft)** N/A
TOP OF SEAL	**ELEVATION** N/A	**DEPTH (ft)** 0.5
TOP OF FILTER	**ELEVATION** N/A	**DEPTH (ft)** 3
TOP OF SCREEN	**ELEVATION** N/A	**DEPTH (ft)** 4.0
BOTTOM OF BORING	**ELEVATION** N/A	**DEPTH (ft)** 14
SCREEN LENGTH		10 ft
SLOT SIZE		No. 10 Slot; 0.010 Inches

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER (ft bgs)
N/A	4/30/2020	10.24



WELL DETAILS	SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
		0
		3
		4.00
		14.00

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WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. **MW-06**

PROJECT		PROJECT NO.	
31-33 Wave Street		170610601	
LOCATION		**ELEVATION AND DATUM**	
Staten Island, New York		el.	NAVD88
DRILLING AGENCY		**DATE STARTED**	**DATE FINISHED**
AARCO Environmental Services, Corp.		4/29/2020	4/29/2020
DRILLING EQUIPMENT		**DRILLER**	
Geoprobe® 7822 DT		Thomas Harer	
SIZE AND TYPE OF BIT		**INSPECTOR**	
4-inch Direct Push		Deirdre Casey	
BOREHOLE DIAMETER		**TYPE OF WELL (OVERBURDEN / BEDROCK)**	
2-1/4 inch		Overburden	
RISER MATERIAL	**DIAMETER**	**TYPE OF BACKFILL MATERIAL**	
PVC	2-Inch	Sand	
TYPE OF SCREEN	**DIAMETER**	**TYPE OF WELL PACK**	**TYPE OF SEAL MATERIAL**
PVC No. 10 Slot	2-Inch	No. 2 Sand	Bentonite

METHOD OF INSTALLATION

A Geoprobe 7822DT was used to advance the boring to approximately 12 feet below grade surface (bgs). A permanent 2-inch PVC monitoring well was installed, which consisted of 10' of 10-slot (0.010-inch) well screen, and a solid 2" PVC riser. Well screen was installed from approximately 2 to 12 feet bgs with riser from grade surface to about 2 feet bgs. The annulus was filled with sand to 1 foot bgs and sealed with hydrated bentonite to surface grade.

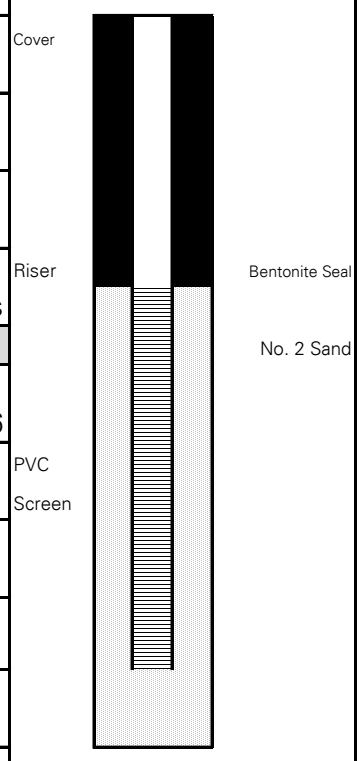
WELL DEVELOPMENT DATA

SURGE BLOCK DIAMETER	N/A	**TYPE PUMP**	Submersible	**DEVELOPMENT CONFIRMATION**
DRILLER OR LANGAN	Driller	**MAX PUMP RATE**	1 LPM	Well Developed on 4/29/2020 until groundwater was no longer turbid
NUMBER OF SURGE CYCLES	N/A	**TOTAL VOLUME**	~10 Gal	

TOP OF CASING	**ELEVATION** N/A	**DEPTH (ft)** N/A
TOP OF SEAL	**ELEVATION** N/A	**DEPTH (ft)** 0.5
TOP OF FILTER	**ELEVATION** N/A	**DEPTH (ft)** 1
TOP OF SCREEN	**ELEVATION** N/A	**DEPTH (ft)** 2.0
BOTTOM OF BORING	**ELEVATION** N/A	**DEPTH (ft)** 12
SCREEN LENGTH		10 ft
SLOT SIZE		No. 10 Slot; 0.010 Inches

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER (ft bgs)
N/A	4/30/2020	3.56



WELL DETAILS	SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
		0
		1
		11.00
		EOB

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WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. **MW-08**

PROJECT		PROJECT NO.	
31-33 Wave Street		170610601	
LOCATION		**ELEVATION AND DATUM**	
Staten Island, New York		el. N/A	NAVD88
DRILLING AGENCY		**DATE STARTED**	**DATE FINISHED**
AARCO Environmental Services, Corp.		4/28/2020	4/29/2020
DRILLING EQUIPMENT		**DRILLER**	
Geoprobe® 420 M		Julio Yolozo	
SIZE AND TYPE OF BIT		**INSPECTOR**	
2-inch Direct Push		Deirdre Casey	
BOREHOLE DIAMETER		**TYPE OF WELL (OVERBURDEN / BEDROCK)**	
1-1/4 inch		Overburden	
RISER MATERIAL	**DIAMETER**	**TYPE OF BACKFILL MATERIAL**	
PVC	1-Inch	Sand	
TYPE OF SCREEN	**DIAMETER**	**TYPE OF WELL PACK**	**TYPE OF SEAL MATERIAL**
PVC No. 10 Slot	1-Inch	No. 2 Sand	Bentonite

METHOD OF INSTALLATION

A Geoprobe 420M was used to advance the boring to approximately 15 feet below grade surface (bgs). A permanent 1-inch PVC monitoring well was installed, which consisted of 10' of 10-slot (0.010-inch) well screen, and a solid 1" PVC riser. Well screen was installed from approximately 1 to 11 feet bgs with riser from about grade surface to about 1 foot bgs. The annulus was filled with sand to 1 foot bgs and sealed with hydrated bentonite to surface grade.

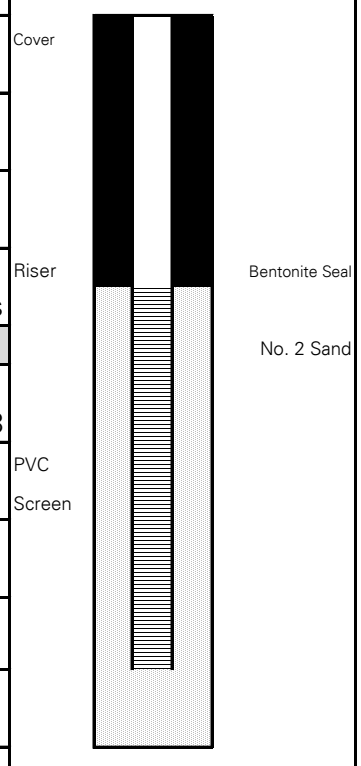
WELL DEVELOPMENT DATA

SURGE BLOCK DIAMETER	N/A	**TYPE PUMP**	Peristaltic	**DEVELOPMENT CONFIRMATION**
DRILLER OR LANGAN	Driller	**MAX PUMP RATE**	0.4 LPM	Well Developed on 4/29/2020 until groundwater was no longer turbid
NUMBER OF SURGE CYCLES	N/A	**TOTAL VOLUME**	~5 Gal	

TOP OF CASING	**ELEVATION** N/A	**DEPTH (ft)** N/A
TOP OF SEAL	**ELEVATION** N/A	**DEPTH (ft)** 0
TOP OF FILTER	**ELEVATION** N/A	**DEPTH (ft)** 1
TOP OF SCREEN	**ELEVATION** N/A	**DEPTH (ft)** 1.0
BOTTOM OF BORING	**ELEVATION** N/A	**DEPTH (ft)** 11
SCREEN LENGTH		10 ft
SLOT SIZE		No. 10 Slot; 0.010 Inches

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER (ft bgs)
N/A	4/30/2020	3.73



WELL DETAILS	SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
		0
		1
		11.00
		EOB

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Groundwater Sampling Logs

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	**31-33 Wave Street**	**Well No:**	MW05	**Water Quality Device Model:**	**Horiba U52**	**Weather:**	55-58F Rain		MW05_043020
Project Number:	**170610601**	**Well Depth:**	14'	**Pine Number:**	**51666**	**Background PID (ppm):**	0	**Sample(s):**	
Site Location:	**Staten Island**	**Well Diameter:**	2"	**Pump Make and Model:**	**Peristaltic Pump**	**PID Beneath Inner Cap (ppm):**	0		
Sampling Personnel:	**Luke McCartney**	**Well Screen Interval:**	4' 14'	**Pine Number:** **Tubing Diameter:**	**51860** **3/16 ID x 3/8 OD**	**Pump Intake Depth:** **Depth to Water Before Purge:**	12.50 10.24	**Sample Date:** **Sample Time:**	4/30/2020 16:40

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
15:23	14.78	7.38	61	0.638	271	1.76					**N/A**
15:28	14.23	7.43	22	0.589	459	0.69		0.6	3		**N/A**
15:33	14.23	7.36	-23	0.582	993	1.08		0.4	5		**N**
15:38	14.21	7.33	-60	0.628	623	0.50		0.3	6.5		**N**
15:43	14.15	7.39	-83	0.619	557	2.36		0.3	8	Slight brown, no odor	**N**
15:48	14.08	7.41	-104	0.652	524	1.59		0.4	10		**N**
15:53	14.10	7.43	-98	0.657	338	3.29		0.3	11.5		**N**
15:58								0.1	12		**N**
16:03	14.27	7.53	-95	0.658	125	3.79		0.2	13		**N**
16:08	14.12	7.49	-96	0.666	129	0.63		0.3	14.5	Clear, no odor	**N**
16:13	14.07	7.49	-101	0.660	129	2.61		0.2	15.5		**N**
16:18	14.07	7.49	-102	0.661	129	2.95		0.3	17		**N**
16:23	Well pumped dry - allow recharge and sample										**N**
16:40	Well Sampled										**N**
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N

Notes:

1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

Groundwater Sampling Logs

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	**31-33 Wave Street**	**Well No:**	MW06	**Water Quality Device Model:**	**Horiba U52**	**Weather:**	55-58F Rain		MW06_043020
Project Number:	**170610601**	**Well Depth:**	11'	**Pine Number:**	**51666**	**Background PID (ppm):**	0	**Sample(s):**	
Site Location:	**Staten Island**	**Well Diameter:**	2"	**Pump Make and Model:**	**Peristaltic Pump**	**PID Beneath Inner Cap (ppm):**	0		
Sampling		**Well Screen**	1'	**Pine Number:**	**51860**	**Pump Intake Depth:**	5.00	**Sample Date:**	4/30/2020
Personnel:	**Luke McCartney**	**Interval:**	11'	**Tubing Diameter:**	**3/16 ID x 3/8 OD**	**Depth to Water Before Purge:**	3.56	**Sample Time:**	14:14

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
13:14	13.67	7.91	-93	0.367	78.4	1.57			0		**N/A**
13:19	14.05	7.56	-137	0.383	40.10	0.00		0.2	1		**N/A**
13:24	14.07	7.41	-147	0.397	26.40	0.00		0.3	2.5		**N**
13:29	14.07	7.35	-150	0.406	14.80	0.00		0.3	4		**N**
13:34	14.08	7.33	-152	0.406	11.60	0.00		0.2	5		**N**
13:39	14.09	7.31	-154	0.416	8.70	0.00		0.5	7.5		**N**
13:44	14.12	7.30	-154	0.419	8.60	0.00		0.2	8.5	Clear, no odor	**N**
13:49	14.18	7.29	-155	0.418	5.0	0.00		0.3	10		**N**
13:54	14.24	7.29	-155	0.417	6.5	0.00		0.4	12		**N**
13:59	14.24	7.28	-155	0.420	2.2	0.00		0.4	14		**N**
14:04	14.22	7.28	-154	0.422	2.3	0.00		0.4	16		**N**
14:09	14.24	7.27	-154	0.426	0.0	0.00		0.4	18		**Y**
14:14	14.19	7.28	-154	0.424	0.7	0.00		0.4	20		**Y**

Notes:
1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

Groundwater Sampling Logs

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	**31-33 Wave Street**	**Well No:**	MW08	**Water Quality Device Model:**	**Horiba U52**	**Weather:**	55-58F Rain		MW08_043020
Project Number:	**170610601**	**Well Depth:**	11'	**Pine Number:**	**51666**	**Background PID (ppm):**	0	**Sample(s):**	GWDUP01_043020
Site Location:	**Staten Island**	**Well Diameter:**	1"	**Pump Make and Model:**	**Peristaltic Pump**	**PID Beneath Inner Cap (ppm):**	0		
Sampling		**Well Screen**	1'	**Pine Number:**	**51860**	**Pump Intake Depth:**	4.50	**Sample Date:**	4/30/2020
Personnel:	**Luke McCartney**	**Interval:**	11'	**Tubing Diameter:**	**3/16 ID x 3/8 OD**	**Depth to Water Before Purge:**	3.73	**Sample Time:**	10:55

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
9:55	12.92	6.29	212	0.349	1000	5.69			0		**N/A**
10:00	12.89	7.03	187	0.326	1000	5.40		0.5	2.5	Brown, no odor	**N/A**
10:05	12.87	7.30	185	0.325	846	5.6		0.25	3.75		**N**
10:10	12.86	7.47	187	0.329	284	5.60		0.2	4.75		**N**
10:15	12.85	7.53	189	0.329	224	5.56		0.2	5.75		**N**
10:20	12.82	7.58	192	0.332	68.3	5.64		0.25	7		**N**
10:25	12.80	7.61	195	0.334	45.5	5.71		0.35	8.75		**N**
10:30	12.79	7.66	197	0.336	38.2	5.77		0.25	10	Clear, no odor	**N**
10:35	12.78	7.67	198	0.337	39.4	5.90		0.25	11.25		**N**
10:40	12.78	7.68	199	0.338	62.9	5.62		0.35	13		**N**
10:45	12.77	7.69	202	0.339	51.3	5.64		0.3	14.5		**N**
10:50	12.77	7.70	203	0.340	20.7	5.60		0.5	17		**N**
10:55	12.76	7.71	205	0.340	15.9	5.57					**N**

Notes:
1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

APPENDIX E
SOIL VAPOR CONSTRUCTION AND SAMPLING LOGS

SUB-SLAB SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SS08

PROJECT: 31-33 Wave Street		**PROJECT NO.:** 170610601	
LOCATION: Staten Island, New York		**SURFACE ELEVATION AND DATUM:** n/a	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services Corp.		**INSTALLATION DATE STARTED:** 4/28/2020	**DATE FINISHED:** 4/28/2020
INSTALLATION FOREMAN: Ron Dixon		**SAMPLE DATE STARTED:** 4/30/2020	**DATE FINISHED:** 4/30/2020
INSTALLATION EQUIPMENT: Geoprobe® 420 M		**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
INSPECTOR: Deirdre Casey		**SAMPLER:** Luke McCartney	
POTENTIAL SAMPLE INTERFERENCES: None observed		**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 54-58°F Wind: 16-24 mph SE Precipitation: Rain/cloudy Pressure: 1015-1019 MB	

METHOD OF INSTALLATION AND PURGING:
AARCO advanced subslab vapor point to 14-inches below the top of the slab. A small amount of No. 2 sand was backfilled into the borehole to set the vapor tubing. No. 2 sand was backfilled around the tubing to 3 inches bgs, and the remainder of the borehole was sealed with bentonite.

TUBING TYPE/DIAMETER: 1/4-Inch Teflon-lined Polyethylene Tubing		**TYPE OF MATERIAL ABOVE SEAL:** Hydrated bentonite	
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite	
BOREHOLE DIAMETER: 2-inch		**FILTER PACK MATERIAL (Sand or Glass Beads):** No. 2 Sand	
PURGE VOLUME (L):	0.067		
PURGE FLOW RATE (ML/MIN):	200		
PID AFTER PURGE (PPM):	0		
HELIUM TESTS	Pre-sampling / Post-sampling		
HELIUM TEST IN BUCKET(%):	21.2% / 19.7%		
HELIUM TEST IN TUBE (PPM):	0.0% / 0.0%		
SAMPLE START TIME:	9:13		
SAMPLE STOP TIME:	17:13		
TOTAL SAMPLE TIME (MIN):	480		
REGULATOR FLOW RATE (L/MIN):	0.009673		
VOLUME OF SAMPLE (LITERS):	6		
PID AFTER SAMPLE (PPM):	0		
SAMPLE MOISTURE CONTENT:	n/a		
CAN SERIAL NUMBER:	16956		
REGULATOR SERIAL NUMBER:	5610		
CAN START VACUUM PRESS. (" HG):	-29.75		
CAN STOP VACUUM PRESS. (" HG):	-7		

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	**DEPTH (INCHES FROM SURFACE)**	**NOTES**
Top of Seal	0.00	
Top of Pack	3 inches	
Probe Depth	14 inches	

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Sample Name: SS08_043020

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21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

SUB-SLAB SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SS09

PROJECT: 31-33 Wave Street		**PROJECT NO.:** 170610601	
LOCATION: Staten Island, New York		**SURFACE ELEVATION AND DATUM:** n/a	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services Corp.		**INSTALLATION DATE STARTED:** 4/28/2020	**DATE FINISHED:** 4/28/2020
INSTALLATION FOREMAN: Ron Dixon		**SAMPLE DATE STARTED:** 4/30/2020	**DATE FINISHED:** 4/30/2020
INSTALLATION EQUIPMENT: Geoprobe® 420 M		**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
INSPECTOR: Deirdre Casey		**SAMPLER:** Luke McCartney	
POTENTIAL SAMPLE INTERFERENCES: None observed		**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 54-58°F Wind: 16-24 mph SE Precipitation: Rain/cloudy Pressure: 1015-1019 MB	

METHOD OF INSTALLATION AND PURGING:
AARCO advanced subslab vapor point to 14-inches below the top of the slab. A small amount of No. 2 sand was backfilled into the borehole to set the vapor tubing. No. 2 sand was backfilled around the tubing to 2 inches bgs, and the remainder of the borehole was sealed with bentonite.

TUBING TYPE/DIAMETER: 1/4-Inch Teflon-lined Polyethylene Tubing	**TYPE OF MATERIAL ABOVE SEAL:** Hydrated bentonite
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite
BOREHOLE DIAMETER: 2-inch	**FILTER PACK MATERIAL (Sand or Glass Beads):** No. 2 Sand

PURGE VOLUME (L):	0.067	
PURGE FLOW RATE (ML/MIN):	200	
PID AFTER PURGE (PPM):	0.4	
HELIUM TESTS	Pre-sampling	Post-sampling
HELIUM TEST IN BUCKET(%):	18.5%	23.4%
HELIUM TEST IN TUBE (PPM):	0.0%	0.0%
SAMPLE START TIME:	9:12	
SAMPLE STOP TIME:	17:12	
TOTAL SAMPLE TIME (MIN):	480	
REGULATOR FLOW RATE (L/MIN):	0.01151	
VOLUME OF SAMPLE (LITERS):	6	
PID AFTER SAMPLE (PPM):	0.2	
SAMPLE MOISTURE CONTENT:	n/a	
CAN SERIAL NUMBER:	18302	
REGULATOR SERIAL NUMBER:	Y15	
CAN START VACUUM PRESS. (" HG):	-31.5	
CAN STOP VACUUM PRESS. (" HG):	-7	

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	**DEPTH (INCHES FROM SURFACE)**	**NOTES**
Top of Seal	0.00	
Top of Pack	3.00	
Probe Depth	14.00	

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Sample Name: SS09_043020

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV04

PROJECT: 31-33 Wave Street	**PROJECT NO.:** 170610601	
LOCATION: Staten Island, New York	**SURFACE ELEVATION AND DATUM:** n/a	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services Corp.	**INSTALLATION DATE STARTED:** 4/29/2020	**DATE FINISHED:** 4/29/2020
INSTALLATION FOREMAN: Ron Dixon	**SAMPLE DATE STARTED:** 4/30/2020	**DATE FINISHED:** 4/30/2020
INSTALLATION EQUIPMENT: Geoprobe® 7822 DT	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
INSPECTOR: Deirdre Casey	**SAMPLER:** Luke McCartney	
POTENTIAL SAMPLE INTERFERENCES: None Observed	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 54-58°F Wind: 16-24 mph SE Precipitation: Rain/cloudy Pressure: 1015-1019 MB	

METHOD OF INSTALLATION AND PURGING:
Advance Geoprobe 7822DT to 3 feet below grade surface (bgs), install 2-inch polyethylene probe, backfill with No. 2 sand to 2 feet bgs, and sealed with hydrated bentonite to surface with hydrated bentonite.

TUBING TYPE/DIAMETER: 1/4-Inch Teflon-lined Polyethylene Tubing	**TYPE OF MATERIAL ABOVE SEAL:** Hydrated bentonite
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: None	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite
BOREHOLE DIAMETER: 2-inch	**FILTER PACK MATERIAL (Sand or Glass Beads):** No. 2 Sand

PURGE VOLUME (L):	0.067	
PURGE FLOW RATE (ML/MIN):	200	
PID AFTER PURGE (PPM):	0.1	
HELIUM TESTS	Pre-sampling	Post-sampling
HELIUM TEST IN BUCKET(%):	14.3%	17.1%
HELIUM TEST IN TUBE (PPM):	0.0%	0.0%
SAMPLE START TIME:	12:33	
SAMPLE STOP TIME:	14:33	
TOTAL SAMPLE TIME (MIN):	120	
REGULATOR FLOW RATE (L/MIN):	0.004556	
VOLUME OF SAMPLE (LITERS):	6	
PID AFTER SAMPLE (PPM):	0.1	
SAMPLE MOISTURE CONTENT:	n/a	
CAN SERIAL NUMBER:	467	
REGULATOR SERIAL NUMBER:	Y12	
CAN START VACUUM PRESS. (" HG):	-30	
CAN STOP VACUUM PRESS. (" HG):	-5.5	

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	**DEPTH (FEET FROM SURFACE)**	**NOTES**
SURFACE		
Top of Seal	0	
Top of Pack	2	
Tube Depth	3	
SURFACE		

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Sample Name: SV04__043020

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV07

PROJECT: 31-33 Wave Street	**PROJECT NO.:** 170610601	
LOCATION: Staten Island, New York	**SURFACE ELEVATION AND DATUM:** n/a	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services Corp.	**INSTALLATION DATE STARTED:** 4/29/2020	**DATE FINISHED:** 4/29/2020
INSTALLATION FOREMAN: Ron Dixon	**SAMPLE DATE STARTED:** 4/30/2020	**DATE FINISHED:** 4/30/2020
INSTALLATION EQUIPMENT: Geoprobe® 7822 DT	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
INSPECTOR: Deirdre Casey	**SAMPLER:** Luke McCartney	
POTENTIAL SAMPLE INTERFERENCES: None Observed	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 54-58°F Wind: 16-24 mph SE Precipitation: Rain/cloudy Pressure: 1015-1019 MB	

METHOD OF INSTALLATION AND PURGING:
Advance Geoprobe 7822DT to 2 feet below grade surface (bgs), install 2-inch polyethylene probe, backfill with No. 2 sand to 1 feet bgs, and sealed with hydrated bentonite to surface with hydrated bentonite.

TUBING TYPE/DIAMETER: 1/4-Inch Teflon-lined Polyethylene Tubing	**TYPE OF MATERIAL ABOVE SEAL:** Hydrated bentonite
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: None	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite
BOREHOLE DIAMETER: 2-inch	**FILTER PACK MATERIAL (Sand or Glass Beads):** No. 2 Sand

PURGE VOLUME (L):	0.067	
PURGE FLOW RATE (ML/MIN):	200	
PID AFTER PURGE (PPM):	0	
HELIUM TESTS	Pre-sampling	Post-sampling
HELIUM TEST IN BUCKET(%):	25.1%	15.5%
HELIUM TEST IN TUBE (PPM):	0.0%	0.0%
SAMPLE START TIME:	12:30	
SAMPLE STOP TIME:	14:30	
TOTAL SAMPLE TIME (MIN):	120	
REGULATOR FLOW RATE (L/MIN):	0.004435	
VOLUME OF SAMPLE (LITERS):	6	
PID AFTER SAMPLE (PPM):	0	
SAMPLE MOISTURE CONTENT:	n/a	
CAN SERIAL NUMBER:	23996	
REGULATOR SERIAL NUMBER:	6878	
CAN START VACUUM PRESS. (" HG):	-31.5	
CAN STOP VACUUM PRESS. (" HG):	-7.75	

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	**DEPTH (FEET FROM SURFACE)**	**NOTES**
SURFACE		
SURFACE		
Top of Seal	0	
Top of Pack	1	
Tube Depth	2	

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Sample Name: SV07__043020

INDOOR AIR SAMPLING LOG SHEET

Sample Number: IA09

PROJECT: 31-33 Wave Street	**PROJECT NO.:** 170610601	
LOCATION: Staten Island, New York	**SURFACE ELEVATION AND DATUM:** N/A	
SAMPLER: Luke McCartney	**SAMPLE DATE STARTED:** 4/30/2020	**DATE FINISHED:** 4/30/2020
INSPECTOR: Luke McCartney	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
POTENTIAL SAMPLE INTERFERENCES: None Observed	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):**	
	Temp:	54-58°F
	Wind:	16-24 mph SE
	Precipitation:	Rain/cloudy
	Pressure:	1015-1019 MB

METHOD OF INSTALLATION AND SAMPLING:

Langan field screened the sample location with a MiniRAE 3000 photoionization detector prior to sampling. Sample consisted of 6L Summa canister fitted with an 8-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 8-hour sample collection. The sample and flow controller were checked each hour during sampling to ensure proper operation.

SAMPLE DETAILS

HEIGHT ABOVE GROUND (FT):	3.5
PID BEFORE SAMPLE (PPM):	0.0
SAMPLE START TIME:	9:23
SAMPLE STOP TIME:	17:23
TOTAL SAMPLE TIME (MIN):	480
REGULATOR FLOW RATE (L/MIN):	0.00977
VOLUME OF SAMPLE (LITERS):	6
PID AFTER SAMPLE (PPM):	0.0
SAMPLE MOISTURE CONTENT:	n/a
CAN SERIAL NUMBER:	Y3
REGULATOR SERIAL NUMBER:	28316
CAN START VACUUM PRESS. (" HG):	-29.9
CAN STOP VACUUM PRESS. (" HG):	-8

SAMPLE LOCATION SKETCH

See Sample Location Plan

Paired with SS09_043020

NOTES

Sample Name: IA09__043020

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INDOOR AIR SAMPLING LOG SHEET

Sample Number: IA08

PROJECT: 31-33 Wave Street	**PROJECT NO.:** 170610601	
LOCATION: Staten Island, New York	**SURFACE ELEVATION AND DATUM:** N/A	
SAMPLER: Luke McCartney	**SAMPLE DATE STARTED:** 4/30/2020	**DATE FINISHED:** 4/30/2020
INSPECTOR: Luke McCartney	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
POTENTIAL SAMPLE INTERFERENCES: None Observed	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):**	
	Temp:	54-58°F
	Wind:	16-24 mph SE
	Precipitation:	Rain/cloudy
	Pressure:	1015-1019 MB

METHOD OF INSTALLATION AND SAMPLING:

Langan field screened the sample location with a MiniRAE 3000 photoionization detector prior to sampling. Sample consisted of 6L Summa canister fitted with an 8-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 8-hour sample collection. The sample and flow controller were checked each hour during sampling to ensure proper operation.

SAMPLE DETAILS

HEIGHT ABOVE GROUND (FT):	3.5
PID BEFORE SAMPLE (PPM):	0.0
SAMPLE START TIME:	9:12
SAMPLE STOP TIME:	17:12
TOTAL SAMPLE TIME (MIN):	480
REGULATOR FLOW RATE (L/MIN):	0.01105
VOLUME OF SAMPLE (LITERS):	6
PID AFTER SAMPLE (PPM):	0.0
SAMPLE MOISTURE CONTENT:	n/a
CAN SERIAL NUMBER:	18295
REGULATOR SERIAL NUMBER:	Y34
CAN START VACUUM PRESS. (" HG):	-30
CAN STOP VACUUM PRESS. (" HG):	-6

SAMPLE LOCATION SKETCH

See Sample Location Plan

Paired with SS08_043020

NOTES

Sample Name: IA08_042030

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AMBIENT AIR SAMPLING LOG SHEET

Sample Number: AA01

PROJECT: 31-33 Wave Street	**PROJECT NO.:** 170610601	
LOCATION: Staten Island, New York	**SURFACE ELEVATION AND DATUM:** N/A	
SAMPLER: Luke McCartney	**SAMPLE DATE STARTED:** 4/30/2020	**DATE FINISHED:** 4/30/2020
INSPECTOR: Luke McCartney	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
POTENTIAL SAMPLE INTERFERENCES: None Observed	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):**	
	Temp:	54-58°F
	Wind:	16-24 mph SE
	Precipitation:	Rain/cloudy
	Pressure:	1015-1019 MB

METHOD OF INSTALLATION AND SAMPLING:

Langan field screened the sample location with a MiniRAE 3000 photoionization detector prior to sampling. Sample consisted of 6L Summa canister fitted with a 2-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked each hour during sampling to ensure proper operation.

SAMPLE DETAILS

HEIGHT ABOVE GROUND (FT):	3.5
PID BEFORE SAMPLE (PPM):	0.0
SAMPLE START TIME:	12:35
SAMPLE STOP TIME:	14:31
TOTAL SAMPLE TIME (MIN):	116
REGULATOR FLOW RATE (L/MIN):	0.04393
VOLUME OF SAMPLE (LITERS):	6
PID AFTER SAMPLE (PPM):	0.0
SAMPLE MOISTURE CONTENT:	n/a
CAN SERIAL NUMBER:	15529
REGULATOR SERIAL NUMBER:	7361
CAN START VACUUM PRESS. (" HG):	-28
CAN STOP VACUUM PRESS. (" HG):	-4.25

SAMPLE LOCATION SKETCH

See Sample Location Plan

Ambient air sample was centrally located in parking area between SV04 and SV07

NOTES

Sample Name: AA01_043020

Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

APPENDIX F
LABORATORY ANALYTICAL REPORTS

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Dina Palazzolo, Ms.

Report Date: 05/11/2020
Client Project ID: 170610601
York Project (SDG) No.: 20D0776

Report Date: 05/11/2020
Client Project ID: 170610601
York Project (SDG) No.: 20D0776

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Dina Palazzolo, Ms.

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 28, 2020 and listed below. The project was identified as your project: **170610601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
20D0776-01	SB09_0-2	Soil	04/28/2020	04/28/2020
20D0776-02	SB09_4-6	Soil	04/28/2020	04/28/2020
20D0776-03	SB09_13-15	Soil	04/28/2020	04/28/2020
20D0776-04	SB05_0-2	Soil	04/28/2020	04/28/2020
20D0776-05	SB05_6-8	Soil	04/28/2020	04/28/2020
20D0776-06	SB05_18-20	Soil	04/28/2020	04/28/2020
20D0776-07	SB08_0-2	Soil	04/28/2020	04/28/2020
20D0776-08	SB08_4-6	Soil	04/28/2020	04/28/2020
20D0776-09	SB08_13-15	Soil	04/28/2020	04/28/2020
20D0776-10	SOFB_042820	Water	04/28/2020	04/28/2020

General Notes for York Project (SDG) No.: 20D0776

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 05/11/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: SB09_0-2 **York Sample ID:** 20D0776-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:30 pm	04/28/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.71	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 16:55	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*48.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.358	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0674	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0465	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0317	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**0.131**	J	ug/kg dry	0.0789	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0448	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0611	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0524	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.119	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0767	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0445	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0764	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.107	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.107	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**0.211**	J	ug/kg dry	0.0940	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0478	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT

Sample Information

Client Sample ID: SB09_0-2 **York Sample ID:** 20D0776-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:30 pm	04/28/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0504	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0524	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0675	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0262	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.187	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*62.8 %*		*25-150*
Surrogate: M5PFHxA	*65.3 %*		*25-150*
Surrogate: M4PFHpA	*73.4 %*		*25-150*
Surrogate: M3PFHxS	*66.9 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*76.2 %*		*25-150*
Surrogate: M6PFDA	*80.0 %*		*25-150*
Surrogate: M7PFUdA	*67.0 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*63.0 %*		*25-150*
Surrogate: M2PFTeDA	*59.8 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*93.8 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*67.3 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*66.6 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*59.0 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*74.3 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*81.2 %*		*25-150*
Surrogate: M2-6:2 FTS	*170 %*	PFSu-H	*25-150*
Surrogate: M2-8:2 FTS	*206 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*80.3 %*		*25-150*

Sample Information

Client Sample ID: SB09_4-6 **York Sample ID:** 20D0776-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:35 pm	04/28/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.52	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 14:20	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.344	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0647	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0447	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0304	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.140**	J	ug/kg dry	0.0758	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0430	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0587	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0503	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.114	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0736	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0427	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0733	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.102	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.102	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0902	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0458	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT

Sample Information

Client Sample ID: SB09_4-6 **York Sample ID:** 20D0776-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:35 pm	04/28/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0484	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0503	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0648	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0251	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.179	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*69.1 %*	*25-150*
Surrogate: M5PFHxA	*71.9 %*	*25-150*
Surrogate: M4PFHpA	*78.2 %*	*25-150*
Surrogate: M3PFHxS	*72.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*79.1 %*	*25-150*
Surrogate: M6PFDA	*82.6 %*	*25-150*
Surrogate: M7PFUdA	*71.5 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*70.1 %*	*25-150*
Surrogate: M2PFTeDA	*67.9 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*102 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*72.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*71.3 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*57.6 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*72.3 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*72.8 %*	*25-150*
Surrogate: M2-6:2 FTS	*99.7 %*	*25-150*
Surrogate: M2-8:2 FTS	*122 %*	*25-150*
Surrogate: M9PFNA	*84.9 %*	*25-150*

Sample Information

Client Sample ID: SB09_13-15 **York Sample ID:** 20D0776-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:40 pm	04/28/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.35	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 14:38	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*46.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.383	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0720	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0497	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0339	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.401**	J	ug/kg dry	0.0844	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0479	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0654	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0560	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.127	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0820	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0475	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0817	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.114	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.114	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.100	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0510	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT

Sample Information

Client Sample ID: SB09_13-15 **York Sample ID:** 20D0776-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:40 pm	04/28/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0539	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0560	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0721	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0280	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.200	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*61.8 %*		*25-150*
Surrogate: M5PFHxA	*62.8 %*		*25-150*
Surrogate: M4PFHpA	*68.2 %*		*25-150*
Surrogate: M3PFHxS	*63.9 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*70.2 %*		*25-150*
Surrogate: M6PFDA	*75.3 %*		*25-150*
Surrogate: M7PFUdA	*65.0 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*61.5 %*		*25-150*
Surrogate: M2PFTeDA	*66.1 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*90.5 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*62.7 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*61.8 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*60.2 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*73.8 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*90.6 %*		*25-150*
Surrogate: M2-6:2 FTS	*139 %*		*25-150*
Surrogate: M2-8:2 FTS	*259 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*76.6 %*		*25-150*

Sample Information

Client Sample ID: SB05_0-2 **York Sample ID:** 20D0776-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:10 pm	04/28/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.80	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 14:55	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.366	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**0.165**	J	ug/kg dry	0.0690	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**0.0863**	J	ug/kg dry	0.0476	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
355-46-4	*** Perfluorohexanesulfonic acid (PFHxS)**	**0.0411**	J	ug/kg dry	0.0325	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.372**	J	ug/kg dry	0.0808	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**5.30**		ug/kg dry	0.0459	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
375-95-1	*** Perfluorononanoic acid (PFNA)**	**0.0952**	J	ug/kg dry	0.0626	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
335-76-2	*** Perfluorodecanoic acid (PFDA)**	**0.179**	J	ug/kg dry	0.0536	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
2058-94-8	*** Perfluoroundecanoic acid (PFUnA)**	**0.126**	J	ug/kg dry	0.122	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
307-55-1	*** Perfluorododecanoic acid (PFDoA)**	**0.0873**	J	ug/kg dry	0.0785	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
72629-94-8	*** Perfluorotridecanoic acid (PFTrDA)**	**0.0689**	J	ug/kg dry	0.0455	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0782	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.109	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.109	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
2706-90-3	*** Perfluoropentanoic acid (PFPeA)**	**0.369**	J	ug/kg dry	0.0962	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
754-91-6	*** Perfluoro-1-octanesulfonamide (FOSA)**	**0.0541**	J	ug/kg dry	0.0489	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT

Sample Information

Client Sample ID: SB05_0-2 **York Sample ID:** 20D0776-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:10 pm	04/28/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0516	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
335-77-3	*** Perfluoro-1-decanesulfonic acid (PFDS)**	**0.0556**	J	ug/kg dry	0.0536	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0691	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0268	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.191	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*71.6 %*		*25-150*
Surrogate: M5PFHxA	*74.7 %*		*25-150*
Surrogate: M4PFHpA	*77.1 %*		*25-150*
Surrogate: M3PFHxS	*74.7 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*84.4 %*		*25-150*
Surrogate: M6PFDA	*85.3 %*		*25-150*
Surrogate: M7PFUdA	*71.8 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*68.9 %*		*25-150*
Surrogate: M2PFTeDA	*66.6 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*108 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*67.2 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*73.5 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*61.5 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*93.4 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*94.2 %*		*25-150*
Surrogate: M2-6:2 FTS	*309 %*	PFSu-H	*25-150*
Surrogate: M2-8:2 FTS	*300 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*84.9 %*		*25-150*

Sample Information

Client Sample ID: SB05_6-8 **York Sample ID:** 20D0776-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:25 pm	04/28/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.62	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 15:29	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*46.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.381	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0717	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0495	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0337	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.136**	J	ug/kg dry	0.0840	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**0.213**	J	ug/kg dry	0.0477	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0651	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0557	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.127	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0816	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0473	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0813	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.114	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.113	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.100	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0508	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT

Sample Information

Client Sample ID: SB05_6-8 **York Sample ID:** 20D0776-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:25 pm	04/28/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0536	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0557	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0718	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0279	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.199	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*71.3 %*	*25-150*
Surrogate: M5PFHxA	*75.2 %*	*25-150*
Surrogate: M4PFHpA	*79.6 %*	*25-150*
Surrogate: M3PFHxS	*75.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*79.2 %*	*25-150*
Surrogate: M6PFDA	*83.7 %*	*25-150*
Surrogate: M7PFUdA	*76.3 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*74.5 %*	*25-150*
Surrogate: M2PFTeDA	*66.0 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*108 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*73.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*72.2 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*61.4 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*73.1 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*73.1 %*	*25-150*
Surrogate: M2-6:2 FTS	*90.0 %*	*25-150*
Surrogate: M2-8:2 FTS	*102 %*	*25-150*
Surrogate: M9PFNA	*84.6 %*	*25-150*

Sample Information

Client Sample ID: **SB05_18-20** **York Sample ID:** **20D0776-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:45 pm	04/28/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.71	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 15:47	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*46.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.358	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0674	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0465	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0317	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.0871**	J	ug/kg dry	0.0789	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0448	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0611	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0524	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.119	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0767	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0445	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0764	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.107	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.107	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0940	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0477	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT

Sample Information

Client Sample ID: SB05_18-20 **York Sample ID:** 20D0776-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:45 pm	04/28/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0504	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0524	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0675	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0262	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.187	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*74.3 %*	*25-150*
Surrogate: M5PFHxA	*74.6 %*	*25-150*
Surrogate: M4PFHpA	*84.1 %*	*25-150*
Surrogate: M3PFHxS	*76.3 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*79.7 %*	*25-150*
Surrogate: M6PFDA	*79.9 %*	*25-150*
Surrogate: M7PFUdA	*74.9 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*75.8 %*	*25-150*
Surrogate: M2PFTeDA	*71.7 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*114 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*75.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*77.7 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*65.7 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*68.9 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*70.7 %*	*25-150*
Surrogate: M2-6:2 FTS	*84.6 %*	*25-150*
Surrogate: M2-8:2 FTS	*84.0 %*	*25-150*
Surrogate: M9PFNA	*87.7 %*	*25-150*

Sample Information

Client Sample ID: SB08_0-2 **York Sample ID:** 20D0776-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 2:50 pm	04/28/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.90	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 16:04	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.360	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0679	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0468	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0319	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.100**	J	ug/kg dry	0.0795	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**0.0563**	J	ug/kg dry	0.0451	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0616	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0527	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.120	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0772	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0448	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0769	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.107	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.107	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0946	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0481	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT

Sample Information

Client Sample ID: SB08_0-2 **York Sample ID:** 20D0776-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 2:50 pm	04/28/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0508	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0527	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0680	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0264	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.188	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*69.1 %*	*25-150*
Surrogate: M5PFHxA	*70.1 %*	*25-150*
Surrogate: M4PFHpA	*78.9 %*	*25-150*
Surrogate: M3PFHxS	*72.0 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*80.0 %*	*25-150*
Surrogate: M6PFDA	*83.6 %*	*25-150*
Surrogate: M7PFUdA	*76.0 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*72.3 %*	*25-150*
Surrogate: M2PFTeDA	*62.5 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*107 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*73.6 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*69.9 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*64.8 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*78.0 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*77.4 %*	*25-150*
Surrogate: M2-6:2 FTS	*112 %*	*25-150*
Surrogate: M2-8:2 FTS	*128 %*	*25-150*
Surrogate: M9PFNA	*88.8 %*	*25-150*

Sample Information

Client Sample ID: **SB08_4-6** **York Sample ID:** **20D0776-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 2:55 pm	04/28/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.90	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 16:21	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.353	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0665	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0459	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0313	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.0779	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**0.193**	J	ug/kg dry	0.0442	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0604	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0517	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.117	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0757	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0439	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0754	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.105	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.105	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0928	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0471	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT

Sample Information

Client Sample ID: SB08_4-6 **York Sample ID:** 20D0776-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 2:55 pm	04/28/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0498	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0517	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0666	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0258	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.184	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*68.5 %*	*25-150*
Surrogate: M5PFHxA	*72.1 %*	*25-150*
Surrogate: M4PFHpA	*81.7 %*	*25-150*
Surrogate: M3PFHxS	*72.9 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*79.3 %*	*25-150*
Surrogate: M6PFDA	*78.1 %*	*25-150*
Surrogate: M7PFUdA	*74.9 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*67.9 %*	*25-150*
Surrogate: M2PFTeDA	*61.6 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*105 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*73.5 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*72.6 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*66.4 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*74.5 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*73.5 %*	*25-150*
Surrogate: M2-6:2 FTS	*103 %*	*25-150*
Surrogate: M2-8:2 FTS	*76.6 %*	*25-150*
Surrogate: M9PFNA	*84.7 %*	*25-150*

Sample Information

Client Sample ID: SB08_13-15 **York Sample ID:** 20D0776-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 3:00 pm	04/28/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.52	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 16:37	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.493	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0928	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0641	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0436	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.109	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**0.162**	J	ug/kg dry	0.0617	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0842	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0721	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.164	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.106	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0612	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.105	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.147	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.147	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.129	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0657	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT

Sample Information

Client Sample ID: SB08_13-15 **York Sample ID:** 20D0776-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 3:00 pm	04/28/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0694	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0721	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0929	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0360	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.257	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*78.1 %*	*25-150*
Surrogate: M5PFHxA	*78.7 %*	*25-150*
Surrogate: M4PFHpA	*86.8 %*	*25-150*
Surrogate: M3PFHxS	*79.7 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*82.4 %*	*25-150*
Surrogate: M6PFDA	*75.6 %*	*25-150*
Surrogate: M7PFUdA	*65.6 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*62.3 %*	*25-150*
Surrogate: M2PFTeDA	*52.2 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*116 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*76.0 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*78.3 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*59.2 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*64.0 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*61.0 %*	*25-150*
Surrogate: M2-6:2 FTS	*89.8 %*	*25-150*
Surrogate: M2-8:2 FTS	*79.7 %*	*25-150*
Surrogate: M9PFNA	*87.9 %*	*25-150*

Sample Information

Client Sample ID: SOFB_042820 **York Sample ID:** 20D0776-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Water	April 28, 2020 3:10 pm	04/28/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	05/01/2020 07:31	05/05/2020 14:46	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*60.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.294	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
307-24-4	* **Perfluorohexanoic acid (PFHxA)**	**0.647**	J	ng/L	0.471	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.635	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.281	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	0.531	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.292	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	0.574	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	0.524	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	0.657	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.777	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.37	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.531	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	0.529	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	0.557	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**0.842**	J	ng/L	0.452	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.296	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT

Sample Information

Client Sample ID: SOFB_042820 **York Sample ID:** 20D0776-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Water	April 28, 2020 3:10 pm	04/28/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.415	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	0.574	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	PF-CCV-L	ng/L	0.492	5.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	PF-CCV-L	ng/L	0.399	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**2.48**	B	ng/L	1.63	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*69.0 %*	*25-150*
Surrogate: M5PFHxA	*62.1 %*	*25-150*
Surrogate: M4PFHpA	*65.6 %*	*25-150*
Surrogate: M3PFHxS	*66.1 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*59.7 %*	*25-150*
Surrogate: M6PFDA	*60.0 %*	*25-150*
Surrogate: M7PFUdA	*45.5 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*36.4 %*	*25-150*
Surrogate: M2PFTeDA	*17.8 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*98.6 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*63.3 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*65.0 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*68.0 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*47.8 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*44.0 %*	*25-150*
Surrogate: M2-6:2 FTS	*49.4 %*	*25-150*
Surrogate: M2-8:2 FTS	*54.7 %*	*25-150*
Surrogate: M9PFNA	*60.2 %*	*25-150*

Analytical Batch Summary

Batch ID: BD01331 **Preparation Method:** SPE Ext-PFAS-EPA 537.1M **Prepared By:** KT

YORK Sample ID	Client Sample ID	Preparation Date
20D0776-10	SOFB_042820	04/30/20
BD01331-BLK1	Blank	04/30/20
BD01331-BS1	LCS	04/30/20

Batch ID: BE00002 **Preparation Method:** EPA 3550C **Prepared By:** LM

YORK Sample ID	Client Sample ID	Preparation Date
20D0776-01	SB09_0-2	05/01/20
20D0776-02	SB09_4-6	05/01/20
20D0776-03	SB09_13-15	05/01/20
20D0776-04	SB05_0-2	05/01/20
20D0776-05	SB05_6-8	05/01/20
20D0776-06	SB05_18-20	05/01/20
20D0776-07	SB08_0-2	05/01/20
20D0776-08	SB08_4-6	05/01/20
20D0776-09	SB08_13-15	05/01/20
BE00002-BLK1	Blank	05/01/20
BE00002-BS1	LCS	05/01/20
BE00002-MS1	Matrix Spike	05/01/20
BE00002-MSD1	Matrix Spike Dup	05/01/20

Batch ID: BE00004 **Preparation Method:** EPA 3535A **Prepared By:** CTD

YORK Sample ID	Client Sample ID	Preparation Date
20D0776-10	SOFB_042820	05/01/20
BE00004-BLK1	Blank	05/01/20
BE00004-BS1	LCS	05/01/20

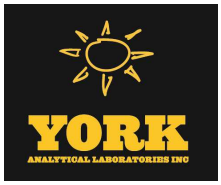
Batch ID: BE00136 **Preparation Method:** SPE PFAS Extraction-Soil-EPA 537m **Prepared By:** KT

YORK Sample ID	Client Sample ID	Preparation Date
20D0776-01	SB09_0-2	05/05/20
20D0776-02	SB09_4-6	05/05/20
20D0776-03	SB09_13-15	05/05/20
20D0776-04	SB05_0-2	05/05/20
20D0776-05	SB05_6-8	05/05/20
20D0776-06	SB05_18-20	05/05/20
20D0776-07	SB08_0-2	05/05/20
20D0776-08	SB08_4-6	05/05/20
20D0776-09	SB08_13-15	05/05/20
BE00136-BLK1	Blank	05/05/20
BE00136-BS1	LCS	05/05/20

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc.

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00002 - EPA 3550C												
Blank (BE00002-BLK1)	Blank								Prepared: 05/01/2020 Analyzed: 05/04/2020			
1,4-Dioxane		ND	9.90	ug/kg								
Surrogate: 1,4-Dioxane-d8		*248*		*"*	*495*		*50.0*	*39-83.1*				
LCS (BE00002-BS1)	LCS								Prepared: 05/01/2020 Analyzed: 05/04/2020			
1,4-Dioxane		425	9.90	ug/kg	495		85.8	40-130				
Surrogate: 1,4-Dioxane-d8		*277*		*"*	*495*		*56.0*	*39-83.1*				
Matrix Spike (BE00002-MS1)	Matrix Spike	*Source sample: 20D0776-09 (SB08_13-15)							Prepared: 05/01/2020 Analyzed: 05/04/2020			
1,4-Dioxane		218	9.90	ug/kg	495	ND	44.0	40-130				
Surrogate: 1,4-Dioxane-d8		*228*		*"*	*495*		*46.0*	*40-130*				
Matrix Spike Dup (BE00002-M	Matrix Spike Dup	*Source sample: 20D0776-09 (SB08_13-15)							Prepared: 05/01/2020 Analyzed: 05/04/2020			
1,4-Dioxane		218	9.90	ug/kg	495	ND	44.0	40-130		0.00	30	
Surrogate: 1,4-Dioxane-d8		*228*		*"*	*495*		*46.0*	*40-130*				
Batch BE00004 - EPA 3535A												
Blank (BE00004-BLK1)	Blank								Prepared: 05/01/2020 Analyzed: 05/05/2020			
1,4-Dioxane		ND	0.200	ug/L								
Surrogate: 1,4-Dioxane-d8		*3.80*		*"*	*5.00*		*76.0*	*36.6-118*				
LCS (BE00004-BS1)	LCS								Prepared: 05/01/2020 Analyzed: 05/05/2020			
1,4-Dioxane		5.00	0.200	ug/L	5.00		100	50-130				
Surrogate: 1,4-Dioxane-d8		*3.40*		*"*	*5.00*		*68.0*	*36.6-118*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

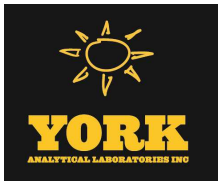
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD01331 - SPE Ext-PFAS-EPA 537.1M											
Blank (BD01331-BLK1) Blank									Prepared: 04/30/2020 Analyzed: 05/06/2020		
Perfluorobutanesulfonic acid (PFBS)	ND	2.00	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	0.862	2.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	0.352	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	5.00	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	2.00	"								
Perfluoro-n-butanoic acid (PFBA)	3.30	2.00	"								
Surrogate: M3PFBS	*51.1*		"	*74.3*		*68.8*	*25-150*				
Surrogate: M5PFHxA	*50.4*		"	*80.0*		*63.0*	*25-150*				
Surrogate: M4PFHpA	*54.1*		"	*80.0*		*67.6*	*25-150*				
Surrogate: M3PFHxS	*52.1*		"	*75.7*		*68.9*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*52.3*		"	*80.0*		*65.4*	*25-150*				
Surrogate: M6PFDA	*51.2*		"	*80.0*		*64.0*	*25-150*				
Surrogate: M7PFUdA	*41.8*		"	*80.0*		*52.2*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*40.2*		"	*80.0*		*50.3*	*25-150*				
Surrogate: M2PFTeDA	*34.1*		"	*80.0*		*42.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*58.2*		"	*80.0*		*72.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*51.7*		"	*76.6*		*67.6*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*46.9*		"	*80.0*		*58.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*57.0*		"	*80.0*		*71.2*	*10-150*				
Surrogate: d3-N-MeFOSAA	*41.7*		"	*80.0*		*52.1*	*25-150*				
Surrogate: d5-N-EtFOSAA	*36.5*		"	*80.0*		*45.6*	*25-150*				
Surrogate: M2-6:2 FTS	*41.2*		"	*75.9*		*54.3*	*25-150*				
Surrogate: M2-8:2 FTS	*44.9*		"	*76.6*		*58.6*	*25-150*				
Surrogate: M9PFNA	*53.8*		"	*80.0*		*67.3*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD01331 - SPE Ext-PFAS-EPA 537.1M											
LCS (BD01331-BS1) LCS									Prepared: 04/30/2020 Analyzed: 05/06/2020		
Perfluorobutanesulfonic acid (PFBS)	60.7	2.00	ng/L	70.8		85.7	50-130				
Perfluorohexanoic acid (PFHxA)	71.4	2.00	"	80.0		89.2	50-130				
Perfluoroheptanoic acid (PFHpA)	68.3	2.00	"	80.0		85.4	50-130				
Perfluorohexanesulfonic acid (PFHxS)	51.6	2.00	"	59.2		87.2	50-130				
Perfluorooctanoic acid (PFOA)	70.4	2.00	"	80.0		88.0	50-130				
Perfluorooctanesulfonic acid (PFOS)	52.6	2.00	"	58.4		90.1	50-130				
Perfluorononanoic acid (PFNA)	61.4	2.00	"	76.8		80.0	50-130				
Perfluorodecanoic acid (PFDA)	69.4	2.00	"	80.0		86.7	50-130				
Perfluoroundecanoic acid (PFUnA)	68.1	2.00	"	80.0		85.2	50-130				
Perfluorododecanoic acid (PFDoA)	60.6	2.00	"	80.0		75.7	50-130				
Perfluorotridecanoic acid (PFTrDA)	65.1	2.00	"	80.0		81.3	50-130				
Perfluorotetradecanoic acid (PFTA)	69.1	2.00	"	80.0		86.4	50-130				
N-MeFOSAA	62.6	2.00	"	80.0		78.3	50-130				
N-EtFOSAA	67.7	2.00	"	80.0		84.6	50-130				
Perfluoropentanoic acid (PFPeA)	68.8	2.00	"	80.0		86.0	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	66.6	2.00	"	80.0		83.2	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	71.2	2.00	"	79.6		89.4	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	63.3	2.00	"	77.2		82.0	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	71.5	5.00	"	76.0		94.1	50-130				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	48.2	2.00	"	76.8		62.8	50-130				
Perfluoro-n-butanoic acid (PFBA)	74.4	2.00	"	80.0		92.9	50-130				
Surrogate: M3PFBS	*56.2*		"	*74.3*		*75.6*	*25-150*				
Surrogate: M5PFHxA	*55.2*		"	*80.0*		*69.0*	*25-150*				
Surrogate: M4PFHpA	*56.0*		"	*80.0*		*70.0*	*25-150*				
Surrogate: M3PFHxS	*55.0*		"	*75.7*		*72.7*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*52.8*		"	*80.0*		*66.1*	*25-150*				
Surrogate: M6PFDA	*54.0*		"	*80.0*		*67.4*	*25-150*				
Surrogate: M7PFUdA	*42.1*		"	*80.0*		*52.6*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*40.7*		"	*80.0*		*50.8*	*25-150*				
Surrogate: M2PFTeDA	*33.6*		"	*80.0*		*42.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*86.9*		"	*80.0*		*109*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*53.7*		"	*76.6*		*70.1*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*57.8*		"	*80.0*		*72.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*62.1*		"	*80.0*		*77.6*	*10-150*				
Surrogate: d3-N-MeFOSAA	*44.5*		"	*80.0*		*55.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*39.6*		"	*80.0*		*49.5*	*25-150*				
Surrogate: M2-6:2 FTS	*45.3*		"	*75.9*		*59.7*	*25-150*				
Surrogate: M2-8:2 FTS	*46.5*		"	*76.6*		*60.7*	*25-150*				
Surrogate: M9PFNA	*54.8*		"	*80.0*		*68.4*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00136 - SPE PFAS Extraction-Soil-EPA 537m											
Blank (BE00136-BLK1) Blank									Prepared: 05/05/2020 Analyzed: 05/09/2020		
Perfluorobutanesulfonic acid (PFBS)	ND	0.490	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.490	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.490	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.490	"								
Perfluorooctanoic acid (PFOA)	ND	0.490	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.490	"								
Perfluorononanoic acid (PFNA)	ND	0.490	"								
Perfluorodecanoic acid (PFDA)	ND	0.490	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.490	"								
Perfluorododecanoic acid (PFDoA)	ND	0.490	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.490	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.490	"								
N-MeFOSAA	ND	0.490	"								
N-EtFOSAA	ND	0.490	"								
Perfluoropentanoic acid (PFPeA)	ND	0.490	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.490	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.490	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.490	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	0.490	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	0.490	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.490	"								
Surrogate: M3PFBS	*3.67*		"	*4.55*		*80.8*	*25-150*				
Surrogate: M5PFHxA	*3.94*		"	*4.90*		*80.6*	*25-150*				
Surrogate: M4PFHpA	*4.15*		"	*4.90*		*84.8*	*25-150*				
Surrogate: M3PFHxS	*3.81*		"	*4.63*		*82.2*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*4.22*		"	*4.90*		*86.2*	*25-150*				
Surrogate: M6PFDA	*4.06*		"	*4.90*		*83.0*	*25-150*				
Surrogate: M7PFUdA	*3.92*		"	*4.90*		*80.0*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*4.28*		"	*4.90*		*87.5*	*25-150*				
Surrogate: M2PFTeDA	*3.99*		"	*4.90*		*81.5*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.63*		"	*4.90*		*115*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*4.01*		"	*4.69*		*85.7*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.93*		"	*4.90*		*80.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.63*		"	*4.90*		*74.1*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.82*		"	*4.90*		*77.9*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.00*		"	*4.90*		*81.7*	*25-150*				
Surrogate: M2-6:2 FTS	*4.34*		"	*4.65*		*93.4*	*25-150*				
Surrogate: M2-8:2 FTS	*4.17*		"	*4.69*		*89.0*	*25-150*				
Surrogate: M9PFNA	*4.63*		"	*4.90*		*94.5*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00136 - SPE PFAS Extraction-Soil-EPA 537m											
LCS (BE00136-BS1) LCS									Prepared: 05/05/2020 Analyzed: 05/09/2020		
Perfluorobutanesulfonic acid (PFBS)	4.24	0.481	ug/kg wet	4.26		99.6	50-130				
Perfluorohexanoic acid (PFHxA)	4.52	0.481	"	4.81		93.9	50-130				
Perfluoroheptanoic acid (PFHpA)	4.23	0.481	"	4.81		87.9	50-130				
Perfluorohexanesulfonic acid (PFHxS)	3.40	0.481	"	3.56		95.6	50-130				
Perfluorooctanoic acid (PFOA)	4.25	0.481	"	4.81		88.3	50-130				
Perfluorooctanesulfonic acid (PFOS)	3.28	0.481	"	3.51		93.5	50-130				
Perfluorononanoic acid (PFNA)	4.04	0.481	"	4.62		87.5	50-130				
Perfluorodecanoic acid (PFDA)	4.48	0.481	"	4.81		93.1	50-130				
Perfluoroundecanoic acid (PFUnA)	4.40	0.481	"	4.81		91.5	50-130				
Perfluorododecanoic acid (PFDoA)	4.48	0.481	"	4.81		93.2	50-130				
Perfluorotridecanoic acid (PFTrDA)	4.38	0.481	"	4.81		91.0	50-130				
Perfluorotetradecanoic acid (PFTA)	4.51	0.481	"	4.81		93.9	50-130				
N-MeFOSAA	4.62	0.481	"	4.81		96.0	50-130				
N-EtFOSAA	4.45	0.481	"	4.81		92.5	50-130				
Perfluoropentanoic acid (PFPeA)	4.44	0.481	"	4.81		92.4	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	4.93	0.481	"	4.81		103	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.84	0.481	"	4.78		101	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	4.02	0.481	"	4.64		86.5	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	3.99	0.481	"	4.57		87.3	50-130				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	5.48	0.481	"	4.62		119	50-130				
Perfluoro-n-butanoic acid (PFBA)	4.57	0.481	"	4.81		95.1	50-130				
Surrogate: M3PFBS	*3.24*		"	*4.47*		*72.6*	*25-150*				
Surrogate: M5PFHxA	*3.47*		"	*4.81*		*72.2*	*25-150*				
Surrogate: M4PFHpA	*3.71*		"	*4.81*		*77.2*	*25-150*				
Surrogate: M3PFHxS	*3.38*		"	*4.55*		*74.2*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.74*		"	*4.81*		*77.7*	*25-150*				
Surrogate: M6PFDA	*3.61*		"	*4.81*		*75.1*	*25-150*				
Surrogate: M7PFUdA	*3.44*		"	*4.81*		*71.6*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*3.47*		"	*4.81*		*72.1*	*25-150*				
Surrogate: M2PFTeDA	*3.41*		"	*4.81*		*70.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.04*		"	*4.81*		*105*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.44*		"	*4.60*		*74.8*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.54*		"	*4.81*		*73.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.16*		"	*4.81*		*65.6*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.51*		"	*4.81*		*73.0*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.22*		"	*4.81*		*66.9*	*25-150*				
Surrogate: M2-6:2 FTS	*3.82*		"	*4.56*		*83.8*	*25-150*				
Surrogate: M2-8:2 FTS	*3.59*		"	*4.61*		*77.9*	*25-150*				
Surrogate: M9PFNA	*4.06*		"	*4.81*		*84.3*	*25-150*				

Sample and Data Qualifiers Relating to This Work Order

PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-CCV-L	The CCV recovery was slightly below acceptable limits for the qualified compound. However, sample results are not biased low because results are corrected for isotope recovery.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 20D0776

Page 1 of ____

YOUR Information	Report To:	Invoice To:
Company: Langan	Company:	Company: Same
Address: 360 West 31st Street New York NY 10001	Address:	Address: Same
Phone: 212 479 5400	Phone:	Phone: same
Contact: Kim Semon	Contact: Dina Palazzolo	Contact: same
E-mail: KSemon@langan.com	E-mail: DPalazzolo@langan.com	E-mail: Same

YOUR Project Number: 170610601

YOUR Project Name: 475 Bay Street

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)
Deirdre Casey

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil ; Other

Samples From
New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB09_0-2	S	4/28/20 1330	VOC, SVOC, PCB, Pest, Herb, TAL Metals (cyanide, hexavalent chromium) PFAS & 1,4-dioxane	4 VOCs, 1 SOC 1 407
SB09_4-6	S	4/28/20 1335		
SB09_13-15	S	4/28/20 1340		
SB05_0-2	S	4/28/20 1310		
SB05_6-8	S	4/28/20 1325		
SB05_18-20	S	4/28/20 1345		
SB08_0-2	S	4/28/20 1450		
~~SB08_6-8~~ SB08_4-6	S	4/28/20 1455		
SB08_13-15	S	4/28/20 1500		
SOFB01_042820	QA/QC	4/28/20 1510		4 (L), 3 VOA, 1 1000, 4 202

Comments:
Low volume SB08 (0-2, 6-4, 13-15)

Preservation: (check all that apply)
HCl X MeOH X HNO3 X H2SO4 ___ NaOH X ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Deirdre Casey Langan	4/28/20 1520	E Sylvia	4/28/20	E Sylvia	4/28/20 1900
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				TC Mahler	4/28/20 1900 / 2.6 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Dina Palazzolo, Ms.

Report Date: 05/12/2020
Client Project ID: 170610601
York Project (SDG) No.: 20D0818

Report Date: 05/12/2020
Client Project ID: 170610601
York Project (SDG) No.: 20D0818

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Dina Palazzolo, Ms.

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 29, 2020 and listed below. The project was identified as your project: **170610601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
20D0818-01	SB04_0-2	Soil	04/29/2020	04/29/2020
20D0818-03	SB04_14-16	Soil	04/29/2020	04/29/2020
20D0818-04	SB04_18-20	Soil	04/29/2020	04/29/2020
20D0818-05	SB06_0-2	Soil	04/29/2020	04/29/2020
20D0818-06	SB06_5-7	Soil	04/29/2020	04/29/2020
20D0818-07	SB06_12-14	Soil	04/29/2020	04/29/2020
20D0818-09	SB07_0-2	Soil	04/29/2020	04/29/2020
20D0818-10	SB07_8-10	Soil	04/29/2020	04/29/2020
20D0818-11	SB07_18-20	Soil	04/29/2020	04/29/2020
20D0818-12	SODUP01_042920	Soil	04/29/2020	04/29/2020

General Notes for York Project (SDG) No.: 20D0818

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 05/12/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: SB04_0-2 **York Sample ID:** 20D0818-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 2:10 pm	04/29/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.71	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 17:12	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*40.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.365	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**0.148**	J	ug/kg dry	0.0687	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**0.200**	J	ug/kg dry	0.0474	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0323	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.311**	J	ug/kg dry	0.0804	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**2.48**		ug/kg dry	0.0456	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
375-95-1	*** Perfluorononanoic acid (PFNA)**	**0.145**	J	ug/kg dry	0.0623	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
335-76-2	*** Perfluorodecanoic acid (PFDA)**	**0.153**	J	ug/kg dry	0.0533	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
2058-94-8	*** Perfluoroundecanoic acid (PFUnA)**	**0.183**	J	ug/kg dry	0.121	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
307-55-1	*** Perfluorododecanoic acid (PFDoA)**	**0.125**	J	ug/kg dry	0.0781	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
72629-94-8	*** Perfluorotridecanoic acid (PFTrDA)**	**0.0869**	J	ug/kg dry	0.0453	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
376-06-7	*** Perfluorotetradecanoic acid (PFTA)**	**0.0856**	J	ug/kg dry	0.0778	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.109	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
2991-50-6	*** N-EtFOSAA**	**0.114**	J	ug/kg dry	0.109	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
2706-90-3	*** Perfluoropentanoic acid (PFPeA)**	**0.118**	J	ug/kg dry	0.0958	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0487	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT

Sample Information

Client Sample ID: SB04_0-2 **York Sample ID:** 20D0818-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 2:10 pm	04/29/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0514	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
335-77-3	*** Perfluoro-1-decanesulfonic acid (PFDS)**	**0.0745**	J	ug/kg dry	0.0533	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0688	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
39108-34-4	*** 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)**	**0.0308**	J	ug/kg dry	0.0267	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**1.28**		ug/kg dry	0.190	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*58.5 %*		*25-150*
Surrogate: M5PFHxA	*55.8 %*		*25-150*
Surrogate: M4PFHpA	*73.3 %*		*25-150*
Surrogate: M3PFHxS	*61.9 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*66.2 %*		*25-150*
Surrogate: M6PFDA	*66.6 %*		*25-150*
Surrogate: M7PFUdA	*62.4 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*52.5 %*		*25-150*
Surrogate: M2PFTeDA	*49.0 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*76.1 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*61.0 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*53.8 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*40.9 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*85.7 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*87.4 %*		*25-150*
Surrogate: M2-6:2 FTS	*279 %*	PFSu-H	*25-150*
Surrogate: M2-8:2 FTS	*304 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*68.6 %*		*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.8**		%	0.100	1	SM 2540G Certifications: CTDOH	04/30/2020 08:57	04/30/2020 13:00	STN

Sample Information

Client Sample ID: SB04_14-16 **York Sample ID:** 20D0818-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 2:20 pm	04/29/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.52	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 17:29	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*46.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.369	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
307-24-4	* **Perfluorohexanoic acid (PFHxA)**	**0.0849**	J	ug/kg dry	0.0695	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
375-85-9	* **Perfluoroheptanoic acid (PFHpA)**	**0.119**	J	ug/kg dry	0.0480	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0327	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**0.104**	J	ug/kg dry	0.0814	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0462	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0631	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0540	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.123	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0791	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0459	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0788	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.110	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.110	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0969	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0492	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT

Sample Information

Client Sample ID: SB04_14-16 **York Sample ID:** 20D0818-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 2:20 pm	04/29/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0520	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0540	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0696	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0270	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**0.214**	J	ug/kg dry	0.193	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*68.9 %*	*25-150*
Surrogate: M5PFHxA	*66.6 %*	*25-150*
Surrogate: M4PFHpA	*94.0 %*	*25-150*
Surrogate: M3PFHxS	*72.7 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*73.9 %*	*25-150*
Surrogate: M6PFDA	*76.0 %*	*25-150*
Surrogate: M7PFUdA	*78.0 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*74.4 %*	*25-150*
Surrogate: M2PFTeDA	*75.2 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*91.7 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*74.0 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*66.1 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*70.0 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*79.9 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*87.5 %*	*25-150*
Surrogate: M2-6:2 FTS	*77.4 %*	*25-150*
Surrogate: M2-8:2 FTS	*92.9 %*	*25-150*
Surrogate: M9PFNA	*81.3 %*	*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.3**		%	0.100	1	SM 2540G Certifications: CTDOH	04/30/2020 08:57	04/30/2020 13:00	STN

Sample Information

Client Sample ID: SB04_18-20 **York Sample ID:** 20D0818-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 2:25 pm	04/29/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.80	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 17:46	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*40.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.590	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**0.197**	J	ug/kg dry	0.111	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**0.232**	J	ug/kg dry	0.0767	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0523	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.340**	J	ug/kg dry	0.130	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0739	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.101	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0864	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.196	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.126	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0734	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.126	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.176	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.176	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.155	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0788	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT

Sample Information

Client Sample ID: SB04_18-20 **York Sample ID:** 20D0818-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 2:25 pm	04/29/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0831	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0864	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.111	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0432	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**0.591**	J	ug/kg dry	0.308	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*57.5 %*		*25-150*
Surrogate: M5PFHxA	*54.1 %*		*25-150*
Surrogate: M4PFHpA	*75.5 %*		*25-150*
Surrogate: M3PFHxS	*61.6 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*62.4 %*		*25-150*
Surrogate: M6PFDA	*69.9 %*		*25-150*
Surrogate: M7PFUdA	*64.0 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*61.1 %*		*25-150*
Surrogate: M2PFTeDA	*60.7 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*75.3 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*61.6 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*52.5 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*58.4 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*83.4 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*91.8 %*		*25-150*
Surrogate: M2-6:2 FTS	*145 %*		*25-150*
Surrogate: M2-8:2 FTS	*297 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*68.5 %*		*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**58.3**		%	0.100	1	SM 2540G Certifications: CTDOH	04/30/2020 10:41	04/30/2020 13:03	STN

Sample Information

Client Sample ID: SB06_0-2 **York Sample ID:** 20D0818-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 9:00 am	04/29/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.90	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 18:04	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.377	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**0.108**	J	ug/kg dry	0.0709	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**0.0962**	J	ug/kg dry	0.0489	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0334	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.0935**	J	ug/kg dry	0.0831	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**0.468**	J	ug/kg dry	0.0471	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0643	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
335-76-2	*** Perfluorodecanoic acid (PFDA)**	**0.434**	J	ug/kg dry	0.0551	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
2058-94-8	*** Perfluoroundecanoic acid (PFUnA)**	**0.381**	J	ug/kg dry	0.125	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
307-55-1	*** Perfluorododecanoic acid (PFDoA)**	**0.111**	J	ug/kg dry	0.0807	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0468	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0804	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.112	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.112	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0989	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
754-91-6	*** Perfluoro-1-octanesulfonamide (FOSA)**	**0.125**	J	ug/kg dry	0.0502	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT

Sample Information

Client Sample ID: SB06_0-2 **York Sample ID:** 20D0818-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 9:00 am	04/29/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0530	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
335-77-3	*** Perfluoro-1-decanesulfonic acid (PFDS)**	**0.101**	J	ug/kg dry	0.0551	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0710	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
39108-34-4	* **1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)**	**0.0629**	J	ug/kg dry	0.0275	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**0.197**	J	ug/kg dry	0.197	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*60.1 %*	*25-150*
Surrogate: M5PFHxA	*58.2 %*	*25-150*
Surrogate: M4PFHpA	*83.2 %*	*25-150*
Surrogate: M3PFHxS	*63.6 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*64.7 %*	*25-150*
Surrogate: M6PFDA	*60.4 %*	*25-150*
Surrogate: M7PFUdA	*59.0 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*56.4 %*	*25-150*
Surrogate: M2PFTeDA	*56.9 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*83.4 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*58.3 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*58.9 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*56.9 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*58.6 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*66.9 %*	*25-150*
Surrogate: M2-6:2 FTS	*72.4 %*	*25-150*
Surrogate: M2-8:2 FTS	*74.9 %*	*25-150*
Surrogate: M9PFNA	*69.2 %*	*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.1**		%	0.100	1	SM 2540G Certifications: CTDOH	04/30/2020 08:57	04/30/2020 13:00	STN

Sample Information

Client Sample ID: SB06_5-7 **York Sample ID:** 20D0818-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 9:05 am	04/29/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.71	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 18:38	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*42.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.412	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**0.0845**	J	ug/kg dry	0.0776	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**0.101**	J	ug/kg dry	0.0536	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0365	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.118**	J	ug/kg dry	0.0909	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**0.207**	J	ug/kg dry	0.0516	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0704	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0603	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.137	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0883	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0512	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0879	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.123	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.123	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.108	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0550	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT

Sample Information

Client Sample ID: SB06_5-7 **York Sample ID:** 20D0818-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 9:05 am	04/29/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0580	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0603	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0777	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0301	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.215	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*56.9 %*	*25-150*
Surrogate: M5PFHxA	*56.4 %*	*25-150*
Surrogate: M4PFHpA	*79.8 %*	*25-150*
Surrogate: M3PFHxS	*60.8 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*63.9 %*	*25-150*
Surrogate: M6PFDA	*66.1 %*	*25-150*
Surrogate: M7PFUdA	*61.2 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*62.7 %*	*25-150*
Surrogate: M2PFTeDA	*63.0 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*78.0 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*59.6 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*56.2 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*57.5 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*71.1 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*77.7 %*	*25-150*
Surrogate: M2-6:2 FTS	*76.3 %*	*25-150*
Surrogate: M2-8:2 FTS	*101 %*	*25-150*
Surrogate: M9PFNA	*70.9 %*	*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**80.4**		%	0.100	1	SM 2540G Certifications: CTDOH	04/30/2020 08:57	04/30/2020 13:00	STN

Sample Information

Client Sample ID: **SB06_12-14** **York Sample ID:** **20D0818-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 9:10 am	04/29/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.35	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 18:55	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*48.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.370	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**0.0864**	J	ug/kg dry	0.0697	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**0.0682**	J	ug/kg dry	0.0481	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0328	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.181**	J	ug/kg dry	0.0816	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0463	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0632	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0541	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.123	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0793	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0460	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0790	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.110	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.110	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0972	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0494	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT

Sample Information

Client Sample ID: SB06_12-14 **York Sample ID:** 20D0818-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 9:10 am	04/29/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0521	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0541	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0698	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0271	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.193	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*66.8 %*	*25-150*
Surrogate: M5PFHxA	*62.7 %*	*25-150*
Surrogate: M4PFHpA	*88.5 %*	*25-150*
Surrogate: M3PFHxS	*70.6 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*68.2 %*	*25-150*
Surrogate: M6PFDA	*77.6 %*	*25-150*
Surrogate: M7PFUdA	*67.0 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*62.9 %*	*25-150*
Surrogate: M2PFTeDA	*60.0 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*89.6 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*69.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*63.2 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*67.7 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*68.9 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*74.3 %*	*25-150*
Surrogate: M2-6:2 FTS	*69.2 %*	*25-150*
Surrogate: M2-8:2 FTS	*85.8 %*	*25-150*
Surrogate: M9PFNA	*73.3 %*	*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**86.1**		%	0.100	1	SM 2540G Certifications: CTDOH	04/30/2020 08:57	04/30/2020 13:00	STN

Sample Information

Client Sample ID: SB07_0-2 **York Sample ID:** 20D0818-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 11:45 am	04/29/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.71	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 19:12	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.377	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**0.268**	J	ug/kg dry	0.0709	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**0.157**	J	ug/kg dry	0.0490	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0334	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.148**	J	ug/kg dry	0.0831	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**1.68**		ug/kg dry	0.0472	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0644	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
335-76-2	*** Perfluorodecanoic acid (PFDA)**	**0.172**	J	ug/kg dry	0.0551	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.125	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
307-55-1	*** Perfluorododecanoic acid (PFDoA)**	**0.0903**	J	ug/kg dry	0.0807	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0468	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0804	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.112	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.112	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
2706-90-3	*** Perfluoropentanoic acid (PFPeA)**	**0.155**	J	ug/kg dry	0.0989	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0503	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT

Sample Information

Client Sample ID: **SB07_0-2** **York Sample ID:** **20D0818-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 11:45 am	04/29/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0531	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
335-77-3	*** Perfluoro-1-decanesulfonic acid (PFDS)**	**0.0652**	J	ug/kg dry	0.0551	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0711	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0276	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**0.264**	J	ug/kg dry	0.197	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*57.0 %*		*25-150*
Surrogate: M5PFHxA	*54.1 %*		*25-150*
Surrogate: M4PFHpA	*73.6 %*		*25-150*
Surrogate: M3PFHxS	*58.9 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*63.8 %*		*25-150*
Surrogate: M6PFDA	*60.0 %*		*25-150*
Surrogate: M7PFUdA	*46.3 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*31.2 %*		*25-150*
Surrogate: M2PFTeDA	*23.1 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*78.6 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*56.1 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*52.4 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*15.4 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*59.5 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*54.0 %*		*25-150*
Surrogate: M2-6:2 FTS	*151 %*	PFSu-H	*25-150*
Surrogate: M2-8:2 FTS	*145 %*		*25-150*
Surrogate: M9PFNA	*67.2 %*		*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.8**		%	0.100	1	SM 2540G Certifications: CTDOH	04/30/2020 10:41	04/30/2020 13:03	STN

Sample Information

Client Sample ID: SB07_8-10 **York Sample ID:** 20D0818-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 11:50 am	04/29/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.90	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 19:29	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.386	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**0.0994**	J	ug/kg dry	0.0727	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**0.136**	J	ug/kg dry	0.0502	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0342	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.0851	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0483	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0660	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0565	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.128	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0827	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0480	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0824	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.115	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.115	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.101	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0515	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT

Sample Information

Client Sample ID: SB07_8-10 **York Sample ID:** 20D0818-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 11:50 am	04/29/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0544	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0565	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0728	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0282	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.202	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*63.6 %*	*25-150*
Surrogate: M5PFHxA	*60.9 %*	*25-150*
Surrogate: M4PFHpA	*80.0 %*	*25-150*
Surrogate: M3PFHxS	*67.7 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*65.0 %*	*25-150*
Surrogate: M6PFDA	*69.5 %*	*25-150*
Surrogate: M7PFUdA	*65.6 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*60.5 %*	*25-150*
Surrogate: M2PFTeDA	*59.7 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*87.9 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*68.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*60.4 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*52.3 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*72.0 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*68.0 %*	*25-150*
Surrogate: M2-6:2 FTS	*75.1 %*	*25-150*
Surrogate: M2-8:2 FTS	*69.1 %*	*25-150*
Surrogate: M9PFNA	*72.8 %*	*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**86.8**		%	0.100	1	SM 2540G Certifications: CTDOH	04/30/2020 10:41	04/30/2020 13:03	STN

Sample Information

Client Sample ID: **SB07_18-20** **York Sample ID:** **20D0818-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 11:55 am	04/29/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.35	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 19:46	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*42.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.441	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**0.123**	J	ug/kg dry	0.0830	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**0.138**	J	ug/kg dry	0.0573	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0390	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.152**	J	ug/kg dry	0.0972	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0552	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0753	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0645	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.146	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0945	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0548	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0941	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.131	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.131	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.116	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0588	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT

Sample Information

Client Sample ID: SB07_18-20 **York Sample ID:** 20D0818-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 11:55 am	04/29/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0621	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0645	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0831	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0322	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.230	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*67.5 %*		*25-150*
Surrogate: M5PFHxA	*62.4 %*		*25-150*
Surrogate: M4PFHpA	*86.1 %*		*25-150*
Surrogate: M3PFHxS	*70.1 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*68.2 %*		*25-150*
Surrogate: M6PFDA	*81.9 %*		*25-150*
Surrogate: M7PFUdA	*75.4 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*64.9 %*		*25-150*
Surrogate: M2PFTeDA	*67.9 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*89.9 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*72.6 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*61.5 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*54.5 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*72.3 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*90.3 %*		*25-150*
Surrogate: M2-6:2 FTS	*82.2 %*		*25-150*
Surrogate: M2-8:2 FTS	*203 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*75.9 %*		*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**77.3**		%	0.100	1	SM 2540G Certifications: CTDOH	04/30/2020 10:41	04/30/2020 13:03	STN

Sample Information

Client Sample ID: SODUP01_042920 **York Sample ID:** 20D0818-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 12:00 am	04/29/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.43	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/05/2020 07:40	05/06/2020 12:12	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*54.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.384	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**0.427**	J	ug/kg dry	0.0724	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**0.181**	J	ug/kg dry	0.0500	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0341	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.274**	J	ug/kg dry	0.0848	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**2.15**		ug/kg dry	0.0481	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
375-95-1	*** Perfluorononanoic acid (PFNA)**	**0.115**	J	ug/kg dry	0.0657	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
335-76-2	*** Perfluorodecanoic acid (PFDA)**	**0.182**	J	ug/kg dry	0.0562	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
2058-94-8	*** Perfluoroundecanoic acid (PFUnA)**	**0.149**	J	ug/kg dry	0.128	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0824	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0478	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
376-06-7	*** Perfluorotetradecanoic acid (PFTA)**	**0.111**	J	ug/kg dry	0.0821	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.115	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.114	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
2706-90-3	*** Perfluoropentanoic acid (PFPeA)**	**0.198**	J	ug/kg dry	0.101	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
754-91-6	*** Perfluoro-1-octanesulfonamide (FOSA)**	**0.0845**	J	ug/kg dry	0.0513	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT

Sample Information

Client Sample ID: SODUP01_042920 **York Sample ID:** 20D0818-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 12:00 am	04/29/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0542	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0562	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0725	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0281	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**1.12**		ug/kg dry	0.201	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*59.3 %*		*25-150*
Surrogate: M5PFHxA	*51.7 %*		*25-150*
Surrogate: M4PFHpA	*73.0 %*		*25-150*
Surrogate: M3PFHxS	*61.5 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*66.9 %*		*25-150*
Surrogate: M6PFDA	*49.8 %*		*25-150*
Surrogate: M7PFUdA	*32.5 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*15.0 %*	PFSu-L	*25-150*
Surrogate: M2PFTeDA	*3.63 %*	PFSu-L	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*84.2 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*49.3 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*57.0 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*0.361 %*	PFSu-L	*10-150*
Surrogate: d3-N-MeFOSAA	*41.4 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*32.4 %*		*25-150*
Surrogate: M2-6:2 FTS	*249 %*	PFSu-H	*25-150*
Surrogate: M2-8:2 FTS	*151 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*67.0 %*		*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.1**		%	0.100	1	SM 2540G Certifications: CTDOH	04/30/2020 10:41	04/30/2020 13:03	STN

Analytical Batch Summary

Batch ID: BD01298 **Preparation Method:** % Solids Prep **Prepared By:** TJM

YORK Sample ID	Client Sample ID	Preparation Date
20D0818-01	SB04_0-2	04/30/20
20D0818-03	SB04_14-16	04/30/20
20D0818-05	SB06_0-2	04/30/20
20D0818-06	SB06_5-7	04/30/20
20D0818-07	SB06_12-14	04/30/20
BD01298-DUP1	Duplicate	04/30/20

Batch ID: BD01313 **Preparation Method:** % Solids Prep **Prepared By:** TJM

YORK Sample ID	Client Sample ID	Preparation Date
20D0818-04	SB04_18-20	04/30/20
20D0818-09	SB07_0-2	04/30/20
20D0818-10	SB07_8-10	04/30/20
20D0818-11	SB07_18-20	04/30/20
20D0818-12	SODUP01_042920	04/30/20
BD01313-DUP1	Duplicate	04/30/20

Batch ID: BE00002 **Preparation Method:** EPA 3550C **Prepared By:** LM

YORK Sample ID	Client Sample ID	Preparation Date
20D0818-01	SB04_0-2	05/01/20
20D0818-03	SB04_14-16	05/01/20
20D0818-04	SB04_18-20	05/01/20
20D0818-05	SB06_0-2	05/01/20
20D0818-06	SB06_5-7	05/01/20
20D0818-07	SB06_12-14	05/01/20
20D0818-09	SB07_0-2	05/01/20
20D0818-10	SB07_8-10	05/01/20
20D0818-11	SB07_18-20	05/01/20
BE00002-BLK1	Blank	05/01/20
BE00002-BS1	LCS	05/01/20

Batch ID: BE00118 **Preparation Method:** EPA 3550C **Prepared By:** LM

YORK Sample ID	Client Sample ID	Preparation Date
20D0818-12	SODUP01_042920	05/05/20
BE00118-BLK1	Blank	05/05/20
BE00118-BS1	LCS	05/05/20

Batch ID: BE00266 **Preparation Method:** SPE PFAS Extraction-Soil-EPA 537m **Prepared By:** KHA

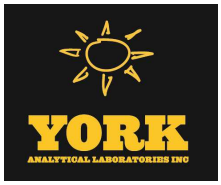
YORK Sample ID	Client Sample ID	Preparation Date
20D0818-01	SB04_0-2	05/07/20

20D0818-03	SB04_14-16	05/07/20
20D0818-04	SB04_18-20	05/07/20
20D0818-05	SB06_0-2	05/07/20
20D0818-06	SB06_5-7	05/07/20
20D0818-07	SB06_12-14	05/07/20
20D0818-09	SB07_0-2	05/07/20
20D0818-10	SB07_8-10	05/07/20
20D0818-11	SB07_18-20	05/07/20
20D0818-12	SODUP01_042920	05/07/20
BE00266-BLK1	Blank	05/07/20
BE00266-BS1	LCS	05/07/20
BE00266-MS1	Matrix Spike	05/07/20
BE00266-MSD1	Matrix Spike Dup	05/07/20

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc.

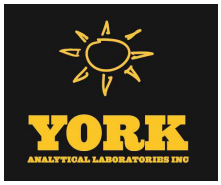
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00002 - EPA 3550C											
Blank (BE00002-BLK1) Blank									Prepared: 05/01/2020 Analyzed: 05/04/2020		
1,4-Dioxane	ND	9.90	ug/kg								
Surrogate: 1,4-Dioxane-d8	*248*		*"*	*495*		*50.0*	*39-83.1*				
LCS (BE00002-BS1) LCS									Prepared: 05/01/2020 Analyzed: 05/04/2020		
1,4-Dioxane	425	9.90	ug/kg	495		85.8	40-130				
Surrogate: 1,4-Dioxane-d8	*277*		*"*	*495*		*56.0*	*39-83.1*				
Batch BE00118 - EPA 3550C											
Blank (BE00118-BLK1) Blank									Prepared: 05/05/2020 Analyzed: 05/06/2020		
1,4-Dioxane	ND	9.90	ug/kg								
Surrogate: 1,4-Dioxane-d8	*356*		*"*	*495*		*72.0*	*39-83.1*				
LCS (BE00118-BS1) LCS									Prepared: 05/05/2020 Analyzed: 05/06/2020		
1,4-Dioxane	455	9.90	ug/kg	495		92.0	40-130				
Surrogate: 1,4-Dioxane-d8	*624*		*"*	*495*		*126*	*39-83.1*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

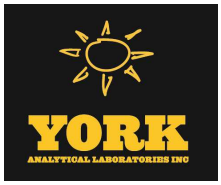
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00266 - SPE PFAS Extraction-Soil-EPA 537m											
Blank (BE00266-BLK1) Blank									Prepared: 05/07/2020 Analyzed: 05/11/2020		
Perfluorobutanesulfonic acid (PFBS)	ND	0.478	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	0.0901	0.478	"								
Perfluoroheptanoic acid (PFHpA)	0.102	0.478	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.478	"								
Perfluorooctanoic acid (PFOA)	ND	0.478	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.478	"								
Perfluorononanoic acid (PFNA)	ND	0.478	"								
Perfluorodecanoic acid (PFDA)	ND	0.478	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.478	"								
Perfluorododecanoic acid (PFDoA)	ND	0.478	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.478	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.478	"								
N-MeFOSAA	ND	0.478	"								
N-EtFOSAA	ND	0.478	"								
Perfluoropentanoic acid (PFPeA)	ND	0.478	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.478	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.478	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.478	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	0.478	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	0.0363	0.478	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.478	"								
Surrogate: M3PFBS	*3.28*		"	*4.44*		*74.0*	*25-150*				
Surrogate: M5PFHxA	*3.42*		"	*4.78*		*71.5*	*25-150*				
Surrogate: M4PFHpA	*4.74*		"	*4.78*		*99.3*	*25-150*				
Surrogate: M3PFHxS	*3.69*		"	*4.52*		*81.5*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.84*		"	*4.78*		*80.3*	*25-150*				
Surrogate: M6PFDA	*3.92*		"	*4.78*		*82.0*	*25-150*				
Surrogate: M7PFUdA	*3.55*		"	*4.78*		*74.2*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*2.94*		"	*4.78*		*61.5*	*25-150*				
Surrogate: M2PFTeDA	*3.42*		"	*4.78*		*71.7*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.60*		"	*4.78*		*96.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.74*		"	*4.57*		*81.9*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.37*		"	*4.78*		*70.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.53*		"	*4.78*		*73.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.58*		"	*4.78*		*74.9*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.01*		"	*4.78*		*84.0*	*25-150*				
Surrogate: M2-6:2 FTS	*5.61*		"	*4.53*		*124*	*25-150*				
Surrogate: M2-8:2 FTS	*5.09*		"	*4.58*		*111*	*25-150*				
Surrogate: M9PFNA	*4.06*		"	*4.78*		*85.0*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

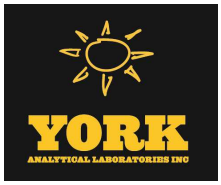
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00266 - SPE PFAS Extraction-Soil-EPA 537m											
LCS (BE00266-BS1) LCS								Prepared: 05/07/2020 Analyzed: 05/11/2020			
Perfluorobutanesulfonic acid (PFBS)	4.55	0.478	ug/kg wet	4.23		108	50-130				
Perfluorohexanoic acid (PFHxA)	4.76	0.478	"	4.78		99.6	50-130				
Perfluoroheptanoic acid (PFHpA)	3.74	0.478	"	4.78		78.2	50-130				
Perfluorohexanesulfonic acid (PFHxS)	3.69	0.478	"	3.53		104	50-130				
Perfluorooctanoic acid (PFOA)	5.02	0.478	"	4.78		105	50-130				
Perfluorooctanesulfonic acid (PFOS)	3.74	0.478	"	3.49		107	50-130				
Perfluorononanoic acid (PFNA)	4.62	0.478	"	4.59		101	50-130				
Perfluorodecanoic acid (PFDA)	4.82	0.478	"	4.78		101	50-130				
Perfluoroundecanoic acid (PFUnA)	5.09	0.478	"	4.78		107	50-130				
Perfluorododecanoic acid (PFDoA)	4.99	0.478	"	4.78		104	50-130				
Perfluorotridecanoic acid (PFTrDA)	4.67	0.478	"	4.78		97.7	50-130				
Perfluorotetradecanoic acid (PFTA)	4.97	0.478	"	4.78		104	50-130				
N-MeFOSAA	4.47	0.478	"	4.78		93.7	50-130				
N-EtFOSAA	4.56	0.478	"	4.78		95.4	50-130				
Perfluoropentanoic acid (PFPeA)	4.79	0.478	"	4.78		100	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	5.13	0.478	"	4.78		107	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.27	0.478	"	4.75		111	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	4.14	0.478	"	4.61		89.9	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	4.66	0.478	"	4.54		103	50-130				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	5.27	0.478	"	4.59		115	50-130				
Perfluoro-n-butanoic acid (PFBA)	5.03	0.478	"	4.78		105	50-130				
Surrogate: M3PFBS	*3.19*		*"*	*4.44*		*71.9*	*25-150*				
Surrogate: M5PFHxA	*3.27*		*"*	*4.78*		*68.5*	*25-150*				
Surrogate: M4PFHpA	*4.49*		*"*	*4.78*		*94.0*	*25-150*				
Surrogate: M3PFHxS	*3.49*		*"*	*4.52*		*77.3*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.42*		*"*	*4.78*		*71.6*	*25-150*				
Surrogate: M6PFDA	*3.45*		*"*	*4.78*		*72.2*	*25-150*				
Surrogate: M7PFUdA	*3.37*		*"*	*4.78*		*70.6*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*3.44*		*"*	*4.78*		*72.0*	*25-150*				
Surrogate: M2PFTeDA	*3.32*		*"*	*4.78*		*69.5*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.39*		*"*	*4.78*		*92.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.47*		*"*	*4.57*		*75.9*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.06*		*"*	*4.78*		*64.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.65*		*"*	*4.78*		*76.3*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.95*		*"*	*4.78*		*82.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.81*		*"*	*4.78*		*79.8*	*25-150*				
Surrogate: M2-6:2 FTS	*4.13*		*"*	*4.53*		*91.1*	*25-150*				
Surrogate: M2-8:2 FTS	*3.84*		*"*	*4.58*		*84.0*	*25-150*				
Surrogate: M9PFNA	*3.62*		*"*	*4.78*		*75.9*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00266 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike (BE00266-MS1) Matrix Spike	*Source sample: 20D0818-01 (SB04_0-2)								Prepared: 05/07/2020 Analyzed: 05/11/2020		
Perfluorobutanesulfonic acid (PFBS)	4.74	0.525	ug/kg dry	4.65	ND	102	25-150				
Perfluorohexanoic acid (PFHxA)	4.97	0.525	"	5.25	0.148	91.7	25-150				
Perfluoroheptanoic acid (PFHpA)	4.22	0.525	"	5.25	0.200	76.5	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.39	0.525	"	3.89	ND	113	25-150				
Perfluorooctanoic acid (PFOA)	4.99	0.525	"	5.25	0.311	89.1	25-150				
Perfluorooctanesulfonic acid (PFOS)	8.21	0.525	"	3.84	2.48	149	25-150				
Perfluorononanoic acid (PFNA)	4.84	0.525	"	5.04	0.145	93.1	25-150				
Perfluorodecanoic acid (PFDA)	4.69	0.525	"	5.25	0.153	86.4	25-150				
Perfluoroundecanoic acid (PFUnA)	5.02	0.525	"	5.25	0.183	92.0	25-150				
Perfluorododecanoic acid (PFDoA)	4.92	0.525	"	5.25	0.125	91.2	25-150				
Perfluorotridecanoic acid (PFTrDA)	4.51	0.525	"	5.25	0.0869	84.2	25-150				
Perfluorotetradecanoic acid (PFTA)	4.94	0.525	"	5.25	0.0856	92.5	25-150				
N-MeFOSAA	4.53	0.525	"	5.25	ND	86.3	25-150				
N-EtFOSAA	5.33	0.525	"	5.25	0.114	99.3	25-150				
Perfluoropentanoic acid (PFPeA)	4.81	0.525	"	5.25	0.118	89.3	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	5.15	0.525	"	5.25	ND	98.1	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.85	0.525	"	5.23	ND	112	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	4.25	0.525	"	5.07	0.0745	82.4	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	4.35	0.525	"	4.99	ND	87.1	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	5.86	0.525	"	5.04	0.0308	116	25-150				
Perfluoro-n-butanoic acid (PFBA)	6.37	0.525	"	5.25	1.28	97.0	25-150				
Surrogate: M3PFBS	*2.94*		"	*4.88*		*60.1*	*25-150*				
Surrogate: M5PFHxA	*3.01*		"	*5.25*		*57.2*	*25-150*				
Surrogate: M4PFHpA	*3.92*		"	*5.25*		*74.7*	*25-150*				
Surrogate: M3PFHxS	*3.18*		"	*4.97*		*63.9*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.60*		"	*5.25*		*68.6*	*25-150*				
Surrogate: M6PFDA	*3.62*		"	*5.25*		*69.0*	*25-150*				
Surrogate: M7PFUdA	*3.22*		"	*5.25*		*61.2*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*2.85*		"	*5.25*		*54.2*	*25-150*				
Surrogate: M2PFTeDA	*2.68*		"	*5.25*		*51.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.05*		"	*5.25*		*77.1*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.82*		"	*5.03*		*56.1*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.00*		"	*5.25*		*57.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.60*		"	*5.25*		*49.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.76*		"	*5.25*		*90.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.73*		"	*5.25*		*89.9*	*25-150*				
Surrogate: M2-6:2 FTS	*15.1*		"	*4.99*		*302*	*25-150*				
Surrogate: M2-8:2 FTS	*15.3*		"	*5.03*		*303*	*25-150*				
Surrogate: M9PFNA	*3.64*		"	*5.25*		*69.3*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00266 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike Dup (BE00266-M Matrix Spike Dup	*Source sample: 20D0818-01 (SB04_0-2)								Prepared: 05/07/2020 Analyzed: 05/11/2020		
Perfluorobutanesulfonic acid (PFBS)	4.79	0.507	ug/kg dry	4.48	ND	107	25-150		1.14	35	
Perfluorohexanoic acid (PFHxA)	5.08	0.507	"	5.07	0.148	97.4	25-150		2.22	35	
Perfluoroheptanoic acid (PFHpA)	4.28	0.507	"	5.07	0.200	80.6	25-150		1.53	35	
Perfluorohexanesulfonic acid (PFHxS)	4.38	0.507	"	3.75	ND	117	25-150		0.243	35	
Perfluorooctanoic acid (PFOA)	5.10	0.507	"	5.07	0.311	94.6	25-150		2.18	35	
Perfluorooctanesulfonic acid (PFOS)	7.81	0.507	"	3.70	2.48	144	25-150		4.96	35	
Perfluorononanoic acid (PFNA)	4.65	0.507	"	4.86	0.145	92.7	25-150		4.03	35	
Perfluorodecanoic acid (PFDA)	4.71	0.507	"	5.07	0.153	90.0	25-150		0.350	35	
Perfluoroundecanoic acid (PFUnA)	5.26	0.507	"	5.07	0.183	100	25-150		4.68	35	
Perfluorododecanoic acid (PFDoA)	4.92	0.507	"	5.07	0.125	94.7	25-150		0.0959	35	
Perfluorotridecanoic acid (PFTrDA)	4.54	0.507	"	5.07	0.0869	87.9	25-150		0.600	35	
Perfluorotetradecanoic acid (PFTA)	4.91	0.507	"	5.07	0.0856	95.3	25-150		0.662	35	
N-MeFOSAA	4.81	0.507	"	5.07	ND	94.9	25-150		5.92	35	
N-EtFOSAA	4.90	0.507	"	5.07	0.114	94.6	25-150		8.40	35	
Perfluoropentanoic acid (PFPeA)	4.98	0.507	"	5.07	0.118	95.9	25-150		3.40	35	
Perfluoro-1-octanesulfonamide (FOSA)	5.09	0.507	"	5.07	ND	101	25-150		1.15	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.53	0.507	"	5.04	ND	110	25-150		5.58	35	
Perfluoro-1-decanesulfonic acid (PFDS)	3.77	0.507	"	4.89	0.0745	75.6	25-150		12.0	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	4.53	0.507	"	4.81	ND	94.2	25-150		4.10	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	5.98	0.507	"	4.86	0.0308	122	25-150		1.96	35	
Perfluoro-n-butanoic acid (PFBA)	6.66	0.507	"	5.07	1.28	106	25-150		4.46	35	
Surrogate: M3PFBS	*2.77*		"	*4.71*		*58.9*	*25-150*				
Surrogate: M5PFHxA	*2.85*		"	*5.07*		*56.2*	*25-150*				
Surrogate: M4PFHpA	*3.65*		"	*5.07*		*72.1*	*25-150*				
Surrogate: M3PFHxS	*2.94*		"	*4.79*		*61.4*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.37*		"	*5.07*		*66.5*	*25-150*				
Surrogate: M6PFDA	*3.38*		"	*5.07*		*66.8*	*25-150*				
Surrogate: M7PFUdA	*2.88*		"	*5.07*		*56.8*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*2.59*		"	*5.07*		*51.1*	*25-150*				
Surrogate: M2PFTeDA	*2.47*		"	*5.07*		*48.7*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*3.93*		"	*5.07*		*77.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.92*		"	*4.85*		*60.2*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*2.81*		"	*5.07*		*55.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.45*		"	*5.07*		*48.4*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.31*		"	*5.07*		*85.0*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.19*		"	*5.07*		*82.8*	*25-150*				
Surrogate: M2-6:2 FTS	*14.3*		"	*4.81*		*296*	*25-150*				
Surrogate: M2-8:2 FTS	*14.6*		"	*4.85*		*301*	*25-150*				
Surrogate: M9PFNA	*3.53*		"	*5.07*		*69.6*	*25-150*				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD01298 - % Solids Prep											
Duplicate (BD01298-DUP1) Duplicate	*Source sample: 20D0818-07 (SB06_12-14)							Prepared & Analyzed: 04/30/2020			
% Solids	85.9	0.100	%		86.1				0.295	20	
Batch BD01313 - % Solids Prep											
Duplicate (BD01313-DUP1) Duplicate	*Source sample: 20D0818-12 (SODUP01_042920)							Prepared & Analyzed: 04/30/2020			
% Solids	91.8	0.100	%		90.1				1.88	20	

Sample and Data Qualifiers Relating to This Work Order

PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No.: 20D0818

Page ____ of ____

YOUR Information	Report To:	Invoice To:
Company: Langan	Company:	Company: Same
Address: 360 west 31st Street New York, NY	Address:	Address: Same
Phone.: 2124795400	Phone.:	Phone.: Same
Contact: Kim Semon	Contact: Dina Palazzolo	Contact: Same
E-mail: KSemon@langan.com	E-mail: DPalazzolo@langan.com	E-mail: Same

YOUR Project Number: 170610601

YOUR Project Name: 475 Bay Street

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day): X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)
Deirdre Casey

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil; Other

Samples From: New York X; New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections): Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB04_0-2	S	4/29 1410	VOC, SVOC, PCB, Pest, Herb, Metals (hex/tri chromium & cyanide), PFAS, 1,4 dioxane	4oz(1) 8oz(1) 4oz, (1) 16oz
SB04_10-12	S	4/29 1415	↓	
SB04_14-16	S	4/29 1420	↓	
SB04_18-20	S	4/29 1425	HOLD	
SB06_0-2	S	4/29 0900	VOC SVOC PCB PEST herb inorganics (hex tri chrom cyanide) PFAS, 14dioxane	
SB06_5-7	S	4/29 0905	↓	
SB06_12-14	S	4/29 0910	↓	
SB06_18-20	S	4/29 0915	HOLD	
SB07_0-2	S	4/29 1145	VOC SVOC PCB Pest herb inorganics (hex tri chrom cyanide) PFAS, 14dioxane	
SB07_8-10	S	4/29 1150	↓	

Comments:
Part375/TCL VOCs & SVOC
TAL Metals (including hex/trichromd cyanide)

Preservation: (check all that apply)
HCl ___ MeOH X HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction: Field Filtered ____ Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Langan 1511	4/29/20 1511		4/28/20		4/28/20 1750
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				TC Mahl	4/29/20 1750

Temp. Received at Lab: 3.5 Degrees C

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 20D0818

YOUR Information	Report To:	Invoice To:
Company: Langan	Company:	Company: same
Address: 360 west 31st Street NewYorkNY 10001	Address:	Address: same
Phone.: 212 479 5400	Phone.:	Phone.: same
Contact: Kim Semon	Contact: Dina Palazzolo	Contact: same
E-mail: KSemon@langan.com	E-mail: DPalazzolo@langan.com	E-mail: same

YOUR Project Number: 170161601

YOUR Project Name: 475 Bay street

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)
Deirdre Casey

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil; Other

Samples From: New York X; New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections)

Summary Report	CT RCP	Standard Excel EDD
QA Report	CT RCP DQA/DUE	EQuIS (Standard)
NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQuIS
NY ASP B Package	NJDKQP	NJDEP SRP HazSite
		Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB07-18-20	S	4/29 1155	VOC, SVOC, PCB, Pest, Herb, Metals (hex chromium & cyanide), PFAS & 1,4 dioxane	9 vials, (1) 8oz, (1) 4oz, (1) 8oz
SODUP01-042920	S	4/29 —	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	

Comments:

Preservation: (check all that apply)
HCl ___ MeOH X HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction: Field Filtered ___ Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Deirdre Casey Langan	4/29 1511	E Shafer	4/29/20	E Shafer	4/29/20 1750
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				TC Mahler	4/29/20 1750 / 3.5 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Dina Palazzolo, Ms.

Report Date: 05/11/2020
Client Project ID: 170610601
York Project (SDG) No.: 20D0849

Report Date: 05/11/2020
Client Project ID: 170610601
York Project (SDG) No.: 20D0849

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Dina Palazzolo, Ms.

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 30, 2020 and listed below. The project was identified as your project: **170610601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
20D0849-01	SB16_0-2	Soil	04/30/2020	04/30/2020
20D0849-02	SB16_14-16	Soil	04/30/2020	04/30/2020
20D0849-03	SB16_18-20	Soil	04/30/2020	04/30/2020
20D0849-04	SB12_0-2	Soil	04/30/2020	04/30/2020
20D0849-05	SB12_8-10	Soil	04/30/2020	04/30/2020
20D0849-06	SB12_18-20	Soil	04/30/2020	04/30/2020
20D0849-07	SB11_0-2	Soil	04/30/2020	04/30/2020
20D0849-08	SB11_10-12	Soil	04/30/2020	04/30/2020
20D0849-09	SB11_18-20	Soil	04/30/2020	04/30/2020
20D0849-10	SOFB02_043020	Water	04/30/2020	04/30/2020
20D0849-11	MW06_043020	Water	04/30/2020	04/30/2020
20D0849-12	MW08_043020	Water	04/30/2020	04/30/2020
20D0849-13	MW05_043020	Water	04/30/2020	04/30/2020
20D0849-14	GWDUP01_043020	Water	04/30/2020	04/30/2020
20D0849-15	GWFB01_043020	Water	04/30/2020	04/30/2020

General Notes for York Project (SDG) No.: 20D0849

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 05/11/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: SB16_0-2 **York Sample ID:** 20D0849-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 9:15 am	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.71	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/05/2020 07:40	05/06/2020 17:20	KH

Surrogate Recoveries	Result		Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*38.0 %*	S-08	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.350	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0660	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0456	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0310	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.313**	J	ug/kg dry	0.0773	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**0.393**	J	ug/kg dry	0.0438	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0599	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
335-76-2	*** Perfluorodecanoic acid (PFDA)**	**0.0606**	J	ug/kg dry	0.0513	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.116	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0751	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0435	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0748	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.105	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.104	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0920	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
754-91-6	*** Perfluoro-1-octanesulfonamide (FOSA)**	**0.0522**	J	ug/kg dry	0.0468	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT

Sample Information

Client Sample ID: SB16_0-2 **York Sample ID:** 20D0849-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 9:15 am	04/30/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0494	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0513	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0661	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0256	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**0.185**	J	ug/kg dry	0.183	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*61.9 %*		*25-150*
Surrogate: M5PFHxA	*60.5 %*		*25-150*
Surrogate: M4PFHpA	*72.0 %*		*25-150*
Surrogate: M3PFHxS	*63.4 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*70.4 %*		*25-150*
Surrogate: M6PFDA	*70.2 %*		*25-150*
Surrogate: M7PFUdA	*57.7 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*55.2 %*		*25-150*
Surrogate: M2PFTeDA	*58.8 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*88.4 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*59.9 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*61.5 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*51.8 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*64.4 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*74.2 %*		*25-150*
Surrogate: M2-6:2 FTS	*117 %*		*25-150*
Surrogate: M2-8:2 FTS	*174 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*77.7 %*		*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**87.1**		%	0.100	1	SM 2540G Certifications: CTDOH	05/01/2020 08:37	05/01/2020 12:19	TJM

Sample Information

Client Sample ID: SB16_14-16 **York Sample ID:** 20D0849-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 9:20 am	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.90	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/05/2020 07:40	05/06/2020 12:46	KH

Surrogate Recoveries	Result		Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*50.0 %*	S-08	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.372	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0700	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0484	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0329	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.0820	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0465	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0635	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0544	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.124	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0797	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0462	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0794	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.111	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.111	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0977	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0496	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT

Sample Information

Client Sample ID: SB16_14-16 **York Sample ID:** 20D0849-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 9:20 am	04/30/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0524	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0544	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0701	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0272	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.194	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*70.6 %*	*25-150*
Surrogate: M5PFHxA	*71.5 %*	*25-150*
Surrogate: M4PFHpA	*81.1 %*	*25-150*
Surrogate: M3PFHxS	*73.8 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*79.7 %*	*25-150*
Surrogate: M6PFDA	*82.0 %*	*25-150*
Surrogate: M7PFUdA	*76.8 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*70.0 %*	*25-150*
Surrogate: M2PFTeDA	*66.3 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*105 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*76.6 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*74.0 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*59.8 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*76.4 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*67.4 %*	*25-150*
Surrogate: M2-6:2 FTS	*77.7 %*	*25-150*
Surrogate: M2-8:2 FTS	*86.9 %*	*25-150*
Surrogate: M9PFNA	*83.5 %*	*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**84.3**		%	0.100	1	SM 2540G Certifications: CTDOH	05/01/2020 08:37	05/01/2020 12:19	TJM

Sample Information

Client Sample ID: **SB16_18-20** **York Sample ID:** **20D0849-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 9:25 am	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.52	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/05/2020 07:40	05/06/2020 13:03	KH

Surrogate Recoveries	Result		Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*28.0 %*	S-08	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.446	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0841	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0580	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0395	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.165**	J	ug/kg dry	0.0985	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0559	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0763	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0653	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.148	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0957	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0555	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0953	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.133	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.133	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.117	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0596	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT

Sample Information

Client Sample ID: SB16_18-20 **York Sample ID:** 20D0849-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 9:25 am	04/30/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0629	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0653	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0842	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0327	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.233	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*74.8 %*	*25-150*
Surrogate: M5PFHxA	*75.3 %*	*25-150*
Surrogate: M4PFHpA	*83.1 %*	*25-150*
Surrogate: M3PFHxS	*75.5 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*72.9 %*	*25-150*
Surrogate: M6PFDA	*56.1 %*	*25-150*
Surrogate: M7PFUdA	*50.5 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*43.4 %*	*25-150*
Surrogate: M2PFTeDA	*37.1 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*110 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*56.1 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*76.6 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*45.9 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*48.3 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*47.2 %*	*25-150*
Surrogate: M2-6:2 FTS	*73.8 %*	*25-150*
Surrogate: M2-8:2 FTS	*53.3 %*	*25-150*
Surrogate: M9PFNA	*66.9 %*	*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**77.9**		%	0.100	1	SM 2540G Certifications: CTDOH	05/01/2020 08:37	05/01/2020 12:19	TJM

Sample Information

Client Sample ID: SB12_0-2 **York Sample ID:** 20D0849-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 11:45 am	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.62	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/05/2020 07:40	05/06/2020 13:20	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.355	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0668	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0461	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0314	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.166**	J	ug/kg dry	0.0783	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**0.292**	J	ug/kg dry	0.0444	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0606	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0519	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.118	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0760	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0441	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0757	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.106	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.106	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
2706-90-3	*** Perfluoropentanoic acid (PFPeA)**	**0.111**	J	ug/kg dry	0.0932	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0473	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT

Sample Information

Client Sample ID: SB12_0-2 **York Sample ID:** 20D0849-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 11:45 am	04/30/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0500	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0519	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0669	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0260	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.185	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*67.8 %*		*25-150*
Surrogate: M5PFHxA	*70.5 %*		*25-150*
Surrogate: M4PFHpA	*79.2 %*		*25-150*
Surrogate: M3PFHxS	*69.0 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*78.6 %*		*25-150*
Surrogate: M6PFDA	*74.8 %*		*25-150*
Surrogate: M7PFUdA	*63.8 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*64.8 %*		*25-150*
Surrogate: M2PFTeDA	*63.6 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*100 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*62.9 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*69.6 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*62.6 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*84.5 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*86.7 %*		*25-150*
Surrogate: M2-6:2 FTS	*154 %*	PFSu-H	*25-150*
Surrogate: M2-8:2 FTS	*186 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*83.2 %*		*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.8**		%	0.100	1	SM 2540G Certifications: CTDOH	05/01/2020 08:37	05/01/2020 12:19	TJM

Sample Information

Client Sample ID: SB12_8-10 **York Sample ID:** 20D0849-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 11:50 am	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.43	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/05/2020 07:40	05/06/2020 13:37	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*42.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.385	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0725	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0500	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0341	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.0849	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0482	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0658	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0563	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.128	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0825	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0478	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0822	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.115	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.115	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.101	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0514	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT

Sample Information

Client Sample ID: SB12_8-10 **York Sample ID:** 20D0849-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 11:50 am	04/30/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0542	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0563	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0726	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0282	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.201	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*68.3 %*	*25-150*
Surrogate: M5PFHxA	*70.7 %*	*25-150*
Surrogate: M4PFHpA	*79.9 %*	*25-150*
Surrogate: M3PFHxS	*71.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*79.4 %*	*25-150*
Surrogate: M6PFDA	*83.6 %*	*25-150*
Surrogate: M7PFUdA	*75.1 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*71.4 %*	*25-150*
Surrogate: M2PFTeDA	*71.1 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*100 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*76.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*71.1 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*66.1 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*78.3 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*84.1 %*	*25-150*
Surrogate: M2-6:2 FTS	*91.9 %*	*25-150*
Surrogate: M2-8:2 FTS	*128 %*	*25-150*
Surrogate: M9PFNA	*84.6 %*	*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**81.5**		%	0.100	1	SM 2540G Certifications: CTDOH	05/01/2020 08:37	05/01/2020 12:19	TJM

Sample Information

Client Sample ID: **SB12_18-20** **York Sample ID:** **20D0849-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 11:55 am	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.71	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/05/2020 07:40	05/06/2020 14:11	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*48.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.370	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0698	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0482	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0328	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.0894**	J	ug/kg dry	0.0817	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0464	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0633	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0542	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.123	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0794	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0460	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0791	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.111	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.110	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0973	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0494	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT

Sample Information

Client Sample ID: SB12_18-20 **York Sample ID:** 20D0849-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 11:55 am	04/30/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0522	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0542	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0699	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0271	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.193	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*66.5 %*	*25-150*
Surrogate: M5PFHxA	*68.3 %*	*25-150*
Surrogate: M4PFHpA	*77.3 %*	*25-150*
Surrogate: M3PFHxS	*70.2 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*73.2 %*	*25-150*
Surrogate: M6PFDA	*72.2 %*	*25-150*
Surrogate: M7PFUdA	*68.8 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*67.8 %*	*25-150*
Surrogate: M2PFTeDA	*71.1 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*99.3 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*72.0 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*69.1 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*57.6 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*67.2 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*72.5 %*	*25-150*
Surrogate: M2-6:2 FTS	*76.5 %*	*25-150*
Surrogate: M2-8:2 FTS	*72.1 %*	*25-150*
Surrogate: M9PFNA	*78.3 %*	*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**84.5**		%	0.100	1	SM 2540G Certifications: CTDOH	05/01/2020 08:37	05/01/2020 12:19	TJM

Sample Information

Client Sample ID: SB11_0-2 **York Sample ID:** 20D0849-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 2:40 pm	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.52	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/05/2020 07:40	05/06/2020 14:28	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.360	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0678	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0468	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0319	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.0795	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0451	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0615	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0527	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.120	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0772	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0448	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0769	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.107	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.107	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0946	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0481	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT

Sample Information

Client Sample ID: SB11_0-2 **York Sample ID:** 20D0849-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 2:40 pm	04/30/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0507	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0527	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0679	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0263	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.188	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*64.0 %*		*25-150*
Surrogate: M5PFHxA	*64.9 %*		*25-150*
Surrogate: M4PFHpA	*75.8 %*		*25-150*
Surrogate: M3PFHxS	*67.6 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*74.4 %*		*25-150*
Surrogate: M6PFDA	*72.5 %*		*25-150*
Surrogate: M7PFUdA	*67.5 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*61.7 %*		*25-150*
Surrogate: M2PFTeDA	*57.2 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*93.3 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*63.6 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*65.1 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*51.4 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*75.6 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*80.5 %*		*25-150*
Surrogate: M2-6:2 FTS	*128 %*		*25-150*
Surrogate: M2-8:2 FTS	*190 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*83.4 %*		*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.6**		%	0.100	1	SM 2540G Certifications: CTDOH	05/01/2020 08:37	05/01/2020 12:19	TJM

Sample Information

Client Sample ID: SB11_10-12 **York Sample ID:** 20D0849-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 2:45 pm	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.62	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/05/2020 07:40	05/06/2020 14:46	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*42.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.467	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0880	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0608	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0414	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.113**	J	ug/kg dry	0.103	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0585	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0798	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0684	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.155	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.100	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0581	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0997	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.139	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.139	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.123	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0624	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT

Sample Information

Client Sample ID: SB11_10-12 **York Sample ID:** 20D0849-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 2:45 pm	04/30/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0658	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0684	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0881	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0342	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.244	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*71.4 %*		*25-150*
Surrogate: M5PFHxA	*72.5 %*		*25-150*
Surrogate: M4PFHpA	*82.0 %*		*25-150*
Surrogate: M3PFHxS	*73.6 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*84.3 %*		*25-150*
Surrogate: M6PFDA	*90.1 %*		*25-150*
Surrogate: M7PFUdA	*66.7 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*67.7 %*		*25-150*
Surrogate: M2PFTeDA	*73.5 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*108 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*73.6 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*73.5 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*63.1 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*101 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*100 %*		*25-150*
Surrogate: M2-6:2 FTS	*228 %*	PFSu-H	*25-150*
Surrogate: M2-8:2 FTS	*365 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*90.6 %*		*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**71.1**		%	0.100	1	SM 2540G Certifications: CTDOH	05/01/2020 08:37	05/01/2020 12:19	TJM

Sample Information

Client Sample ID: SB11_18-20 **York Sample ID:** 20D0849-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 2:50 pm	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.80	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/05/2020 07:40	05/06/2020 15:03	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.383	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0720	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0497	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0339	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.0844	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0479	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0654	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0560	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.127	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0820	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0476	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0817	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.114	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.114	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.100	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0511	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT

Sample Information

Client Sample ID: SB11_18-20 **York Sample ID:** 20D0849-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 2:50 pm	04/30/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0539	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0560	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0722	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0280	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.200	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*61.9 %*	*25-150*
Surrogate: M5PFHxA	*69.3 %*	*25-150*
Surrogate: M4PFHpA	*78.0 %*	*25-150*
Surrogate: M3PFHxS	*63.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*72.7 %*	*25-150*
Surrogate: M6PFDA	*70.2 %*	*25-150*
Surrogate: M7PFUdA	*63.5 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*64.8 %*	*25-150*
Surrogate: M2PFTeDA	*65.1 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*102 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*62.8 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*69.0 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*58.7 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*67.5 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*67.4 %*	*25-150*
Surrogate: M2-6:2 FTS	*70.9 %*	*25-150*
Surrogate: M2-8:2 FTS	*77.3 %*	*25-150*
Surrogate: M9PFNA	*79.8 %*	*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**84.2**		%	0.100	1	SM 2540G Certifications: CTDOH	05/01/2020 08:37	05/01/2020 12:19	TJM

Sample Information

Client Sample ID: SOFB02_043020 **York Sample ID:** 20D0849-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 12:00 pm	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	05/04/2020 07:55	05/05/2020 16:32	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*68.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.294	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
307-24-4	* **Perfluorohexanoic acid (PFHxA)**	**0.936**	J	ng/L	0.471	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.635	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.281	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**0.669**	J	ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.292	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	0.524	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	0.657	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.777	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.37	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	0.529	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	0.557	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**1.94**	J	ng/L	0.452	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.296	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT

Sample Information

Client Sample ID: SOFB02_043020 **York Sample ID:** 20D0849-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 12:00 pm	04/30/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.415	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	0.492	5.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	0.399	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**2.78**	B	ng/L	1.63	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*57.0 %*	*25-150*
Surrogate: M5PFHxA	*58.4 %*	*25-150*
Surrogate: M4PFHpA	*67.7 %*	*25-150*
Surrogate: M3PFHxS	*59.8 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*60.6 %*	*25-150*
Surrogate: M6PFDA	*59.7 %*	*25-150*
Surrogate: M7PFUdA	*53.3 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*46.2 %*	*25-150*
Surrogate: M2PFTeDA	*28.8 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*78.1 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*58.9 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*57.1 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*52.3 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*52.2 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*48.8 %*	*25-150*
Surrogate: M2-6:2 FTS	*64.8 %*	*25-150*
Surrogate: M2-8:2 FTS	*68.5 %*	*25-150*
Surrogate: M9PFNA	*59.3 %*	*25-150*

Sample Information

Client Sample ID: MW06_043020 **York Sample ID:** 20D0849-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 2:14 pm	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	05/04/2020 07:55	05/05/2020 16:50	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*72.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* **Perfluorobutanesulfonic acid (PFBS)**	**9.45**		ng/L	0.294	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
307-24-4	* **Perfluorohexanoic acid (PFHxA)**	**22.3**		ng/L	0.471	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
375-85-9	* **Perfluoroheptanoic acid (PFHpA)**	**20.5**		ng/L	0.635	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
355-46-4	* **Perfluorohexanesulfonic acid (PFHxS)**	**2.69**		ng/L	0.281	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**178**		ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
1763-23-1	* **Perfluorooctanesulfonic acid (PFOS)**	**130**		ng/L	0.292	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
375-95-1	* **Perfluorononanoic acid (PFNA)**	**9.87**		ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
335-76-2	* **Perfluorodecanoic acid (PFDA)**	**2.52**		ng/L	0.524	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	0.657	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.777	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.37	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
376-06-7	* **Perfluorotetradecanoic acid (PFTA)**	**0.537**	J	ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	0.529	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
2991-50-6	* **N-EtFOSAA**	**0.726**	J	ng/L	0.557	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**23.2**		ng/L	0.452	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
754-91-6	* **Perfluoro-1-octanesulfonamide (FOSA)**	**0.700**	J	ng/L	0.296	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT

Sample Information

Client Sample ID: MW06_043020 **York Sample ID:** 20D0849-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 2:14 pm	04/30/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	*** Perfluoro-1-heptanesulfonic acid (PFHpS)**	**0.894**	J	ng/L	0.415	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	0.492	5.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	0.399	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**18.2**	B	ng/L	1.63	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*50.4 %*		*25-150*
Surrogate: M5PFHxA	*48.9 %*		*25-150*
Surrogate: M4PFHpA	*58.2 %*		*25-150*
Surrogate: M3PFHxS	*57.7 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*58.9 %*		*25-150*
Surrogate: M6PFDA	*64.4 %*		*25-150*
Surrogate: M7PFUdA	*49.7 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*35.3 %*		*25-150*
Surrogate: M2PFTeDA	*8.07 %*	PFSu-L	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*49.1 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*56.3 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*45.2 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*24.7 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*56.8 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*55.5 %*		*25-150*
Surrogate: M2-6:2 FTS	*208 %*	PFSu-H	*25-150*
Surrogate: M2-8:2 FTS	*140 %*		*25-150*
Surrogate: M9PFNA	*67.6 %*		*25-150*

Sample Information

Client Sample ID: MW08_043020 **York Sample ID:** 20D0849-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 10:55 am	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	05/04/2020 07:55	05/05/2020 17:08	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*68.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* **Perfluorobutanesulfonic acid (PFBS)**	**0.933**	J	ng/L	0.294	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
307-24-4	* **Perfluorohexanoic acid (PFHxA)**	**3.22**		ng/L	0.471	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
375-85-9	* **Perfluoroheptanoic acid (PFHpA)**	**2.59**		ng/L	0.635	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
355-46-4	* **Perfluorohexanesulfonic acid (PFHxS)**	**0.618**	J	ng/L	0.281	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**27.7**		ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
1763-23-1	* **Perfluorooctanesulfonic acid (PFOS)**	**10.9**		ng/L	0.292	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
375-95-1	* **Perfluorononanoic acid (PFNA)**	**0.984**	J	ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	0.524	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	0.657	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.777	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.37	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
376-06-7	* **Perfluorotetradecanoic acid (PFTA)**	**0.671**	J	ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
2355-31-9	* **N-MeFOSAA**	**0.712**	J	ng/L	0.529	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	0.557	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**3.08**		ng/L	0.452	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
754-91-6	* **Perfluoro-1-octanesulfonamide (FOSA)**	**0.816**	J	ng/L	0.296	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT

Sample Information

Client Sample ID: MW08_043020 **York Sample ID:** 20D0849-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 10:55 am	04/30/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.415	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	0.492	5.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	0.399	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**5.47**	B	ng/L	1.63	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*50.5 %*		*25-150*
Surrogate: M5PFHxA	*49.1 %*		*25-150*
Surrogate: M4PFHpA	*62.0 %*		*25-150*
Surrogate: M3PFHxS	*54.9 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*53.5 %*		*25-150*
Surrogate: M6PFDA	*51.5 %*		*25-150*
Surrogate: M7PFUdA	*36.9 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*26.1 %*		*25-150*
Surrogate: M2PFTeDA	*5.21 %*	PFSu-L	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*48.8 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*49.3 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*46.8 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*31.6 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*43.0 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*38.9 %*		*25-150*
Surrogate: M2-6:2 FTS	*71.5 %*		*25-150*
Surrogate: M2-8:2 FTS	*63.9 %*		*25-150*
Surrogate: M9PFNA	*56.8 %*		*25-150*

Sample Information

Client Sample ID: MW05_043020 **York Sample ID:** 20D0849-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 12:00 am	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	05/04/2020 07:55	05/05/2020 17:26	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*68.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* **Perfluorobutanesulfonic acid (PFBS)**	**14.9**		ng/L	0.294	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
307-24-4	* **Perfluorohexanoic acid (PFHxA)**	**17.7**		ng/L	0.471	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
375-85-9	* **Perfluoroheptanoic acid (PFHpA)**	**17.2**		ng/L	0.635	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
355-46-4	* **Perfluorohexanesulfonic acid (PFHxS)**	**3.87**		ng/L	0.281	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**143**		ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
1763-23-1	* **Perfluorooctanesulfonic acid (PFOS)**	**84.3**		ng/L	0.292	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
375-95-1	* **Perfluorononanoic acid (PFNA)**	**8.35**		ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
335-76-2	* **Perfluorodecanoic acid (PFDA)**	**1.28**	J	ng/L	0.524	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	0.657	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.777	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.37	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	0.529	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	0.557	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**16.9**		ng/L	0.452	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.296	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT

Sample Information

Client Sample ID: MW05_043020 **York Sample ID:** 20D0849-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 12:00 am	04/30/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	*** Perfluoro-1-heptanesulfonic acid (PFHpS)**	**2.42**		ng/L	0.415	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	0.492	5.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	0.399	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**17.4**	B	ng/L	1.63	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*48.0 %*		*25-150*
Surrogate: M5PFHxA	*46.8 %*		*25-150*
Surrogate: M4PFHpA	*55.7 %*		*25-150*
Surrogate: M3PFHxS	*54.8 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*58.7 %*		*25-150*
Surrogate: M6PFDA	*60.4 %*		*25-150*
Surrogate: M7PFUdA	*50.8 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*36.6 %*		*25-150*
Surrogate: M2PFTeDA	*11.0 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*40.0 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*54.9 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*39.0 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*24.8 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*48.9 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*50.9 %*		*25-150*
Surrogate: M2-6:2 FTS	*192 %*	PFSu-H	*25-150*
Surrogate: M2-8:2 FTS	*98.9 %*		*25-150*
Surrogate: M9PFNA	*64.2 %*		*25-150*

Sample Information

Client Sample ID: GWDUP01_043020 **York Sample ID:** 20D0849-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 12:00 am	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	05/04/2020 07:55	05/05/2020 17:44	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*72.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* **Perfluorobutanesulfonic acid (PFBS)**	**0.894**	J	ng/L	0.294	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
307-24-4	* **Perfluorohexanoic acid (PFHxA)**	**3.18**		ng/L	0.471	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
375-85-9	* **Perfluoroheptanoic acid (PFHpA)**	**2.32**		ng/L	0.635	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
355-46-4	* **Perfluorohexanesulfonic acid (PFHxS)**	**0.681**	J	ng/L	0.281	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**27.5**		ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
1763-23-1	* **Perfluorooctanesulfonic acid (PFOS)**	**12.3**		ng/L	0.292	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
375-95-1	* **Perfluorononanoic acid (PFNA)**	**0.741**	J	ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	0.524	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	0.657	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.777	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.37	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	0.529	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	0.557	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**2.79**		ng/L	0.452	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.296	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT

Sample Information

Client Sample ID: GWDUP01_043020 **York Sample ID:** 20D0849-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 12:00 am	04/30/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.415	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	0.492	5.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	0.399	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**4.94**	B	ng/L	1.63	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*52.9 %*	*25-150*
Surrogate: M5PFHxA	*52.9 %*	*25-150*
Surrogate: M4PFHpA	*65.2 %*	*25-150*
Surrogate: M3PFHxS	*56.6 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*59.9 %*	*25-150*
Surrogate: M6PFDA	*61.6 %*	*25-150*
Surrogate: M7PFUdA	*49.9 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*44.0 %*	*25-150*
Surrogate: M2PFTeDA	*25.4 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*62.9 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*56.6 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*51.0 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*33.0 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*49.4 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*47.5 %*	*25-150*
Surrogate: M2-6:2 FTS	*88.5 %*	*25-150*
Surrogate: M2-8:2 FTS	*68.5 %*	*25-150*
Surrogate: M9PFNA	*60.4 %*	*25-150*

Sample Information

Client Sample ID: GWFB01_043020 **York Sample ID:** 20D0849-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 2:00 pm	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	05/04/2020 07:55	05/05/2020 18:01	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*64.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.294	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.471	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.635	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.281	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**0.551**	J	ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.292	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	0.524	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	0.657	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.777	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.37	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	0.529	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	0.557	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**0.719**	J	ng/L	0.452	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.296	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT

Sample Information

Client Sample ID: GWFB01_043020 **York Sample ID:** 20D0849-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 2:00 pm	04/30/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.415	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	0.492	5.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	0.399	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**2.24**	B	ng/L	1.63	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*53.8 %*	*25-150*
Surrogate: M5PFHxA	*54.3 %*	*25-150*
Surrogate: M4PFHpA	*64.1 %*	*25-150*
Surrogate: M3PFHxS	*57.2 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*56.7 %*	*25-150*
Surrogate: M6PFDA	*58.7 %*	*25-150*
Surrogate: M7PFUdA	*53.0 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*50.2 %*	*25-150*
Surrogate: M2PFTeDA	*32.2 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*75.5 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*57.2 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*53.7 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*48.4 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*51.0 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*49.0 %*	*25-150*
Surrogate: M2-6:2 FTS	*57.6 %*	*25-150*
Surrogate: M2-8:2 FTS	*65.3 %*	*25-150*
Surrogate: M9PFNA	*58.3 %*	*25-150*

Analytical Batch Summary

Batch ID: BE00012 **Preparation Method:** % Solids Prep **Prepared By:** TJM

YORK Sample ID	Client Sample ID	Preparation Date
20D0849-01	SB16_0-2	05/01/20
20D0849-02	SB16_14-16	05/01/20
20D0849-03	SB16_18-20	05/01/20
20D0849-04	SB12_0-2	05/01/20
20D0849-05	SB12_8-10	05/01/20
20D0849-06	SB12_18-20	05/01/20
20D0849-07	SB11_0-2	05/01/20
20D0849-08	SB11_10-12	05/01/20
20D0849-09	SB11_18-20	05/01/20
BE00012-DUP1	Duplicate	05/01/20

Batch ID: BE00069 **Preparation Method:** EPA 3535A **Prepared By:** CTD

YORK Sample ID	Client Sample ID	Preparation Date
20D0849-10	SOFB02_043020	05/04/20
20D0849-11	MW06_043020	05/04/20
20D0849-12	MW08_043020	05/04/20
20D0849-13	MW05_043020	05/04/20
20D0849-14	GWDUP01_043020	05/04/20
20D0849-15	GWFB01_043020	05/04/20
BE00069-BLK1	Blank	05/04/20
BE00069-BS1	LCS	05/04/20

Batch ID: BE00118 **Preparation Method:** EPA 3550C **Prepared By:** LM

YORK Sample ID	Client Sample ID	Preparation Date
20D0849-01	SB16_0-2	05/05/20
20D0849-02	SB16_14-16	05/05/20
20D0849-03	SB16_18-20	05/05/20
20D0849-04	SB12_0-2	05/05/20
20D0849-05	SB12_8-10	05/05/20
20D0849-06	SB12_18-20	05/05/20
20D0849-07	SB11_0-2	05/05/20
20D0849-08	SB11_10-12	05/05/20
20D0849-09	SB11_18-20	05/05/20
BE00118-BLK1	Blank	05/05/20
BE00118-BS1	LCS	05/05/20
BE00118-MS1	Matrix Spike	05/05/20

Batch ID: BE00136 **Preparation Method:** SPE PFAS Extraction-Soil-EPA 537m **Prepared By:** KT

YORK Sample ID	Client Sample ID	Preparation Date
20D0849-01	SB16_0-2	05/05/20
20D0849-02	SB16_14-16	05/05/20

20D0849-03	SB16_18-20	05/05/20
20D0849-04	SB12_0-2	05/05/20
20D0849-05	SB12_8-10	05/05/20
20D0849-06	SB12_18-20	05/05/20
20D0849-07	SB11_0-2	05/05/20
20D0849-08	SB11_10-12	05/05/20
20D0849-09	SB11_18-20	05/05/20
BE00136-BLK1	Blank	05/05/20
BE00136-BS1	LCS	05/05/20
BE00136-MS1	Matrix Spike	05/05/20
BE00136-MSD1	Matrix Spike Dup	05/05/20

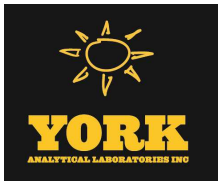
Batch ID: BE00144 **Preparation Method:** SPE Ext-PFAS-EPA 537.1M **Prepared By:** KHA

YORK Sample ID	Client Sample ID	Preparation Date
20D0849-10	SOFB02_043020	05/05/20
20D0849-11	MW06_043020	05/05/20
20D0849-12	MW08_043020	05/05/20
20D0849-13	MW05_043020	05/05/20
20D0849-14	GWDUP01_043020	05/05/20
20D0849-15	GWFB01_043020	05/05/20
BE00144-BLK1	Blank	05/05/20
BE00144-BS1	LCS	05/05/20
BE00144-BS2	LCS	05/05/20
BE00144-BS3	LCS	05/05/20
BE00144-BS4	LCS	05/05/20
BE00144-DUP1	Duplicate	05/05/20
BE00144-MS1	Matrix Spike	05/05/20

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc.

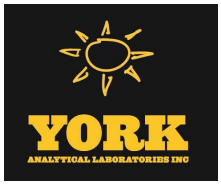
Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00069 - EPA 3535A												
Blank (BE00069-BLK1)	Blank									Prepared: 05/04/2020 Analyzed: 05/05/2020		
1,4-Dioxane		ND	0.200	ug/L								
Surrogate: 1,4-Dioxane-d8		*3.40*		*"*	*5.00*		*68.0*	*36.6-118*				
LCS (BE00069-BS1)	LCS									Prepared: 05/04/2020 Analyzed: 05/05/2020		
1,4-Dioxane		5.58	0.200	ug/L	5.00		112	50-130				
Surrogate: 1,4-Dioxane-d8		*3.40*		*"*	*5.00*		*68.0*	*36.6-118*				
Batch BE00118 - EPA 3550C												
Blank (BE00118-BLK1)	Blank									Prepared: 05/05/2020 Analyzed: 05/06/2020		
1,4-Dioxane		ND	9.90	ug/kg								
Surrogate: 1,4-Dioxane-d8		*356*		*"*	*495*		*72.0*	*39-83.1*				
LCS (BE00118-BS1)	LCS									Prepared: 05/05/2020 Analyzed: 05/06/2020		
1,4-Dioxane		455	9.90	ug/kg	495		92.0	40-130				
Surrogate: 1,4-Dioxane-d8		*624*		*"*	*495*		*126*	*39-83.1*				
Matrix Spike (BE00118-MS1)	Matrix Spike	*Source sample: 20D0849-04 (SB12_0-2)								Prepared: 05/05/2020 Analyzed: 05/06/2020		
1,4-Dioxane		495	9.90	ug/kg	495	ND	100	40-130				
Surrogate: 1,4-Dioxane-d8		*287*		*"*	*495*		*58.0*	*40-130*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

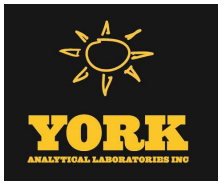
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00136 - SPE PFAS Extraction-Soil-EPA 537m											
Blank (BE00136-BLK1) Blank									Prepared: 05/05/2020 Analyzed: 05/09/2020		
Perfluorobutanesulfonic acid (PFBS)	ND	0.490	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.490	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.490	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.490	"								
Perfluorooctanoic acid (PFOA)	ND	0.490	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.490	"								
Perfluorononanoic acid (PFNA)	ND	0.490	"								
Perfluorodecanoic acid (PFDA)	ND	0.490	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.490	"								
Perfluorododecanoic acid (PFDoA)	ND	0.490	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.490	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.490	"								
N-MeFOSAA	ND	0.490	"								
N-EtFOSAA	ND	0.490	"								
Perfluoropentanoic acid (PFPeA)	ND	0.490	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.490	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.490	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.490	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	0.490	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	0.490	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.490	"								
Surrogate: M3PFBS	*3.67*		"	*4.55*		*80.8*	*25-150*				
Surrogate: M5PFHxA	*3.94*		"	*4.90*		*80.6*	*25-150*				
Surrogate: M4PFHpA	*4.15*		"	*4.90*		*84.8*	*25-150*				
Surrogate: M3PFHxS	*3.81*		"	*4.63*		*82.2*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*4.22*		"	*4.90*		*86.2*	*25-150*				
Surrogate: M6PFDA	*4.06*		"	*4.90*		*83.0*	*25-150*				
Surrogate: M7PFUdA	*3.92*		"	*4.90*		*80.0*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*4.28*		"	*4.90*		*87.5*	*25-150*				
Surrogate: M2PFTeDA	*3.99*		"	*4.90*		*81.5*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.63*		"	*4.90*		*115*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*4.01*		"	*4.69*		*85.7*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.93*		"	*4.90*		*80.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.63*		"	*4.90*		*74.1*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.82*		"	*4.90*		*77.9*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.00*		"	*4.90*		*81.7*	*25-150*				
Surrogate: M2-6:2 FTS	*4.34*		"	*4.65*		*93.4*	*25-150*				
Surrogate: M2-8:2 FTS	*4.17*		"	*4.69*		*89.0*	*25-150*				
Surrogate: M9PFNA	*4.63*		"	*4.90*		*94.5*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

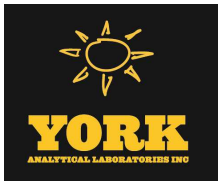
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00136 - SPE PFAS Extraction-Soil-EPA 537m											
LCS (BE00136-BS1) LCS									Prepared: 05/05/2020 Analyzed: 05/09/2020		
Perfluorobutanesulfonic acid (PFBS)	4.24	0.481	ug/kg wet	4.26		99.6	50-130				
Perfluorohexanoic acid (PFHxA)	4.52	0.481	"	4.81		93.9	50-130				
Perfluoroheptanoic acid (PFHpA)	4.23	0.481	"	4.81		87.9	50-130				
Perfluorohexanesulfonic acid (PFHxS)	3.40	0.481	"	3.56		95.6	50-130				
Perfluorooctanoic acid (PFOA)	4.25	0.481	"	4.81		88.3	50-130				
Perfluorooctanesulfonic acid (PFOS)	3.28	0.481	"	3.51		93.5	50-130				
Perfluorononanoic acid (PFNA)	4.04	0.481	"	4.62		87.5	50-130				
Perfluorodecanoic acid (PFDA)	4.48	0.481	"	4.81		93.1	50-130				
Perfluoroundecanoic acid (PFUnA)	4.40	0.481	"	4.81		91.5	50-130				
Perfluorododecanoic acid (PFDoA)	4.48	0.481	"	4.81		93.2	50-130				
Perfluorotridecanoic acid (PFTrDA)	4.38	0.481	"	4.81		91.0	50-130				
Perfluorotetradecanoic acid (PFTA)	4.51	0.481	"	4.81		93.9	50-130				
N-MeFOSAA	4.62	0.481	"	4.81		96.0	50-130				
N-EtFOSAA	4.45	0.481	"	4.81		92.5	50-130				
Perfluoropentanoic acid (PFPeA)	4.44	0.481	"	4.81		92.4	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	4.93	0.481	"	4.81		103	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.84	0.481	"	4.78		101	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	4.02	0.481	"	4.64		86.5	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	3.99	0.481	"	4.57		87.3	50-130				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	5.48	0.481	"	4.62		119	50-130				
Perfluoro-n-butanoic acid (PFBA)	4.57	0.481	"	4.81		95.1	50-130				
Surrogate: M3PFBS	*3.24*		"	*4.47*		*72.6*	*25-150*				
Surrogate: M5PFHxA	*3.47*		"	*4.81*		*72.2*	*25-150*				
Surrogate: M4PFHpA	*3.71*		"	*4.81*		*77.2*	*25-150*				
Surrogate: M3PFHxS	*3.38*		"	*4.55*		*74.2*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.74*		"	*4.81*		*77.7*	*25-150*				
Surrogate: M6PFDA	*3.61*		"	*4.81*		*75.1*	*25-150*				
Surrogate: M7PFUdA	*3.44*		"	*4.81*		*71.6*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*3.47*		"	*4.81*		*72.1*	*25-150*				
Surrogate: M2PFTeDA	*3.41*		"	*4.81*		*70.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.04*		"	*4.81*		*105*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.44*		"	*4.60*		*74.8*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.54*		"	*4.81*		*73.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.16*		"	*4.81*		*65.6*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.51*		"	*4.81*		*73.0*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.22*		"	*4.81*		*66.9*	*25-150*				
Surrogate: M2-6:2 FTS	*3.82*		"	*4.56*		*83.8*	*25-150*				
Surrogate: M2-8:2 FTS	*3.59*		"	*4.61*		*77.9*	*25-150*				
Surrogate: M9PFNA	*4.06*		"	*4.81*		*84.3*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

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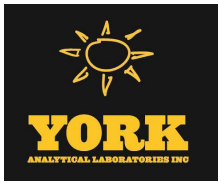
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00136 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike (BE00136-MS1) Matrix Spike	*Source sample: 20D0849-04 (SB12_0-2)								Prepared: 05/05/2020 Analyzed: 05/09/2020		
Perfluorobutanesulfonic acid (PFBS)	4.40	0.522	ug/kg dry	4.62	ND	95.1	25-150				
Perfluorohexanoic acid (PFHxA)	4.58	0.522	"	5.22	ND	87.7	25-150				
Perfluoroheptanoic acid (PFHpA)	4.17	0.522	"	5.22	ND	79.7	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.30	0.522	"	3.87	ND	111	25-150				
Perfluorooctanoic acid (PFOA)	4.73	0.522	"	5.22	0.166	87.3	25-150				
Perfluorooctanesulfonic acid (PFOS)	5.03	0.522	"	3.81	0.292	124	25-150				
Perfluorononanoic acid (PFNA)	4.22	0.522	"	5.01	ND	84.1	25-150				
Perfluorodecanoic acid (PFDA)	4.40	0.522	"	5.22	ND	84.2	25-150				
Perfluoroundecanoic acid (PFUnA)	4.56	0.522	"	5.22	ND	87.3	25-150				
Perfluorododecanoic acid (PFDoA)	4.30	0.522	"	5.22	ND	82.3	25-150				
Perfluorotridecanoic acid (PFTrDA)	4.16	0.522	"	5.22	ND	79.7	25-150				
Perfluorotetradecanoic acid (PFTA)	4.50	0.522	"	5.22	ND	86.2	25-150				
N-MeFOSAA	4.11	0.522	"	5.22	ND	78.7	25-150				
N-EtFOSAA	4.77	0.522	"	5.22	ND	91.3	25-150				
Perfluoropentanoic acid (PFPeA)	4.56	0.522	"	5.22	0.111	85.2	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.59	0.522	"	5.22	ND	87.8	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.98	0.522	"	5.20	ND	95.9	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.55	0.522	"	5.04	ND	70.5	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	4.24	0.522	"	4.96	ND	85.4	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	5.50	0.522	"	5.01	ND	110	25-150				
Perfluoro-n-butanoic acid (PFBA)	4.97	0.522	"	5.22	ND	95.1	25-150				
Surrogate: M3PFBS	*3.07*		"	*4.85*		*63.3*	*25-150*				
Surrogate: M5PFHxA	*3.33*		"	*5.22*		*63.8*	*25-150*				
Surrogate: M4PFHpA	*3.90*		"	*5.22*		*74.7*	*25-150*				
Surrogate: M3PFHxS	*3.19*		"	*4.94*		*64.5*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.88*		"	*5.22*		*74.2*	*25-150*				
Surrogate: M6PFDA	*3.95*		"	*5.22*		*75.7*	*25-150*				
Surrogate: M7PFUdA	*3.65*		"	*5.22*		*69.8*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*3.79*		"	*5.22*		*72.6*	*25-150*				
Surrogate: M2PFTeDA	*3.72*		"	*5.22*		*71.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.68*		"	*5.22*		*89.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.22*		"	*5.00*		*64.5*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.32*		"	*5.22*		*63.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.30*		"	*5.22*		*63.1*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.45*		"	*5.22*		*85.1*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.53*		"	*5.22*		*86.8*	*25-150*				
Surrogate: M2-6:2 FTS	*7.15*		"	*4.96*		*144*	*25-150*				
Surrogate: M2-8:2 FTS	*8.75*		"	*5.00*		*175*	*25-150*				
Surrogate: M9PFNA	*4.26*		"	*5.22*		*81.6*	*25-150*				



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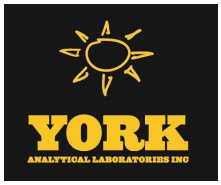
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00136 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike Dup (BE00136-M Matrix Spike Dup	*Source sample: 20D0849-04 (SB12_0-2)								Prepared: 05/05/2020 Analyzed: 05/09/2020		
Perfluorobutanesulfonic acid (PFBS)	4.26	0.524	ug/kg dry	4.63	ND	91.9	25-150		3.18	35	
Perfluorohexanoic acid (PFHxA)	4.15	0.524	"	5.24	ND	79.2	25-150		9.97	35	
Perfluoroheptanoic acid (PFHpA)	4.21	0.524	"	5.24	ND	80.3	25-150		0.985	35	
Perfluorohexanesulfonic acid (PFHxS)	3.98	0.524	"	3.87	ND	103	25-150		7.65	35	
Perfluorooctanoic acid (PFOA)	4.68	0.524	"	5.24	0.166	86.3	25-150		0.886	35	
Perfluorooctanesulfonic acid (PFOS)	4.87	0.524	"	3.82	0.292	120	25-150		3.08	35	
Perfluorononanoic acid (PFNA)	4.24	0.524	"	5.03	ND	84.3	25-150		0.507	35	
Perfluorodecanoic acid (PFDA)	4.31	0.524	"	5.24	ND	82.3	25-150		2.06	35	
Perfluoroundecanoic acid (PFUnA)	4.53	0.524	"	5.24	ND	86.6	25-150		0.604	35	
Perfluorododecanoic acid (PFDoA)	3.57	0.524	"	5.24	ND	68.2	25-150		18.5	35	
Perfluorotridecanoic acid (PFTrDA)	4.15	0.524	"	5.24	ND	79.3	25-150		0.267	35	
Perfluorotetradecanoic acid (PFTA)	4.48	0.524	"	5.24	ND	85.5	25-150		0.479	35	
N-MeFOSAA	4.61	0.524	"	5.24	ND	88.0	25-150		11.4	35	
N-EtFOSAA	4.31	0.524	"	5.24	ND	82.3	25-150		10.2	35	
Perfluoropentanoic acid (PFPeA)	4.59	0.524	"	5.24	0.111	85.5	25-150		0.557	35	
Perfluoro-1-octanesulfonamide (FOSA)	4.75	0.524	"	5.24	ND	90.8	25-150		3.57	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.07	0.524	"	5.21	ND	97.4	25-150		1.81	35	
Perfluoro-1-decanesulfonic acid (PFDS)	3.65	0.524	"	5.05	ND	72.2	25-150		2.60	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	4.24	0.524	"	4.97	ND	85.2	25-150		0.0152	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	5.21	0.524	"	5.03	ND	104	25-150		5.39	35	
Perfluoro-n-butanoic acid (PFBA)	4.83	0.524	"	5.24	ND	92.2	25-150		2.75	35	
Surrogate: M3PFBS	*3.32*		*"*	*4.86*		*68.3*	*25-150*				
Surrogate: M5PFHxA	*3.56*		*"*	*5.24*		*68.0*	*25-150*				
Surrogate: M4PFHpA	*4.21*		*"*	*5.24*		*80.4*	*25-150*				
Surrogate: M3PFHxS	*3.56*		*"*	*4.95*		*71.9*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*4.18*		*"*	*5.24*		*79.9*	*25-150*				
Surrogate: M6PFDA	*4.09*		*"*	*5.24*		*78.0*	*25-150*				
Surrogate: M7PFUdA	*3.44*		*"*	*5.24*		*65.7*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*3.57*		*"*	*5.24*		*68.1*	*25-150*				
Surrogate: M2PFTeDA	*3.44*		*"*	*5.24*		*65.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.24*		*"*	*5.24*		*100*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.24*		*"*	*5.01*		*64.6*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.55*		*"*	*5.24*		*67.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.42*		*"*	*5.24*		*65.3*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.37*		*"*	*5.24*		*83.5*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.98*		*"*	*5.24*		*95.0*	*25-150*				
Surrogate: M2-6:2 FTS	*7.87*		*"*	*4.97*		*158*	*25-150*				
Surrogate: M2-8:2 FTS	*10.0*		*"*	*5.02*		*200*	*25-150*				
Surrogate: M9PFNA	*4.41*		*"*	*5.24*		*84.1*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

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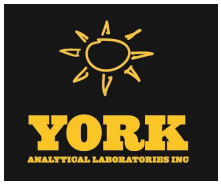
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00144 - SPE Ext-PFAS-EPA 537.1M											
Blank (BE00144-BLK1) Blank									Prepared: 05/05/2020 Analyzed: 05/08/2020		
Perfluorobutanesulfonic acid (PFBS)	ND	2.00	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	0.883	2.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	0.576	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	5.00	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	2.00	"								
Perfluoro-n-butanoic acid (PFBA)	2.72	2.00	"								
Surrogate: M3PFBS	*41.1*		"	*74.3*		*55.3*	*25-150*				
Surrogate: M5PFHxA	*46.2*		"	*80.0*		*57.7*	*25-150*				
Surrogate: M4PFHpA	*49.6*		"	*80.0*		*62.0*	*25-150*				
Surrogate: M3PFHxS	*44.2*		"	*75.7*		*58.4*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*48.2*		"	*80.0*		*60.3*	*25-150*				
Surrogate: M6PFDA	*53.3*		"	*80.0*		*66.7*	*25-150*				
Surrogate: M7PFUdA	*48.1*		"	*80.0*		*60.1*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*46.7*		"	*80.0*		*58.4*	*25-150*				
Surrogate: M2PFTeDA	*38.7*		"	*80.0*		*48.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*51.5*		"	*80.0*		*64.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*45.0*		"	*76.6*		*58.8*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*45.5*		"	*80.0*		*56.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*43.5*		"	*80.0*		*54.4*	*10-150*				
Surrogate: d3-N-MeFOSAA	*49.9*		"	*80.0*		*62.4*	*25-150*				
Surrogate: d5-N-EtFOSAA	*48.3*		"	*80.0*		*60.3*	*25-150*				
Surrogate: M2-6:2 FTS	*48.5*		"	*75.9*		*63.9*	*25-150*				
Surrogate: M2-8:2 FTS	*56.1*		"	*76.6*		*73.2*	*25-150*				
Surrogate: M9PFNA	*50.5*		"	*80.0*		*63.1*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

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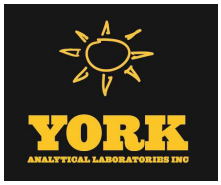
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00144 - SPE Ext-PFAS-EPA 537.1M											
LCS (BE00144-BS1) LCS									Prepared: 05/05/2020 Analyzed: 05/08/2020		
Perfluorobutanesulfonic acid (PFBS)	73.0	2.00	ng/L	70.8		103	50-130				
Perfluorohexanoic acid (PFHxA)	79.0	2.00	"	80.0		98.8	50-130				
Perfluoroheptanoic acid (PFHpA)	72.7	2.00	"	80.0		90.9	50-130				
Perfluorohexanesulfonic acid (PFHxS)	57.8	2.00	"	59.2		97.7	50-130				
Perfluorooctanoic acid (PFOA)	80.2	2.00	"	80.0		100	50-130				
Perfluorooctanesulfonic acid (PFOS)	58.8	2.00	"	58.4		101	50-130				
Perfluorononanoic acid (PFNA)	71.2	2.00	"	76.8		92.7	50-130				
Perfluorodecanoic acid (PFDA)	74.1	2.00	"	80.0		92.6	50-130				
Perfluoroundecanoic acid (PFUnA)	80.6	2.00	"	80.0		101	50-130				
Perfluorododecanoic acid (PFDoA)	77.0	2.00	"	80.0		96.3	50-130				
Perfluorotridecanoic acid (PFTrDA)	64.2	2.00	"	80.0		80.3	50-130				
Perfluorotetradecanoic acid (PFTA)	74.6	2.00	"	80.0		93.3	50-130				
N-MeFOSAA	71.7	2.00	"	80.0		89.7	50-130				
N-EtFOSAA	79.6	2.00	"	80.0		99.5	50-130				
Perfluoropentanoic acid (PFPeA)	77.2	2.00	"	80.0		96.6	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	77.8	2.00	"	80.0		97.2	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	87.9	2.00	"	79.6		110	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	64.9	2.00	"	77.2		84.1	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	65.6	5.00	"	76.0		86.3	50-130				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	84.9	2.00	"	76.8		111	50-130				
Perfluoro-n-butanoic acid (PFBA)	78.6	2.00	"	80.0		98.2	50-130				
Surrogate: M3PFBS	*45.5*		"	*74.3*		*61.2*	*25-150*				
Surrogate: M5PFHxA	*50.5*		"	*80.0*		*63.1*	*25-150*				
Surrogate: M4PFHpA	*54.9*		"	*80.0*		*68.6*	*25-150*				
Surrogate: M3PFHxS	*48.6*		"	*75.7*		*64.2*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*49.4*		"	*80.0*		*61.8*	*25-150*				
Surrogate: M6PFDA	*56.5*		"	*80.0*		*70.7*	*25-150*				
Surrogate: M7PFUdA	*47.2*		"	*80.0*		*59.0*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*45.6*		"	*80.0*		*57.0*	*25-150*				
Surrogate: M2PFTeDA	*31.0*		"	*80.0*		*38.7*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*68.6*		"	*80.0*		*85.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*46.0*		"	*76.6*		*60.0*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*49.5*		"	*80.0*		*61.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*49.4*		"	*80.0*		*61.7*	*10-150*				
Surrogate: d3-N-MeFOSAA	*53.9*		"	*80.0*		*67.3*	*25-150*				
Surrogate: d5-N-EtFOSAA	*47.4*		"	*80.0*		*59.3*	*25-150*				
Surrogate: M2-6:2 FTS	*59.8*		"	*75.9*		*78.8*	*25-150*				
Surrogate: M2-8:2 FTS	*60.8*		"	*76.6*		*79.4*	*25-150*				
Surrogate: M9PFNA	*52.5*		"	*80.0*		*65.6*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00144 - SPE Ext-PFAS-EPA 537.1M											
LCS (BE00144-BS2) LCS									Prepared: 05/05/2020 Analyzed: 05/08/2020		
Perfluorobutanesulfonic acid (PFBS)	71.0	2.00	ng/L	70.8		100	50-130				
Perfluorohexanoic acid (PFHxA)	71.9	2.00	"	80.0		89.9	50-130				
Perfluoroheptanoic acid (PFHpA)	68.8	2.00	"	80.0		85.9	50-130				
Perfluorohexanesulfonic acid (PFHxS)	57.9	2.00	"	59.2		97.8	50-130				
Perfluorooctanoic acid (PFOA)	73.5	2.00	"	80.0		91.9	50-130				
Perfluorooctanesulfonic acid (PFOS)	53.3	2.00	"	58.4		91.3	50-130				
Perfluorononanoic acid (PFNA)	69.4	2.00	"	76.8		90.4	50-130				
Perfluorodecanoic acid (PFDA)	75.0	2.00	"	80.0		93.8	50-130				
Perfluoroundecanoic acid (PFUnA)	76.6	2.00	"	80.0		95.7	50-130				
Perfluorododecanoic acid (PFDoA)	73.2	2.00	"	80.0		91.5	50-130				
Perfluorotridecanoic acid (PFTrDA)	65.2	2.00	"	80.0		81.5	50-130				
Perfluorotetradecanoic acid (PFTA)	78.0	2.00	"	80.0		97.5	50-130				
N-MeFOSAA	69.9	2.00	"	80.0		87.4	50-130				
N-EtFOSAA	73.0	2.00	"	80.0		91.3	50-130				
Perfluoropentanoic acid (PFPeA)	75.0	2.00	"	80.0		93.7	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	79.0	2.00	"	80.0		98.8	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	85.9	2.00	"	79.6		108	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	68.4	2.00	"	77.2		88.6	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	77.0	5.00	"	76.0		101	50-130				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	83.7	2.00	"	76.8		109	50-130				
Perfluoro-n-butanoic acid (PFBA)	78.1	2.00	"	80.0		97.7	50-130				
Surrogate: M3PFBS	*39.6*		"	*74.3*		*53.3*	*25-150*				
Surrogate: M5PFHxA	*44.4*		"	*80.0*		*55.5*	*25-150*				
Surrogate: M4PFHpA	*48.2*		"	*80.0*		*60.2*	*25-150*				
Surrogate: M3PFHxS	*41.9*		"	*75.7*		*55.4*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*45.7*		"	*80.0*		*57.1*	*25-150*				
Surrogate: M6PFDA	*48.6*		"	*80.0*		*60.7*	*25-150*				
Surrogate: M7PFUdA	*43.4*		"	*80.0*		*54.2*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*43.9*		"	*80.0*		*54.9*	*25-150*				
Surrogate: M2PFTeDA	*33.5*		"	*80.0*		*41.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*58.4*		"	*80.0*		*73.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*41.8*		"	*76.6*		*54.6*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*42.4*		"	*80.0*		*53.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*40.0*		"	*80.0*		*50.0*	*10-150*				
Surrogate: d3-N-MeFOSAA	*48.2*		"	*80.0*		*60.3*	*25-150*				
Surrogate: d5-N-EtFOSAA	*44.1*		"	*80.0*		*55.1*	*25-150*				
Surrogate: M2-6:2 FTS	*46.8*		"	*75.9*		*61.6*	*25-150*				
Surrogate: M2-8:2 FTS	*49.3*		"	*76.6*		*64.4*	*25-150*				
Surrogate: M9PFNA	*46.6*		"	*80.0*		*58.3*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00144 - SPE Ext-PFAS-EPA 537.1M											
LCS (BE00144-BS3) LCS									Prepared: 05/05/2020 Analyzed: 05/08/2020		
Perfluorobutanesulfonic acid (PFBS)	75.0	2.00	ng/L	70.8		106	50-130				
Perfluorohexanoic acid (PFHxA)	78.1	2.00	"	80.0		97.6	50-130				
Perfluoroheptanoic acid (PFHpA)	70.3	2.00	"	80.0		87.9	50-130				
Perfluorohexanesulfonic acid (PFHxS)	58.9	2.00	"	59.2		99.5	50-130				
Perfluorooctanoic acid (PFOA)	75.9	2.00	"	80.0		94.9	50-130				
Perfluorooctanesulfonic acid (PFOS)	60.4	2.00	"	58.4		104	50-130				
Perfluorononanoic acid (PFNA)	74.1	2.00	"	76.8		96.4	50-130				
Perfluorodecanoic acid (PFDA)	80.5	2.00	"	80.0		101	50-130				
Perfluoroundecanoic acid (PFUnA)	76.4	2.00	"	80.0		95.6	50-130				
Perfluorododecanoic acid (PFDoA)	75.8	2.00	"	80.0		94.8	50-130				
Perfluorotridecanoic acid (PFTrDA)	64.1	2.00	"	80.0		80.1	50-130				
Perfluorotetradecanoic acid (PFTA)	78.8	2.00	"	80.0		98.5	50-130				
N-MeFOSAA	73.5	2.00	"	80.0		91.9	50-130				
N-EtFOSAA	78.0	2.00	"	80.0		97.5	50-130				
Perfluoropentanoic acid (PFPeA)	76.3	2.00	"	80.0		95.4	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	82.9	2.00	"	80.0		104	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	88.8	2.00	"	79.6		112	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	68.6	2.00	"	77.2		88.8	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	69.4	5.00	"	76.0		91.4	50-130				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	85.4	2.00	"	76.8		111	50-130				
Perfluoro-n-butanoic acid (PFBA)	79.0	2.00	"	80.0		98.7	50-130				
Surrogate: M3PFBS	*41.0*		"	*74.3*		*55.2*	*25-150*				
Surrogate: M5PFHxA	*43.5*		"	*80.0*		*54.3*	*25-150*				
Surrogate: M4PFHpA	*48.8*		"	*80.0*		*61.0*	*25-150*				
Surrogate: M3PFHxS	*43.1*		"	*75.7*		*56.9*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*46.8*		"	*80.0*		*58.4*	*25-150*				
Surrogate: M6PFDA	*48.3*		"	*80.0*		*60.4*	*25-150*				
Surrogate: M7PFUdA	*43.9*		"	*80.0*		*54.9*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*42.8*		"	*80.0*		*53.5*	*25-150*				
Surrogate: M2PFTeDA	*29.3*		"	*80.0*		*36.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*51.0*		"	*80.0*		*63.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*41.5*		"	*76.6*		*54.2*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*42.7*		"	*80.0*		*53.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*39.7*		"	*80.0*		*49.6*	*10-150*				
Surrogate: d3-N-MeFOSAA	*47.1*		"	*80.0*		*58.8*	*25-150*				
Surrogate: d5-N-EtFOSAA	*41.8*		"	*80.0*		*52.2*	*25-150*				
Surrogate: M2-6:2 FTS	*52.6*		"	*75.9*		*69.2*	*25-150*				
Surrogate: M2-8:2 FTS	*55.9*		"	*76.6*		*72.9*	*25-150*				
Surrogate: M9PFNA	*45.6*		"	*80.0*		*57.0*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

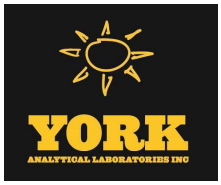
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00144 - SPE Ext-PFAS-EPA 537.1M											
LCS (BE00144-BS4) LCS									Prepared: 05/05/2020 Analyzed: 05/08/2020		
Perfluorobutanesulfonic acid (PFBS)	75.5	2.00	ng/L	70.8		107	50-130				
Perfluorohexanoic acid (PFHxA)	78.6	2.00	"	80.0		98.3	50-130				
Perfluoroheptanoic acid (PFHpA)	69.2	2.00	"	80.0		86.5	50-130				
Perfluorohexanesulfonic acid (PFHxS)	57.4	2.00	"	59.2		97.0	50-130				
Perfluorooctanoic acid (PFOA)	74.9	2.00	"	80.0		93.6	50-130				
Perfluorooctanesulfonic acid (PFOS)	60.7	2.00	"	58.4		104	50-130				
Perfluorononanoic acid (PFNA)	74.6	2.00	"	76.8		97.1	50-130				
Perfluorodecanoic acid (PFDA)	72.5	2.00	"	80.0		90.6	50-130				
Perfluoroundecanoic acid (PFUnA)	74.2	2.00	"	80.0		92.8	50-130				
Perfluorododecanoic acid (PFDoA)	75.8	2.00	"	80.0		94.7	50-130				
Perfluorotridecanoic acid (PFTrDA)	70.2	2.00	"	80.0		87.8	50-130				
Perfluorotetradecanoic acid (PFTA)	79.7	2.00	"	80.0		99.6	50-130				
N-MeFOSAA	75.7	2.00	"	80.0		94.7	50-130				
N-EtFOSAA	76.6	2.00	"	80.0		95.7	50-130				
Perfluoropentanoic acid (PFPeA)	78.1	2.00	"	80.0		97.6	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	77.7	2.00	"	80.0		97.1	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	88.9	2.00	"	79.6		112	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	72.2	2.00	"	77.2		93.6	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	65.1	5.00	"	76.0		85.6	50-130				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	86.4	2.00	"	76.8		113	50-130				
Perfluoro-n-butanoic acid (PFBA)	79.8	2.00	"	80.0		99.7	50-130				
Surrogate: M3PFBS	*43.9*		"	*74.3*		*59.0*	*25-150*				
Surrogate: M5PFHxA	*47.2*		"	*80.0*		*59.0*	*25-150*				
Surrogate: M4PFHpA	*52.3*		"	*80.0*		*65.4*	*25-150*				
Surrogate: M3PFHxS	*47.0*		"	*75.7*		*62.1*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*48.5*		"	*80.0*		*60.7*	*25-150*				
Surrogate: M6PFDA	*53.7*		"	*80.0*		*67.1*	*25-150*				
Surrogate: M7PFUdA	*48.1*		"	*80.0*		*60.1*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*47.7*		"	*80.0*		*59.6*	*25-150*				
Surrogate: M2PFTeDA	*39.3*		"	*80.0*		*49.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*66.0*		"	*80.0*		*82.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*44.4*		"	*76.6*		*58.0*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*47.2*		"	*80.0*		*59.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*42.4*		"	*80.0*		*53.0*	*10-150*				
Surrogate: d3-N-MeFOSAA	*50.1*		"	*80.0*		*62.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*44.9*		"	*80.0*		*56.1*	*25-150*				
Surrogate: M2-6:2 FTS	*56.0*		"	*75.9*		*73.8*	*25-150*				
Surrogate: M2-8:2 FTS	*55.5*		"	*76.6*		*72.4*	*25-150*				
Surrogate: M9PFNA	*49.6*		"	*80.0*		*61.9*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00144 - SPE Ext-PFAS-EPA 537.1M											
Duplicate (BE00144-DUP1) Duplicate	*Source sample: 20D0849-11 (MW06_043020)								Prepared: 05/05/2020 Analyzed: 05/08/2020		
Perfluorobutanesulfonic acid (PFBS)	9.21	2.00	ng/L		9.45				2.61	30	
Perfluorohexanoic acid (PFHxA)	18.4	2.00	"		22.3				19.1	30	
Perfluoroheptanoic acid (PFHpA)	18.3	2.00	"		20.5				11.6	30	
Perfluorohexanesulfonic acid (PFHxS)	2.49	2.00	"		2.69				7.91	30	
Perfluorooctanoic acid (PFOA)	175	2.00	"		178				1.85	30	
Perfluorooctanesulfonic acid (PFOS)	134	2.00	"		130				3.07	30	
Perfluorononanoic acid (PFNA)	9.77	2.00	"		9.87				1.00	30	
Perfluorodecanoic acid (PFDA)	2.77	2.00	"		2.52				9.52	30	
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"		ND					30	
Perfluorododecanoic acid (PFDoA)	ND	2.00	"		ND					30	
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"		ND					30	
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"		0.537					30	
N-MeFOSAA	ND	2.00	"		ND					30	
N-EtFOSAA	ND	2.00	"		0.726					30	
Perfluoropentanoic acid (PFPeA)	16.1	2.00	"		23.2				36.3	30	Non-dir.
Perfluoro-1-octanesulfonamide (FOSA)	0.574	2.00	"		0.700				19.7	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	1.05	2.00	"		0.894				15.6	30	
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"		ND					30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	5.00	"		ND					30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	2.00	"		ND					30	
Perfluoro-n-butanoic acid (PFBA)	17.3	2.00	"		18.2				4.91	30	
Surrogate: M3PFBS	*34.4*		"	*74.3*		*46.3*	*25-150*				
Surrogate: M5PFHxA	*36.0*		"	*80.0*		*45.0*	*25-150*				
Surrogate: M4PFHpA	*42.8*		"	*80.0*		*53.5*	*25-150*				
Surrogate: M3PFHxS	*38.4*		"	*75.7*		*50.7*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*43.0*		"	*80.0*		*53.8*	*25-150*				
Surrogate: M6PFDA	*36.8*		"	*80.0*		*46.0*	*25-150*				
Surrogate: M7PFUdA	*21.2*		"	*80.0*		*26.5*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*8.58*		"	*80.0*		*10.7*	*25-150*				
Surrogate: M2PFTeDA	*5.47*		"	*80.0*		*6.84*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*35.4*		"	*80.0*		*44.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*33.5*		"	*76.6*		*43.7*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*32.7*		"	*80.0*		*40.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*7.69*		"	*80.0*		*9.62*	*10-150*				
Surrogate: d3-N-MeFOSAA	*27.8*		"	*80.0*		*34.8*	*25-150*				
Surrogate: d5-N-EtFOSAA	*21.6*		"	*80.0*		*27.0*	*25-150*				
Surrogate: M2-6:2 FTS	*138*		"	*75.9*		*182*	*25-150*				
Surrogate: M2-8:2 FTS	*77.3*		"	*76.6*		*101*	*25-150*				
Surrogate: M9PFNA	*45.6*		"	*80.0*		*57.0*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Batch BE00144 - SPE Ext-PFAS-EPA 537.1M

Matrix Spike (BE00144-MS1) Matrix Spike *Source sample: 20D0849-12 (MW08_043020) Prepared: 05/05/2020 Analyzed: 05/08/2020

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Perfluorobutanesulfonic acid (PFBS)	79.5	2.00	ng/L	70.8	0.933	111	25-150				
Perfluorohexanoic acid (PFHxA)	83.6	2.00	"	80.0	3.22	100	25-150				
Perfluoroheptanoic acid (PFHpA)	71.2	2.00	"	80.0	2.59	85.8	25-150				
Perfluorohexanesulfonic acid (PFHxS)	73.5	2.00	"	59.2	0.618	123	25-150				
Perfluorooctanoic acid (PFOA)	102	2.00	"	80.0	27.7	93.4	25-150				
Perfluorooctanesulfonic acid (PFOS)	92.4	2.00	"	58.4	10.9	140	25-150				
Perfluorononanoic acid (PFNA)	72.6	2.00	"	76.8	0.984	93.2	25-150				
Perfluorodecanoic acid (PFDA)	77.6	2.00	"	80.0	ND	97.0	25-150				
Perfluoroundecanoic acid (PFUnA)	78.0	2.00	"	80.0	ND	97.5	25-150				
Perfluorododecanoic acid (PFDoA)	78.4	2.00	"	80.0	ND	97.9	25-150				
Perfluorotridecanoic acid (PFTrDA)	54.5	2.00	"	80.0	ND	68.2	25-150				
Perfluorotetradecanoic acid (PFTA)	77.3	2.00	"	80.0	0.671	95.8	25-150				
N-MeFOSAA	75.7	2.00	"	80.0	0.712	93.7	25-150				
N-EtFOSAA	86.7	2.00	"	80.0	ND	108	25-150				
Perfluoropentanoic acid (PFPeA)	80.1	2.00	"	80.0	3.08	96.3	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	83.9	2.00	"	80.0	0.816	104	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	94.1	2.00	"	79.6	ND	118	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	64.0	2.00	"	77.2	ND	82.9	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	72.5	5.00	"	76.0	ND	95.4	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	86.2	2.00	"	76.8	ND	112	25-150				
Perfluoro-n-butanoic acid (PFBA)	83.1	2.00	"	80.0	5.47	97.0	25-150				
Surrogate: M3PFBS	*37.2*		"	*74.3*		*50.0*	*25-150*				
Surrogate: M5PFHxA	*39.9*		"	*80.0*		*49.9*	*25-150*				
Surrogate: M4PFHpA	*49.6*		"	*80.0*		*62.0*	*25-150*				
Surrogate: M3PFHxS	*42.2*		"	*75.7*		*55.8*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*43.9*		"	*80.0*		*54.8*	*25-150*				
Surrogate: M6PFDA	*45.4*		"	*80.0*		*56.7*	*25-150*				
Surrogate: M7PFUdA	*36.1*		"	*80.0*		*45.1*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*30.8*		"	*80.0*		*38.5*	*25-150*				
Surrogate: M2PFTeDA	*11.5*		"	*80.0*		*14.4*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*47.5*		"	*80.0*		*59.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*39.2*		"	*76.6*		*51.2*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*38.1*		"	*80.0*		*47.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*33.6*		"	*80.0*		*42.0*	*10-150*				
Surrogate: d3-N-MeFOSAA	*38.3*		"	*80.0*		*47.8*	*25-150*				
Surrogate: d5-N-EtFOSAA	*32.7*		"	*80.0*		*40.9*	*25-150*				
Surrogate: M2-6:2 FTS	*67.4*		"	*75.9*		*88.8*	*25-150*				
Surrogate: M2-8:2 FTS	*52.2*		"	*76.6*		*68.1*	*25-150*				
Surrogate: M9PFNA	*45.7*		"	*80.0*		*57.1*	*25-150*				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00012 - % Solids Prep											
Duplicate (BE00012-DUP1) Duplicate	*Source sample: 20D0849-04 (SB12_0-2)							Prepared & Analyzed: 05/01/2020			
% Solids	88.9	0.100	%		90.8				2.10	20	

Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-CCV-H	The CCV recovery was slightly above acceptable limits for the qualified compound. However, sample results are not biased high because results are corrected for isotope recovery.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 20D0849

YOUR Information	Report To:	Invoice To:
Company: Langan	Company:	Company: same
Address: 360 west 31st street New York NY 10001	Address:	Address: same
Phone: 212 479 5400	Phone:	Phone: same
Contact: Kim Serven	Contact: Dina Palazzolo	Contact: same
E-mail: kserven@langan.com	E-mail: DPalazzolo@langan.com	E-mail: same

YOUR Project Number: 170610601

YOUR Project Name: 475 Bay Street

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)
Deirdre Casey

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil; Other

Samples From: New York X; New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections): Summary Report; QA Report; NY ASP A Package; ~~NY ASP B Package~~; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB16_0-2	S	4/30 0915	PFAS & 1,4 dioxane	1)8oz, 1)4oz, 4 VOAs
SB16_14-16	S	4/30 0920		1)250ml
SB16_18-20	S	4/30 0925		
SB12_0-2	S	4/30 1145		
SB12_8-10	S	4/30 1150		
SB12_18-20	S	4/30 1155		
MS-S001_043020	S	4/30 1145		
MSD-S001_043020	S	4/30 1145		
SB11_0-2	S	4/30 1440		
SB11_10-12	S	4/30 1445		

Comments:
MS/MSD-S001-043020 ~~Dup~~ Parent sample SB12_0-2

Preservation: (check all that apply)
HCl ___ MeOH X HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction: Field Filtered ___ Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Deirdre Casey Langan	4/30/20 1740		4/30/20		4/30/20 1938
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				TC	4/30/20 1938 / 1.2 Degrees C

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 20D0849

YOUR Information	Report To:	Invoice To:
Company: Langan	Company:	Company: same
Address: 360 west 31st Street, New York, NY 10001	Address:	Address: same
Phone: 212 479 5400	Phone:	Phone: same
Contact: K Semon	Contact: Dina Palazzolo	Contact: same
E-mail: ksemon@langan.com	E-mail: DPalazzolo@langan.com	E-mail: same

YOUR Project Number: 170610601

YOUR Project Name: 475 Bay Street

YOUR PO#:

Turn-Around Time
- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Deirdre Casey

Samples Collected by: (print your name above and sign below)

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil; Other

Samples From: New York X; New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections): Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB11_18-20	S	4/30 1450	PFAS & 1,4 dioxane	(QNE, (1)) 4oz, 3VOA, (1)250
SOFB02-043020	QA/QC	4/30 1200	PFAS & 1,4 dioxane	(6) 1L, (4) 250, 3 VOA
MW06_043020	GW	4/30 1414		
MW08_043020	GW	4/30 1055		
MW05_043020	GW	4/30		
GWDUP01_043020	GW	4/30 —		
GWFBOL_043020	QA/QC	4/30 1400		
GWTBOL_043020	QA/QC	4/30 —		

Comments:

Preservation: (check all that apply) HCl X MeOH X HNO_3 X H_2SO_4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction: Field Filtered X; Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Amelyn Langan	4/30/20 1740		4/30/20		4/30/20 1938
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				TC	4/30/20 1938 / 1.2 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Dina Palazzolo, Ms.

Report Date: 05/06/2020
Client Project ID: 170610601
York Project (SDG) No.: 20E0004

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 05/06/2020
Client Project ID: 170610601
York Project (SDG) No.: 20E0004

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Dina Palazzolo, Ms.

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 30, 2020 and listed below. The project was identified as your project: **170610601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
20E0004-01	SV04_043020	Soil Vapor	04/30/2020	04/30/2020
20E0004-02	SV07_043020	Soil Vapor	04/30/2020	04/30/2020
20E0004-03	AA01_043020	Outdoor Ambient Ai	04/30/2020	04/30/2020
20E0004-04	SS08_043020	Soil Vapor	04/30/2020	04/30/2020
20E0004-05	SS09_043020	Soil Vapor	04/30/2020	04/30/2020
20E0004-06	IA08_043020	Indoor Ambient Air	04/30/2020	04/30/2020
20E0004-07	IA09_043020	Indoor Ambient Air	04/30/2020	04/30/2020

General Notes for York Project (SDG) No.: 20E0004

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 05/06/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: SV04_043020 **York Sample ID:** 20E0004-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 2:33 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.1	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.87	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.1	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.87	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.64	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.16	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.2	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	**1,2,4-Trimethylbenzene**	**20**		ug/m³	0.78	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.2	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.96	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.64	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.73	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	**1,3,5-Trimethylbenzene**	**8.0**		ug/m³	0.78	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	1.1	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.96	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.73	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.96	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**11**		ug/m³	0.47	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: SV04_043020 **York Sample ID:** 20E0004-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 2:33 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	*** 2-Hexanone**	**3.5**		ug/m³	1.3	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	2.5	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.65	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-64-1	**Acetone**	**54**		ug/m³	0.76	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-13-1	Acrylonitrile	ND		ug/m³	0.35	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
71-43-2	**Benzene**	**2.1**		ug/m³	0.51	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
100-44-7	Benzyl chloride	ND		ug/m³	0.82	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-27-4	Bromodichloromethane	ND		ug/m³	1.1	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-25-2	Bromoform	ND		ug/m³	1.6	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-83-9	Bromomethane	ND		ug/m³	0.62	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-15-0	**Carbon disulfide**	**4.0**		ug/m³	0.50	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
56-23-5	**Carbon tetrachloride**	**0.40**		ug/m³	0.25	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-90-7	Chlorobenzene	ND		ug/m³	0.73	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-00-3	Chloroethane	ND		ug/m³	0.42	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-66-3	**Chloroform**	**5.0**		ug/m³	0.78	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-87-3	**Chloromethane**	**0.79**		ug/m³	0.33	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.16	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.72	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-82-7	**Cyclohexane**	**1.5**		ug/m³	0.55	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
124-48-1	Dibromochloromethane	ND		ug/m³	1.4	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-71-8	**Dichlorodifluoromethane**	**2.5**		ug/m³	0.79	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:			

Sample Information

Client Sample ID: SV04_043020 **York Sample ID:** 20E0004-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 2:33 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	**Ethyl Benzene**	**3.0**		ug/m³	0.69	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.7	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-63-0	**Isopropanol**	**29**		ug/m³	0.78	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
80-62-6	**Methyl Methacrylate**	**15**		ug/m³	0.65	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.57	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-09-2	Methylene chloride	ND		ug/m³	1.1	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
142-82-5	**n-Heptane**	**8.8**		ug/m³	0.65	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-54-3	**n-Hexane**	**3.5**		ug/m³	0.56	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
95-47-6	**o-Xylene**	**6.8**		ug/m³	0.69	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
179601-23-1	**p- & m- Xylenes**	**13**		ug/m³	1.4	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
622-96-8	*** p-Ethyltoluene**	**11**		ug/m³	0.78	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.27	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.68	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
127-18-4	**Tetrachloroethylene**	**13**	TO-CCV, TO-LCS-L	ug/m³	1.1	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.94	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:			
108-88-3	**Toluene**	**8.5**		ug/m³	0.60	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.63	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.72	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
79-01-6	Trichloroethylene	ND		ug/m³	0.21	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.7**		ug/m³	0.89	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-05-4	Vinyl acetate	ND		ug/m³	0.56	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: SV04_043020 **York Sample ID:** 20E0004-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 2:33 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
593-60-2	Vinyl bromide	ND		ug/m³	0.70	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ug/m³	0.20	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*116 %*	*70-130*

Sample Information

Client Sample ID: SV07_043020 **York Sample ID:** 20E0004-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 2:30 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.1	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.88	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.1	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.88	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.65	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.16	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.2	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	**1,2,4-Trimethylbenzene**	**28**		ug/m³	0.79	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.2	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.97	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.65	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.74	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	**1,3,5-Trimethylbenzene**	**12**		ug/m³	0.79	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	**1,3-Butadiene**	**1.1**		ug/m³	1.1	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.97	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.74	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.97	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	1.2	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**8.9**		ug/m³	0.47	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	*** 2-Hexanone**	**2.9**		ug/m³	1.3	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:			

Sample Information

Client Sample ID: SV07_043020 **York Sample ID:** 20E0004-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 2:30 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	2.5	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-10-1	**4-Methyl-2-pentanone**	**0.79**		ug/m³	0.66	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-64-1	**Acetone**	**29**		ug/m³	0.76	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-13-1	Acrylonitrile	ND		ug/m³	0.35	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
71-43-2	**Benzene**	**9.9**		ug/m³	0.51	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
100-44-7	Benzyl chloride	ND		ug/m³	0.83	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-27-4	Bromodichloromethane	ND		ug/m³	1.1	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-25-2	Bromoform	ND		ug/m³	1.7	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-83-9	Bromomethane	ND		ug/m³	0.62	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-15-0	**Carbon disulfide**	**13**		ug/m³	0.50	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
56-23-5	Carbon tetrachloride	ND		ug/m³	0.25	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-90-7	Chlorobenzene	ND		ug/m³	0.74	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-00-3	**Chloroethane**	**1.1**		ug/m³	0.42	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-66-3	**Chloroform**	**4.2**		ug/m³	0.78	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-87-3	Chloromethane	ND		ug/m³	0.33	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.16	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.73	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-82-7	**Cyclohexane**	**7.8**		ug/m³	0.55	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
124-48-1	Dibromochloromethane	ND		ug/m³	1.4	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-71-8	**Dichlorodifluoromethane**	**2.2**		ug/m³	0.79	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
141-78-6	* Ethyl acetate	ND		ug/m³	1.2	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:			
100-41-4	**Ethyl Benzene**	**2.7**		ug/m³	0.70	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: SV07_043020 **York Sample ID:** 20E0004-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 2:30 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.7	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	**Isopropanol**	**2.3**		ug/m³	0.79	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.66	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.58	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	Methylene chloride	ND		ug/m³	1.1	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	**n-Heptane**	**11**		ug/m³	0.66	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	**n-Hexane**	**22**		ug/m³	0.57	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**6.8**		ug/m³	0.70	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**12**		ug/m³	1.4	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	*** p-Ethyltoluene**	**14**		ug/m³	0.79	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.28	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.68	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	**Tetrachloroethylene**	**13**	TO-CCV, TO-LCS-L	ug/m³	1.1	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.95	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:			
108-88-3	**Toluene**	**13**		ug/m³	0.61	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.64	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.73	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.22	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**2.1**		ug/m³	0.90	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.57	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.70	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: SV07_043020 **York Sample ID:** 20E0004-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 2:30 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.21	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*113 %*	*70-130*

Sample Information

Client Sample ID: AA01_043020 **York Sample ID:** 20E0004-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Outdoor Ambient Air	April 30, 2020 2:31 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.55	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.44	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.55	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.61	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.44	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.32	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.079	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.60	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.39	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.62	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.48	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.32	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.37	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.56	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.39	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	0.53	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.48	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.37	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.48	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	0.58	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**1.0**		ug/m³	0.24	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	* 2-Hexanone	ND		ug/m³	0.66	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:			

Sample Information

Client Sample ID: AA01_043020 **York Sample ID:** 20E0004-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Outdoor Ambient Air	April 30, 2020 2:31 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	1.3	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.33	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-64-1	**Acetone**	**6.6**		ug/m³	0.38	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-13-1	Acrylonitrile	ND		ug/m³	0.17	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
71-43-2	**Benzene**	**0.41**		ug/m³	0.26	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
100-44-7	Benzyl chloride	ND		ug/m³	0.42	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-27-4	Bromodichloromethane	ND		ug/m³	0.54	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-25-2	Bromoform	ND		ug/m³	0.83	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-83-9	Bromomethane	ND		ug/m³	0.31	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-15-0	Carbon disulfide	ND		ug/m³	0.25	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
56-23-5	**Carbon tetrachloride**	**0.50**		ug/m³	0.13	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-90-7	Chlorobenzene	ND		ug/m³	0.37	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-00-3	Chloroethane	ND		ug/m³	0.21	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-66-3	Chloroform	ND		ug/m³	0.39	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-87-3	**Chloromethane**	**1.2**		ug/m³	0.17	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.079	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.36	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-82-7	Cyclohexane	ND		ug/m³	0.28	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
124-48-1	Dibromochloromethane	ND		ug/m³	0.68	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-71-8	**Dichlorodifluoromethane**	**1.6**		ug/m³	0.40	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
141-78-6	* Ethyl acetate	ND		ug/m³	0.58	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:			
100-41-4	**Ethyl Benzene**	**0.38**		ug/m³	0.35	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: AA01_043020 **York Sample ID:** 20E0004-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Outdoor Ambient Air	April 30, 2020 2:31 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.86	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	**Isopropanol**	**26**		ug/m³	0.39	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	**Methyl Methacrylate**	**6.1**		ug/m³	0.33	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.29	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	**Methylene chloride**	**1.5**		ug/m³	0.56	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	n-Heptane	ND		ug/m³	0.33	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	**n-Hexane**	**0.42**		ug/m³	0.28	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**0.38**		ug/m³	0.35	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**1.1**		ug/m³	0.70	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.39	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.14	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:			
100-42-5	**Styrene**	**0.34**		ug/m³	0.34	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	Tetrachloroethylene	ND		ug/m³	0.54	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.47	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:			
108-88-3	**Toluene**	**2.2**		ug/m³	0.30	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.32	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.36	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.11	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.4**		ug/m³	0.45	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.28	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.35	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ug/m³	0.10	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: AA01_043020 **York Sample ID:** 20E0004-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Outdoor Ambient Air	April 30, 2020 2:31 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*110 %*		*70-130*						

Sample Information

Client Sample ID: SS08_043020 **York Sample ID:** 20E0004-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 5:13 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.2	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.92	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.2	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.3	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.92	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.68	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.17	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.2	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	**1,2,4-Trimethylbenzene**	**9.9**		ug/m³	0.83	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.3	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	1.0	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.68	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.78	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.2	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	**1,3,5-Trimethylbenzene**	**2.6**		ug/m³	0.83	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	1.1	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	1.0	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.78	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	1.0	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	1.2	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**1.2**		ug/m³	0.50	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	* 2-Hexanone	ND		ug/m³	1.4	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:			

Sample Information

Client Sample ID: SS08_043020 **York Sample ID:** 20E0004-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 5:13 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	2.6	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.69	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-64-1	**Acetone**	**6.7**		ug/m³	0.80	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-13-1	Acrylonitrile	ND		ug/m³	0.36	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
71-43-2	**Benzene**	**3.1**		ug/m³	0.54	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
100-44-7	Benzyl chloride	ND		ug/m³	0.87	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-27-4	Bromodichloromethane	ND		ug/m³	1.1	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-25-2	Bromoform	ND		ug/m³	1.7	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-83-9	Bromomethane	ND		ug/m³	0.65	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-15-0	**Carbon disulfide**	**1.2**		ug/m³	0.52	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
56-23-5	**Carbon tetrachloride**	**0.42**		ug/m³	0.26	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-90-7	Chlorobenzene	ND		ug/m³	0.77	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-00-3	Chloroethane	ND		ug/m³	0.44	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-66-3	**Chloroform**	**9.9**		ug/m³	0.82	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-87-3	Chloromethane	ND		ug/m³	0.35	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.17	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.76	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-82-7	**Cyclohexane**	**1.3**		ug/m³	0.58	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
124-48-1	Dibromochloromethane	ND		ug/m³	1.4	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-71-8	**Dichlorodifluoromethane**	**2.3**		ug/m³	0.83	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
141-78-6	* Ethyl acetate	ND		ug/m³	1.2	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:			
100-41-4	**Ethyl Benzene**	**14**		ug/m³	0.73	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: SS08_043020 **York Sample ID:** 20E0004-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 5:13 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.8	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	**Isopropanol**	**4.8**		ug/m³	0.83	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.69	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.61	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	Methylene chloride	ND		ug/m³	1.2	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	**n-Heptane**	**6.1**		ug/m³	0.69	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	**n-Hexane**	**5.8**		ug/m³	0.59	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**13**		ug/m³	0.73	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**55**		ug/m³	1.5	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	*** p-Ethyltoluene**	**13**		ug/m³	0.83	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.29	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:			
100-42-5	**Styrene**	**1.6**		ug/m³	0.72	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	**Tetrachloroethylene**	**35**	TO-CCV, TO-LCS-L	ug/m³	1.1	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.99	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:			
108-88-3	**Toluene**	**55**		ug/m³	0.63	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.67	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.76	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.23	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.3**		ug/m³	0.94	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.59	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.74	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: SS08_043020 **York Sample ID:** 20E0004-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 5:13 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.21	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*70-130*

Sample Information

Client Sample ID: SS09_043020 **York Sample ID:** 20E0004-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 5:12 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.2	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.92	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.2	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.3	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.92	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.68	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.17	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.2	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	**1,2,4-Trimethylbenzene**	**17**		ug/m³	0.83	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.3	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	1.0	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.68	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.78	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.2	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	**1,3,5-Trimethylbenzene**	**3.8**		ug/m³	0.83	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	1.1	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	1.0	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.78	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	1.0	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	1.2	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**1.1**		ug/m³	0.50	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	* 2-Hexanone	ND		ug/m³	1.4	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:			

Sample Information

Client Sample ID: SS09_043020 **York Sample ID:** 20E0004-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 5:12 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	2.6	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.69	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-64-1	**Acetone**	**4.8**		ug/m³	0.80	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-13-1	Acrylonitrile	ND		ug/m³	0.37	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
71-43-2	**Benzene**	**2.4**		ug/m³	0.54	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
100-44-7	Benzyl chloride	ND		ug/m³	0.87	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-27-4	Bromodichloromethane	ND		ug/m³	1.1	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-25-2	Bromoform	ND		ug/m³	1.7	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-83-9	Bromomethane	ND		ug/m³	0.65	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-15-0	**Carbon disulfide**	**4.2**		ug/m³	0.52	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
56-23-5	Carbon tetrachloride	ND		ug/m³	0.26	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-90-7	Chlorobenzene	ND		ug/m³	0.77	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-00-3	Chloroethane	ND		ug/m³	0.44	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-66-3	**Chloroform**	**0.99**		ug/m³	0.82	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-87-3	Chloromethane	ND		ug/m³	0.35	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.17	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.76	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-82-7	**Cyclohexane**	**3.2**		ug/m³	0.58	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
124-48-1	Dibromochloromethane	ND		ug/m³	1.4	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-71-8	**Dichlorodifluoromethane**	**2.6**		ug/m³	0.83	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
141-78-6	* Ethyl acetate	ND		ug/m³	1.2	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:			
100-41-4	**Ethyl Benzene**	**19**		ug/m³	0.73	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: SS09_043020 **York Sample ID:** 20E0004-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 5:12 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.8	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	**Isopropanol**	**4.9**		ug/m³	0.83	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.69	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**10**		ug/m³	0.61	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	Methylene chloride	ND		ug/m³	1.2	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	**n-Heptane**	**16**		ug/m³	0.69	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	**n-Hexane**	**6.5**		ug/m³	0.59	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**19**		ug/m³	0.73	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**76**		ug/m³	1.5	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	*** p-Ethyltoluene**	**22**		ug/m³	0.83	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.29	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:			
100-42-5	**Styrene**	**2.2**		ug/m³	0.72	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	**Tetrachloroethylene**	**20**	TO-CCV, TO-LCS-L	ug/m³	1.1	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.99	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:			
108-88-3	**Toluene**	**50**		ug/m³	0.63	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.67	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.76	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.23	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.1**		ug/m³	0.95	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.59	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.74	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: SS09_043020 **York Sample ID:** 20E0004-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 5:12 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.22	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*118 %*	*70-130*

Sample Information

Client Sample ID: IA08_043020 **York Sample ID:** 20E0004-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Indoor Ambient Air	April 30, 2020 5:23 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.55	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.44	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.55	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.62	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.44	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.33	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.080	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.60	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	**1,2,4-Trimethylbenzene**	**0.55**		ug/m³	0.40	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.62	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.48	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.33	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.37	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.56	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.40	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	0.53	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.48	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.37	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.48	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	0.58	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**0.76**		ug/m³	0.24	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	* 2-Hexanone	ND		ug/m³	0.66	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:			

Sample Information

Client Sample ID: IA08_043020 **York Sample ID:** 20E0004-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Indoor Ambient Air	April 30, 2020 5:23 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	1.3	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.33	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-64-1	**Acetone**	**8.4**		ug/m³	0.38	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-13-1	Acrylonitrile	ND		ug/m³	0.17	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
71-43-2	**Benzene**	**0.28**		ug/m³	0.26	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
100-44-7	Benzyl chloride	ND		ug/m³	0.42	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-27-4	Bromodichloromethane	ND		ug/m³	0.54	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-25-2	Bromoform	ND		ug/m³	0.83	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-83-9	Bromomethane	ND		ug/m³	0.31	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-15-0	Carbon disulfide	ND		ug/m³	0.25	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
56-23-5	**Carbon tetrachloride**	**0.51**		ug/m³	0.13	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-90-7	Chlorobenzene	ND		ug/m³	0.37	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-00-3	Chloroethane	ND		ug/m³	0.21	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-66-3	Chloroform	ND		ug/m³	0.39	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-87-3	**Chloromethane**	**1.0**		ug/m³	0.17	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.080	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.37	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-82-7	Cyclohexane	ND		ug/m³	0.28	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
124-48-1	Dibromochloromethane	ND		ug/m³	0.69	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-71-8	**Dichlorodifluoromethane**	**1.9**		ug/m³	0.40	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
141-78-6	* Ethyl acetate	ND		ug/m³	0.58	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:			
100-41-4	**Ethyl Benzene**	**0.52**		ug/m³	0.35	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: IA08_043020 **York Sample ID:** 20E0004-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Indoor Ambient Air	April 30, 2020 5:23 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.86	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	**Isopropanol**	**9.8**		ug/m³	0.40	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	**Methyl Methacrylate**	**0.40**		ug/m³	0.33	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.29	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	Methylene chloride	ND		ug/m³	0.56	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	**n-Heptane**	**0.36**		ug/m³	0.33	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	n-Hexane	ND		ug/m³	0.28	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**0.63**		ug/m³	0.35	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**1.9**		ug/m³	0.70	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.40	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.14	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.34	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	Tetrachloroethylene	ND		ug/m³	0.55	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.48	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:			
108-88-3	**Toluene**	**4.7**		ug/m³	0.30	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.32	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.37	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.11	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.3**		ug/m³	0.45	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.28	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.35	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ug/m³	0.10	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: IA08_043020 **York Sample ID:** 20E0004-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Indoor Ambient Air	April 30, 2020 5:23 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*		*70-130*						

Sample Information

Client Sample ID: IA09_043020 **York Sample ID:** 20E0004-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Indoor Ambient Air	April 30, 2020 5:23 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.65	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.52	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.65	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.73	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.52	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.39	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.094	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.71	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.47	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.73	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.57	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.39	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.44	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.67	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.47	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	0.63	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.57	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.44	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.57	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	0.69	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**0.79**		ug/m³	0.28	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	* 2-Hexanone	ND		ug/m³	0.78	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:			

Sample Information

Client Sample ID: IA09_043020 **York Sample ID:** 20E0004-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Indoor Ambient Air	April 30, 2020 5:23 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	1.5	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.39	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-64-1	**Acetone**	**4.2**		ug/m³	0.45	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-13-1	Acrylonitrile	ND		ug/m³	0.21	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
71-43-2	**Benzene**	**0.30**		ug/m³	0.30	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
100-44-7	Benzyl chloride	ND		ug/m³	0.49	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-27-4	Bromodichloromethane	ND		ug/m³	0.64	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-25-2	Bromoform	ND		ug/m³	0.99	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-83-9	Bromomethane	ND		ug/m³	0.37	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-15-0	Carbon disulfide	ND		ug/m³	0.30	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
56-23-5	**Carbon tetrachloride**	**0.48**		ug/m³	0.15	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-90-7	Chlorobenzene	ND		ug/m³	0.44	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-00-3	Chloroethane	ND		ug/m³	0.25	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-66-3	Chloroform	ND		ug/m³	0.47	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-87-3	**Chloromethane**	**1.1**		ug/m³	0.20	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.094	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.43	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-82-7	Cyclohexane	ND		ug/m³	0.33	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
124-48-1	Dibromochloromethane	ND		ug/m³	0.81	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-71-8	**Dichlorodifluoromethane**	**1.9**		ug/m³	0.47	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
141-78-6	* Ethyl acetate	ND		ug/m³	0.69	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:			
100-41-4	**Ethyl Benzene**	**0.50**		ug/m³	0.41	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: IA09_043020 **York Sample ID:** 20E0004-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Indoor Ambient Air	April 30, 2020 5:23 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.0	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	**Isopropanol**	**1.6**		ug/m³	0.47	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.39	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.34	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	Methylene chloride	ND		ug/m³	0.66	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	n-Heptane	ND		ug/m³	0.39	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	n-Hexane	ND		ug/m³	0.34	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**0.54**		ug/m³	0.41	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**1.6**		ug/m³	0.83	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.47	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.16	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.41	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	Tetrachloroethylene	ND		ug/m³	0.65	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.56	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:			
108-88-3	**Toluene**	**2.7**		ug/m³	0.36	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.38	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.43	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.13	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.3**		ug/m³	0.54	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.34	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.42	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ug/m³	0.12	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: IA09_043020 **York Sample ID:** 20E0004-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Indoor Ambient Air	April 30, 2020 5:23 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*		*70-130*						

Analytical Batch Summary

Batch ID: BE00112 **Preparation Method:** EPA TO15 PREP **Prepared By:** AS

YORK Sample ID	Client Sample ID	Preparation Date
20E0004-01	SV04_043020	05/01/20
20E0004-02	SV07_043020	05/01/20
20E0004-04	SS08_043020	05/01/20
20E0004-05	SS09_043020	05/01/20
20E0004-06	IA08_043020	05/01/20
20E0004-07	IA09_043020	05/01/20
BE00112-BLK1	Blank	05/01/20
BE00112-BS1	LCS	05/01/20
BE00112-DUP1	Duplicate	05/01/20

Batch ID: BE00113 **Preparation Method:** EPA TO15 PREP **Prepared By:** AS

YORK Sample ID	Client Sample ID	Preparation Date
20E0004-03	AA01_043020	05/05/20
BE00113-BLK1	Blank	05/05/20
BE00113-BS1	LCS	05/05/20

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00112 - EPA TO15 PREP											
Blank (BE00112-BLK1) Blank									Prepared: 05/01/2020 Analyzed: 05/02/2020		
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								
n-Heptane	ND	0.41	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

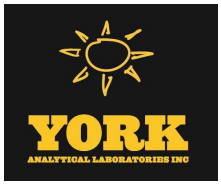
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00112 - EPA TO15 PREP											
Blank (BE00112-BLK1) Blank								Prepared: 05/01/2020 Analyzed: 05/02/2020			
n-Hexane	ND	0.35	ug/m³								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.68	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.13	"								
Surrogate: SURR: p-Bromofluorobenzene	*9.39*		*ppbv*	*10.0*		*93.9*	*70-130*				
LCS (BE00112-BS1) LCS								Prepared & Analyzed: 05/01/2020			
1,1,1,2-Tetrachloroethane	9.70		ppbv	10.0		97.0	70-130				
1,1,1-Trichloroethane	9.85		"	10.0		98.5	70-130				
1,1,2,2-Tetrachloroethane	10.9		"	10.0		109	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.50		"	10.0		95.0	70-130				
1,1,2-Trichloroethane	10.4		"	10.0		104	70-130				
1,1-Dichloroethane	10.0		"	10.0		100	70-130				
1,1-Dichloroethylene	10.3		"	10.0		103	70-130				
1,2,4-Trichlorobenzene	6.99		"	10.0		69.9	70-130	Low Bias			
1,2,4-Trimethylbenzene	10.7		"	10.0		107	70-130				
1,2-Dibromoethane	10.3		"	10.0		103	70-130				
1,2-Dichlorobenzene	10.3		"	10.0		103	70-130				
1,2-Dichloroethane	10.3		"	10.0		103	70-130				
1,2-Dichloropropane	10.6		"	10.0		106	70-130				
1,2-Dichlorotetrafluoroethane	9.86		"	10.0		98.6	70-130				
1,3,5-Trimethylbenzene	10.0		"	10.0		100	70-130				
1,3-Butadiene	9.34		"	10.0		93.4	70-130				
1,3-Dichlorobenzene	10.5		"	10.0		105	70-130				
1,3-Dichloropropane	10.7		"	10.0		107	70-130				
1,4-Dichlorobenzene	10.6		"	10.0		106	70-130				
1,4-Dioxane	10.1		"	10.0		101	70-130				
2-Butanone	9.88		"	10.0		98.8	70-130				
2-Hexanone	11.5		"	10.0		115	70-130				
3-Chloropropene	9.62		"	10.0		96.2	70-130				
4-Methyl-2-pentanone	11.2		"	10.0		112	70-130				
Acetone	9.57		"	10.0		95.7	70-130				
Acrylonitrile	9.85		"	10.0		98.5	70-130				
Benzene	9.45		"	10.0		94.5	70-130				
Benzyl chloride	8.30		"	10.0		83.0	70-130				
Bromodichloromethane	11.0		"	10.0		110	70-130				
Bromoform	10.2		"	10.0		102	70-130				
Bromomethane	9.29		"	10.0		92.9	70-130				
Carbon disulfide	10.2		"	10.0		102	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00112 - EPA TO15 PREP											
LCS (BE00112-BS1) LCS							Prepared & Analyzed: 05/01/2020				
Carbon tetrachloride	10.0		ppbv	10.0		100	70-130				
Chlorobenzene	9.68		"	10.0		96.8	70-130				
Chloroethane	10.5		"	10.0		105	70-130				
Chloroform	9.98		"	10.0		99.8	70-130				
Chloromethane	7.96		"	10.0		79.6	70-130				
cis-1,2-Dichloroethylene	9.99		"	10.0		99.9	70-130				
cis-1,3-Dichloropropylene	11.2		"	10.0		112	70-130				
Cyclohexane	9.85		"	10.0		98.5	70-130				
Dibromochloromethane	10.4		"	10.0		104	70-130				
Dichlorodifluoromethane	11.6		"	10.0		116	70-130				
Ethyl acetate	12.2		"	10.0		122	70-130				
Ethyl Benzene	10.0		"	10.0		100	70-130				
Hexachlorobutadiene	10.2		"	10.0		102	70-130				
Isopropanol	9.54		"	10.0		95.4	70-130				
Methyl Methacrylate	10.8		"	10.0		108	70-130				
Methyl tert-butyl ether (MTBE)	9.73		"	10.0		97.3	70-130				
Methylene chloride	9.09		"	10.0		90.9	70-130				
n-Heptane	9.68		"	10.0		96.8	70-130				
n-Hexane	9.83		"	10.0		98.3	70-130				
o-Xylene	10.2		"	10.0		102	70-130				
p- & m- Xylenes	20.6		"	20.0		103	70-130				
p-Ethyltoluene	10.6		"	10.0		106	70-130				
Propylene	9.19		"	10.0		91.9	70-130				
Styrene	10.4		"	10.0		104	70-130				
Tetrachloroethylene	6.99		"	10.0		69.9	70-130	Low Bias			
Tetrahydrofuran	9.95		"	10.0		99.5	70-130				
Toluene	9.96		"	10.0		99.6	70-130				
trans-1,2-Dichloroethylene	10.4		"	10.0		104	70-130				
trans-1,3-Dichloropropylene	11.1		"	10.0		111	70-130				
Trichloroethylene	10.7		"	10.0		107	70-130				
Trichlorofluoromethane (Freon 11)	9.53		"	10.0		95.3	70-130				
Vinyl acetate	8.14		"	10.0		81.4	70-130				
Vinyl bromide	8.86		"	10.0		88.6	70-130				
Vinyl Chloride	7.76		"	10.0		77.6	70-130				
Surrogate: SURR: p-Bromofluorobenzene	*10.5*		*"*	*10.0*		*105*	*70-130*				



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00112 - EPA TO15 PREP											
Duplicate (BE00112-DUP1) Duplicate	*Source sample: 20E0004-07 (IA09_043020)								Prepared: 05/01/2020 Analyzed: 05/02/2020		
1,1,1,2-Tetrachloroethane	ND	0.65	ug/m³		ND					25	
1,1,1-Trichloroethane	ND	0.52	"		ND					25	
1,1,2,2-Tetrachloroethane	ND	0.65	"		ND					25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.73	"		ND					25	
1,1,2-Trichloroethane	ND	0.52	"		ND					25	
1,1-Dichloroethane	ND	0.39	"		ND					25	
1,1-Dichloroethylene	ND	0.094	"		ND					25	
1,2,4-Trichlorobenzene	ND	0.71	"		ND					25	
1,2,4-Trimethylbenzene	0.33	0.47	"		0.33				0.00	25	
1,2-Dibromoethane	ND	0.73	"		ND					25	
1,2-Dichlorobenzene	ND	0.57	"		ND					25	
1,2-Dichloroethane	ND	0.39	"		ND					25	
1,2-Dichloropropane	ND	0.44	"		ND					25	
1,2-Dichlorotetrafluoroethane	ND	0.67	"		ND					25	
1,3,5-Trimethylbenzene	ND	0.47	"		ND					25	
1,3-Butadiene	ND	0.63	"		ND					25	
1,3-Dichlorobenzene	ND	0.57	"		ND					25	
1,3-Dichloropropane	ND	0.44	"		ND					25	
1,4-Dichlorobenzene	ND	0.57	"		ND					25	
1,4-Dioxane	ND	0.69	"		ND					25	
2-Butanone	0.76	0.28	"		0.79				3.64	25	
2-Hexanone	ND	0.78	"		ND					25	
3-Chloropropene	ND	1.5	"		ND					25	
4-Methyl-2-pentanone	ND	0.39	"		ND					25	
Acetone	4.2	0.45	"		4.2				0.00	25	
Acrylonitrile	ND	0.21	"		ND					25	
Benzene	0.37	0.30	"		0.30				18.2	25	
Benzyl chloride	ND	0.49	"		ND					25	
Bromodichloromethane	ND	0.64	"		ND					25	
Bromoform	ND	0.99	"		ND					25	
Bromomethane	ND	0.37	"		ND					25	
Carbon disulfide	ND	0.30	"		ND					25	
Carbon tetrachloride	0.48	0.15	"		0.48				0.00	25	
Chlorobenzene	ND	0.44	"		ND					25	
Chloroethane	ND	0.25	"		ND					25	
Chloroform	ND	0.47	"		ND					25	
Chloromethane	1.1	0.20	"		1.1				7.14	25	
cis-1,2-Dichloroethylene	ND	0.094	"		ND					25	
cis-1,3-Dichloropropylene	ND	0.43	"		ND					25	
Cyclohexane	ND	0.33	"		ND					25	
Dibromochloromethane	ND	0.81	"		ND					25	
Dichlorodifluoromethane	1.8	0.47	"		1.9				2.53	25	
Ethyl acetate	ND	0.69	"		ND					25	
Ethyl Benzene	0.50	0.41	"		0.50				0.00	25	
Hexachlorobutadiene	ND	1.0	"		ND					25	
Isopropanol	1.6	0.47	"		1.6				0.00	25	
Methyl Methacrylate	0.23	0.39	"		0.23				0.00	25	
Methyl tert-butyl ether (MTBE)	ND	0.34	"		ND					25	
Methylene chloride	ND	0.66	"		ND					25	
n-Heptane	0.20	0.39	"		0.20				0.00	25	
n-Hexane	ND	0.34	"		ND					25	

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00112 - EPA TO15 PREP											
Duplicate (BE00112-DUP1) Duplicate	*Source sample: 20E0004-07 (IA09_043020)								Prepared: 05/01/2020 Analyzed: 05/02/2020		
o-Xylene	0.54	0.41	ug/m³		0.54				0.00	25	
p- & m- Xylenes	1.6	0.83	"		1.6				2.60	25	
p-Ethyltoluene	ND	0.47	"		ND					25	
Propylene	ND	0.16	"		ND					25	
Styrene	ND	0.41	"		ND					25	
Tetrachloroethylene	0.39	0.65	"		0.39				0.00	25	
Tetrahydrofuran	ND	0.56	"		ND					25	
Toluene	2.7	0.36	"		2.7				1.32	25	
trans-1,2-Dichloroethylene	ND	0.38	"		ND					25	
trans-1,3-Dichloropropylene	ND	0.43	"		ND					25	
Trichloroethylene	ND	0.13	"		ND					25	
Trichlorofluoromethane (Freon 11)	1.3	0.54	"		1.3				0.00	25	
Vinyl acetate	ND	0.34	"		ND					25	
Vinyl bromide	ND	0.42	"		ND					25	
Vinyl Chloride	ND	0.12	"		ND					25	
Surrogate: SURR: p-Bromofluorobenzene	*10.6*		*ppbv*	*10.0*		*106*	*70-130*				
Batch BE00113 - EPA TO15 PREP											
Blank (BE00113-BLK1) Blank									Prepared & Analyzed: 05/05/2020		
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00113 - EPA TO15 PREP											
Blank (BE00113-BLK1) Blank									Prepared & Analyzed: 05/05/2020		
Carbon disulfide	ND	0.31	ug/m³								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								
n-Heptane	ND	0.41	"								
n-Hexane	ND	0.35	"								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.68	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.13	"								
Surrogate: SURR: p-Bromofluorobenzene	*9.74*		*ppbv*	*10.0*		*97.4*	*70-130*				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Batch BE00113 - EPA TO15 PREP

LCS (BE00113-BS1) LCS — Prepared & Analyzed: 05/05/2020

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1,1,2-Tetrachloroethane	9.75		ppbv	10.0		97.5	70-130				
1,1,1-Trichloroethane	9.97		"	10.0		99.7	70-130				
1,1,2,2-Tetrachloroethane	10.9		"	10.0		109	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.62		"	10.0		96.2	70-130				
1,1,2-Trichloroethane	10.5		"	10.0		105	70-130				
1,1-Dichloroethane	10.2		"	10.0		102	70-130				
1,1-Dichloroethylene	10.6		"	10.0		106	70-130				
1,2,4-Trichlorobenzene	7.31		"	10.0		73.1	70-130				
1,2,4-Trimethylbenzene	10.7		"	10.0		107	70-130				
1,2-Dibromoethane	10.5		"	10.0		105	70-130				
1,2-Dichlorobenzene	10.3		"	10.0		103	70-130				
1,2-Dichloroethane	10.6		"	10.0		106	70-130				
1,2-Dichloropropane	10.8		"	10.0		108	70-130				
1,2-Dichlorotetrafluoroethane	9.83		"	10.0		98.3	70-130				
1,3,5-Trimethylbenzene	10.3		"	10.0		103	70-130				
1,3-Butadiene	10.0		"	10.0		100	70-130				
1,3-Dichlorobenzene	10.5		"	10.0		105	70-130				
1,3-Dichloropropane	10.9		"	10.0		109	70-130				
1,4-Dichlorobenzene	10.6		"	10.0		106	70-130				
1,4-Dioxane	10.2		"	10.0		102	70-130				
2-Butanone	10.1		"	10.0		101	70-130				
2-Hexanone	11.7		"	10.0		117	70-130				
3-Chloropropene	9.89		"	10.0		98.9	70-130				
4-Methyl-2-pentanone	11.4		"	10.0		114	70-130				
Acetone	9.80		"	10.0		98.0	70-130				
Acrylonitrile	9.97		"	10.0		99.7	70-130				
Benzene	9.68		"	10.0		96.8	70-130				
Benzyl chloride	8.20		"	10.0		82.0	70-130				
Bromodichloromethane	11.2		"	10.0		112	70-130				
Bromoform	10.2		"	10.0		102	70-130				
Bromomethane	9.50		"	10.0		95.0	70-130				
Carbon disulfide	10.4		"	10.0		104	70-130				
Carbon tetrachloride	10.2		"	10.0		102	70-130				
Chlorobenzene	9.75		"	10.0		97.5	70-130				
Chloroethane	10.8		"	10.0		108	70-130				
Chloroform	10.2		"	10.0		102	70-130				
Chloromethane	8.45		"	10.0		84.5	70-130				
cis-1,2-Dichloroethylene	10.4		"	10.0		104	70-130				
cis-1,3-Dichloropropylene	11.4		"	10.0		114	70-130				
Cyclohexane	10.0		"	10.0		100	70-130				
Dibromochloromethane	10.6		"	10.0		106	70-130				
Dichlorodifluoromethane	11.2		"	10.0		112	70-130				
Ethyl acetate	12.6		"	10.0		126	70-130				
Ethyl Benzene	9.98		"	10.0		99.8	70-130				
Hexachlorobutadiene	10.1		"	10.0		101	70-130				
Isopropanol	9.72		"	10.0		97.2	70-130				
Methyl Methacrylate	11.1		"	10.0		111	70-130				
Methyl tert-butyl ether (MTBE)	9.88		"	10.0		98.8	70-130				
Methylene chloride	9.24		"	10.0		92.4	70-130				
n-Heptane	10.0		"	10.0		100	70-130				
n-Hexane	10.0		"	10.0		100	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00113 - EPA TO15 PREP											
LCS (BE00113-BS1) LCS								Prepared & Analyzed: 05/05/2020			
o-Xylene	10.1		ppbv	10.0		101	70-130				
p- & m- Xylenes	20.6		"	20.0		103	70-130				
p-Ethyltoluene	10.5		"	10.0		105	70-130				
Propylene	9.40		"	10.0		94.0	70-130				
Styrene	10.5		"	10.0		105	70-130				
Tetrachloroethylene	7.04		"	10.0		70.4	70-130				
Tetrahydrofuran	10.3		"	10.0		103	70-130				
Toluene	9.98		"	10.0		99.8	70-130				
trans-1,2-Dichloroethylene	10.6		"	10.0		106	70-130				
trans-1,3-Dichloropropylene	11.2		"	10.0		112	70-130				
Trichloroethylene	10.9		"	10.0		109	70-130				
Trichlorofluoromethane (Freon 11)	9.62		"	10.0		96.2	70-130				
Vinyl acetate	8.21		"	10.0		82.1	70-130				
Vinyl bromide	9.09		"	10.0		90.9	70-130				
Vinyl Chloride	8.28		"	10.0		82.8	70-130				
Surrogate: SURR: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*70-130*				

Sample and Data Qualifiers Relating to This Work Order

TO-LCS-L	The result reported for this compound may be biased low due to its behavior in the analysis batch LCS where it recovered less 70% of the expected value.
TO-CCV	The value reported is ESTIMATED for this compound due to its behavior during continuing calibration verification (>30% Difference from initial calibration).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
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Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 20E0004

YOUR Information	Report To:	Invoice To:
Company: Langan	Company:	Company:
Address: 360 west 31st Street, New York NY 10001	Address:	Address:
Phone: 212 479 5400	Phone.:	Phone.:
Contact: Kime Semon	Contact: Dino Palazzolo	Contact:
E-mail: Ksemon@langan.com	E-mail: DPalazzolo@langan.com	E-mail:

YOUR Project Number: 170610601

YOUR Project Name: 475 Bay Street

YOUR PO#:

Turn-Around Time: RUSH - Next Day; RUSH - Two Day; RUSH - Three Day; RUSH - Four Day; Standard (5-7 Day) (X)

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)
Deirdre Casey
Deirdre Casey

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil ¦ Other

Samples From: New York (X); New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections): Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB11_18-20	S	4/30 1450	VOC, SVOC, PCB, Pest, Herb, metals (+hex/tri/chromium & cyanide	
SOFB02_043020	S & QA/QC	4/30 1200	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	
MW06-043020	GW	4/30 1414	VOC SVOC PCB Pest Herb metals (+hex/tri/chromium cyanide	
MW08_043020	GW	4/30 1055	(filtered & unfiltered)	
MW05_043020	GW	4/30		
MWDUP01_043020	GW	4/30 —		
MWFB01_043020	QA/QC	4/30 1400		
TBLK01_043020	QA/QC	4/30 —		
SV04_043020	Air	4/30 1433	TO-15 (can ID - Y67; start time 1233 (-30 in Hg); end time 1433 (-5 in Hg)	
SV07_043020	Air	4/30 1430	TO-15 (can ID - 2396; start time 1230 (-31.5 in Hg); end time 1430 (-7.75 in Hg)	

Comments:

Preservation: (check all that apply) HCl (X) MeOH (X) HNO3 (X) H2SO4 ( ) NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction: Field Filtered (X) Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Deirdre Casey Langan	4/30 1740	C Shafer	4/30/20	C Shafer	4/30/20
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
				PGrace 4-30-20 1938	
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Temp. Received at Lab
					1.2

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave, Queens, NY 11418
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www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No.: 20E0004

YOUR Information	Report To:	Invoice To:
Company: Langan	Company:	Company: same
Address: 360 West 31st Street New York NY 10001	Address:	Address: same
Phone.: 212 479 5400	Phone.:	Phone.: same
Contact: Kim Semon	Contact: Dina Palazzolo	Contact: same
E-mail: KSemon@langan.com	E-mail: DPalazzolo@langan.com	E-mail: same

YOUR Project Number: 170161601

YOUR Project Name: 475 Bay Street

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day) ✓

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) Luke McCartney

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil ; Other

Samples From: New York ✓; New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections): Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
AA01_043020	air	4/30 1431	TO15	(Can ID 15528; Start 1235 (-28 inHg); Stop 1431 (-4.25 inHg)
SS08_043020	air	4/30 1713	TO15	(Can ID 16956; Start 0913 (-29.75"); Stop 1713 (-7.0 inHg)
SS09_043020	air	4/30 1712	TO15	(Can ID 18305; Start 0911 (-30); Stop 1712 (-6 inHg)
IA08_043020	air	4/30 1723	TO15	(Can ID 18302; Start 0923 (-31.5"); Stop 1723 (-7 inHg)
IA09_043020	air	4/30 1723	TO15	20316; Start 0923 (-29.9"); Stop 1723 (-8 inHg

Comments:

Preservation: (check all that apply) HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: _____

Special Instruction: Field Filtered ___ Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Luke McCartney Langan	4/30 1740	LANGAN 4/30 1740			4/30/20
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
	4/30/20				
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
					4-30-20 1738 @ 1.2 Degrees C

TABLES

Table 1
Sample Summary
Phase II Environmental Site Investigation Report

31-33 Wave Street
Staten Island, New York
Langan Project No. 170610601

No.	Sample Location	Sample ID	Sample Date/Time	Sample Collection Depth (feet bgs)	Sampling Rationale	Sample Analyses
SOIL						
1	SB04	SB04_0-2	4/29/2020	0 to 2	Upper 2 feet of historic fill	TCL / Part 375-list of VOCs & SVOCs, Part 375 PCBs, Pesticides, and Herbicides, TAL / Part 375 Metals including cyanide and hexavalent and trivalent chromium
2		SB04_10-12	4/29/2020	10 to 12	Five feet below the groundwater table	
3		SB04_14-16	4/29/2020	14 to 16	Evidence of greatest impacts - mild petroleum like odor	
4	SB05	SB05_0-2	4/28/2020	0 to 2	Upper 2 feet of historic fill	
5		SB05_6-8	4/28/2020	6 to 8	Groundwater interface	
6		SB05_18-20	4/28/2020	18 to 20	Boring termination depth	
7	SB06	SB06_0-2	4/29/2020	0 to 2	Upper 2 feet of historic fill	
8		SB06_5-7	4/29/2020	5 to 7	Evidence of greatest impacts	
9		SB06_12-14	4/29/2020	12 to 14	Clean interval below impacts	
10	SB07	SB07_0-2	4/29/2020	0 to 2	Upper 2 feet of historic fill	
11		SB07_8-10	4/29/2020	8 to 10	Five feet below the groundwater table	
12		SB07_18-20	4/29/2020	18 to 20	Boring termination depth	
13	SB08	SB08_0-2	4/28/2020	0 to 2	Upper 2 feet of historic fill	
14		SB08_4-6	4/28/2020	4 to 6	Groundwater interface	
15		SB08_13-15	7/28/2020	13 to 15	Boring termination depth	
16	SB09	SB09_0-2	4/28/2020	0 to 2	Upper 2 feet of historic fill	
17		SB09_4-6	4/28/2020	4 to 6	Groundwater interface	
18		SB09_13-15	4/28/2020	13 to 15	Boring termination depth	
Soil QA/QC						
N/A	SB04	SODUP01_042920	4/29/2020	0 to 2	Duplicate	TCL / Part 375-list of VOCs & SVOCs, Part 375 PCBs, Pesticides, and Herbicides, TAL / Part 375 Metals including cyanide and hexavalent and trivalent chromium
	N/A	SOFB01_042820	4/28/2020	N/A	Field Blank	
		SOFB02_043020	4/30/2020			
GROUNDWATER						
1	MW05	MW05_043020	4/30/2020	Center of water column	Groundwater	TCL VOCs, SVOCs, PCBs, Pesticides, and TAL Metals (total and dissolved [field filtered])
2	MW06	MW06_043020	4/30/2020			
3	MW08	MW08_043020	4/30/2020			

Table 1
Sample Summary
Phase II Environmental Site Investigation Report

31-33 Wave Street
Staten Island, New York
Langan Project No. 170610601

No.	Sample Location	Sample ID	Sample Date/Time	Sample Collection Depth (feet bgs)	Sampling Rationale	Sample Analyses
AIR						
1	SV04	SV04_043020	4/30/2020	3	Soil Vapor	TO-15 VOCs
2	SV07	SV07_043020	4/30/2020	2		
3	SS08	SS08_043020	4/30/2020	14 inches	Sub-slab	
4	SS09	SS09_043020	4/30/2020			
5	IA08	IA08_043020	4/30/2020	Breathing Height	Indoor Air (co-located with sub-slab)	
6	IA09	IA09_043020	4/30/2020			
GW and Air QA/QC						
NA	MW08	GWDUP01_043020	4/30/2020	N/A	Duplicate	TCL VOCs, SVOCs, PCBs, Pesticides, and TAL Metals (total and dissolved [field filtered])
	N/A	GWFB01_043020	4/30/2020		Field Blank	
		GWTB01_043020	4/30/2020		Trip Blank	Part 375 VOCs
		AA01_043020	4/30/2020		Ambient Air	TO-15 VOCs

Notes:
1. Sample depth intervals were determined in the field
2. Soil samples to be analyzed for New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Code Rules and Regulations (6 NYCRR) Part 375-list compounds
3. TBD = to be determined (in the field)
4. VOC = volatile organic compounc
5. SVOC = semivolatile organic compounc
6. PCB = polychlorinated biphenyl
7. N/A = Not Applicable
8. TCL = Target Compound List
9. TAL = Target Analyte List
10. QA/QC = quality assurance/quality contro
11. TO-15 = United States Environmental Protection Agency (USEPA) Method TO-15

Table 2
Soil Sample Analytical Results Summary
Phase II Environmental Site Investigation

31-33 Wave Street
Staten Island, New York
Langan Project No.: 170610601

Location Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	SB04 SB04_0-2 20D0818-01 4/29/2020 0-2		SB04 SODUP01_042920 20D0818-12 4/29/2020 0-2		SB04 SB04_14-16 20D0818-03 4/29/2020 14-16		SB04 SB04_18-20 20D0818-04 4/29/2020 18-20		SB05 SB05_0-2 20D0776-04 4/28/2020 0-2		SB05 SB05_6-8 20D0776-05 4/28/2020 6-8		SB05 SB05_18-20 20D0776-06 4/28/2020 18-20		SB06 SB06_0-2 20D0818-05 4/29/2020 0-2		SB06 SB06_5-7 20D0818-06 4/29/2020 5-7		SB06 SB06_12-14 20D0818-07 4/29/2020 12-14	
Volatile Organic Compounds (mg/kg)																						
Acetone	0.05	100	0.0051	U	0.0046	U	0.0057	J	0.033		0.0051	U	0.0067	J	0.009		0.0044	U	0.02		0.0039	U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0026	U	0.0023	U	0.0018	U	0.0043	U	0.0025	U	0.0024	U	0.0022	U	0.0022	U	0.0037	U	0.0019	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	~	~	0.0026	U	0.0023	U	0.0018	U	0.0043	U	0.0025	U	0.0024	U	0.0022	U	0.0022	U	0.0037	U	0.0019	U
Semivolatile Organic Compounds (mg/kg)																						
Acenaphthene	20	100	0.0451	U	0.0458	U	0.0465	U	0.0712	U	0.0443	U	0.0471	U	0.0472	U	0.0468	U	0.0518	U	0.0482	U
Acenaphthylene	100	100	0.0451	U	0.0458	U	0.0465	U	0.0712	U	0.0834	JD	0.0471	U	0.0472	U	0.0468	U	0.0518	U	0.0482	U
Anthracene	100	100	0.0451	U	0.0458	U	0.0465	U	0.0712	U	0.077	JD	0.0471	U	0.0472	U	0.0468	U	0.0518	U	0.0482	U
Benzo(a)Anthracene	1	1	0.152	D	0.113	D	0.0465	U	0.0712	U	0.55	D	0.0471	U	0.0472	U	0.112	D	0.0518	U	0.0482	U
Benzo(a)Pyrene	1	1	0.172	D	0.12	D	0.0465	U	0.0712	U	0.637	D	0.0471	U	0.0472	U	0.104	D	0.0518	U	0.0482	U
Benzo(b)Fluoranthene	1	1	0.166	D	0.134	D	0.0465	U	0.0712	U	0.635	D	0.0471	U	0.0472	U	0.0791	JD	0.0518	U	0.0482	U
Benzo(g,h,i)Perylene	100	100	0.147	D	0.105	D	0.0465	U	0.0712	U	0.512	D	0.0471	U	0.0472	U	0.0589	JD	0.0518	U	0.0482	U
Benzo(k)Fluoranthene	0.8	3.9	0.134	D	0.118	D	0.0465	U	0.0712	U	0.553	D	0.0471	U	0.0472	U	0.0843	JD	0.0518	U	0.0482	U
Benzyl Butyl Phthalate	~	~	0.161	D	0.0789	JD	0.0465	U	0.0712	U	0.142	D	0.0471	U	0.0472	U	0.0468	U	0.0518	U	0.0482	U
Bis(2-Ethylhexyl) Phthalate	~	~	0.0841	JD	0.0458	U	0.0465	U	0.0712	U	0.0445	JD	0.0471	U	0.0472	U	0.0468	U	0.0518	U	0.0482	U
Carbazole	~	~	0.0451	U	0.0458	U	0.0465	U	0.0712	U	0.0443	U	0.0471	U	0.0472	U	0.0468	U	0.0518	U	0.0482	U
Chrysene	1	3.9	0.16	D	0.132	D	0.0465	U	0.0712	U	0.765	D	0.0471	U	0.0472	U	0.0984	D	0.0518	U	0.0482	U
Dibenz(a,h)Anthracene	0.33	0.33	0.0451	U	0.0458	U	0.0465	U	0.0712	U	0.121	D	0.0471	U	0.0472	U	0.0468	U	0.0518	U	0.0482	U
Fluoranthene	100	100	0.298	D	0.257	D	0.0465	U	0.0712	U	0.974	D	0.0471	U	0.0472	U	0.166	D	0.0518	U	0.0482	U
Fluorene	30	100	0.0451	U	0.0458	U	0.0465	U	0.0712	U	0.0443	U	0.0471	U	0.0472	U	0.0468	U	0.0518	U	0.0482	U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.139	D	0.101	D	0.0465	U	0.0712	U	**0.559**	D	0.0471	U	0.0472	U	0.0679	JD	0.0518	U	0.0482	U
Phenanthrene	100	100	0.119	D	0.138	D	0.0465	U	0.0712	U	0.278	D	0.0471	U	0.0472	U	0.0468	U	0.0518	U	0.0482	U
Pyrene	100	100	0.248	D	0.205	D	0.0465	U	0.0712	U	1.03	D	0.0471	U	0.0472	U	0.151	D	0.0518	U	0.0482	U
Pesticides (mg/kg)																						
4,4'-DDE	0.0033	8.9	0.00179	U	0.00178	U	0.00182	U	0.00281	U	0.00175	U	0.00189	U	0.00186	U	0.00183	U	0.00204	U	0.00186	U
4,4'-DDT	0.0033	7.9	**0.0073**	D	**0.0099**	D	0.00182	U	0.00281	U	**0.00426**	DP	0.00189	U	0.00186	U	0.00183	U	0.00204	U	0.00186	U
Alpha Chlordane	0.094	4.2	0.00179	U	0.00178	U	0.00182	U	0.00281	U	0.00175	U	0.00189	U	0.00186	U	0.00183	U	0.00204	U	0.00186	U
Chlordane (alpha and gamma)	~	~	0.0358	U	0.0356	U	0.0363	U	0.0562	U	0.035	U	0.0377	U	0.0371	U	0.0366	U	0.0408	U	0.0372	U
Gamma-Chlordane	~	~	0.00179	U	0.00178	U	0.00182	U	0.00281	U	0.00175	U	0.00189	U	0.00186	U	0.00183	U	0.00204	U	0.00186	U
Herbicides (mg/kg)	~	~	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Polychlorinated Biphenyls (mg/kg)																						
PCB-1260 (Aroclor 1260)	~	~	0.0181	U	0.018	U	0.0183	U	0.0284	U	0.0177	U	0.019	U	0.0187	U	0.0185	U	0.0206	U	0.0188	U
Total PCBs	0.1	1	0.0181	U	0.018	U	0.0183	U	0.0284	U	0.0177	U	0.019	U	0.0187	U	0.0185	U	0.0206	U	0.0188	U
Inorganics (mg/kg)																						
Aluminum	~	~	2,370		2,580		4,900		13,800		4,430		3,670		5,060		5,720		7,940		6,560	
Arsenic	13	16	2.97		3.28		1.68	U	6.15		6.02		1.73	U	1.7	U	1.68	U	7.02		1.74	U
Barium	350	400	124		33.6		30.4		37.8		207		33.8		32		46		69.1		39	
Cadmium	2.5	4.3	0.713		0.774		0.336	U	0.514	U	0.705		0.345	U	0.34	U	0.337	U	0.373	U	0.348	U
Calcium	~	~	40,100		40,100		945		2,290		15,100		1,230		1,190		25,900		4,820		1,030	
Chromium, Hexavalent	1	110	0.545	U	0.555	U	0.56	U	0.857	U	0.535	U	0.575	U	0.566	U	0.561	U	0.622	U	0.581	U
Chromium, Total	~	~	7.43		6.35		18.4		36.6		21.7		17.5		22		11.7		27.1		24.2	
Chromium, Trivalent	30	180	7.43		6.35		18.4		**36.6**		21.7		17.5		22		11.7		27.1		24.2	
Cobalt	~	~	2.71		2.93		8.3		13.9		7.71		8.57		8.63		5.13		17.7		12.9	
Copper	50	270	21.1		28.2		20		12.8		**60**		18.3		18.5		13.4		31.9		22.4	
Iron	~	~	5,860		7,350		11,000		23,200		15,600		11,400		12,300		8,810		24,100		13,400	
Lead	63	400	**234**		**238**		6.55		17.8		**387**		60.2		7.04		**89.9**		**274**		7.43	
Magnesium	~	~	21,800		21,700		2,850		6,460		8,280		2,750		3,700		9,190		6,660		3,240	
Manganese	1,600	2,000	100		97.9		121		255		153		120		210		101		202		231	
Mercury	0.18	0.81	**0.268**		**0.264**		0.0336	U	0.0514	U	**1.33**		**0.653**		0.034	U	0.0337	U	0.0479		0.0348	U
Nickel	30	310	23.9		24.7		**94.6**		**86.2**		**74.5**		**84.3**		**109**		29.4		**133**		**128**	
Potassium	~	~	308		279		928		1,790		686		709		887		848		747		882	
Selenium	3.9	180	**12.6**		**10.2**		2.8	U	*4.28*	U	2.68	U	2.88	U	2.83	U	2.81	U	3.11	U	2.9	U
Silver	2	180	0.545	U	0.555	U	0.56	U	0.857	U	0.535	U	0.575	U	0.566	U	1.72		0.622	U	0.581	U
Sodium	~	~	93.4		146		88.7		171		279		109		86.7		95.9		127		127	
Vanadium	~	~	13.7		15.6		17.1		36		23.6		19.1		18.4		15.1		29.2		20.5	
Zinc	109	10,000	**136**		100		22.9		51.2		**274**		84.4		21.4		50.2		62.8		23.8	
General Chemistry (%)																						
Solids, Percent	~	~	91.8		90.1		89.3		58.3		93.4		86.9		88.4		89.1		80.4		86.1	

Notes provided on Page 3.
Concentrations above Unrestricted Use SCOs are bolded.
Concentrations above Restricted Use Restricted-Residential SCOs are shaded.

Table 2
Soil Sample Analytical Results Summary
Phase II Environmental Site Investigation

31-33 Wave Street
Staten Island, New York
Langan Project No.: 170610601

Location	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	SB07		SB07		SB07		SB08		SB08		SB08		SB09		SB09		SB09	
Sample ID			SB07_0-2		SB07_8-10		SB07_18-20		SB08_0-2		SB08_4-6		SB08_13-15		SB09_0-2		SB09_4-6		SB09_13-15	
Laboratory ID			20D0818-09		20D0818-10		20D0818-11		20D0776-07		20D0776-08		20D0776-09		20D0776-01		20D0776-02		20D0776-03	
Sample Date			4/29/2020		4/29/2020		4/29/2020		4/28/2020		4/28/2020		4/28/2020		4/28/2020		4/28/2020		4/28/2020	
Sample Depth (feet bgs)			0-2		8-10		18-20		0-2		4-6		13-15		0-2		4-6		13-15	
Volatile Organic Compounds (mg/kg)																				
Acetone	0.05	100	0.0044	U	0.0047	J	0.0067	J	0.01	J	0.005	U	0.0054	U	0.0046	U	0.0037	U	0.03	
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.0022	U	0.0021	U	0.0024	U	0.0027	U	0.0025	U	0.0027	U	0.0023	U	0.0018	U	0.0086	
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	~	~	0.0022	U	0.0021	U	0.0024	U	0.0027	U	0.0025	U	0.0027	U	0.0023	U	0.0018	U	0.0024	U
Semivolatile Organic Compounds (mg/kg)																				
Acenaphthene	20	100	0.0459	U	0.0477	U	0.0535	U	0.0439	U	0.0461	U	0.0601	U	0.044	U	0.0441	U	0.0469	U
Acenaphthylene	100	100	0.0459	U	0.0477	U	0.0535	U	0.0439	U	0.0461	U	0.0601	U	0.044	U	0.0441	U	0.0469	U
Anthracene	100	100	0.0459	U	0.0477	U	0.0535	U	0.0701	JD	0.0461	U	0.0601	U	0.044	U	0.0441	U	0.0469	U
Benzo(a)Anthracene	1	1	0.0459	U	0.0477	U	0.0535	U	0.249	D	0.0537	JD	0.321	D	0.0773	JD	0.0441	U	0.0469	U
Benzo(a)Pyrene	1	1	0.0549	JD	0.0477	U	0.0535	U	0.264	D	0.0581	JD	0.322	D	0.0906	D	0.0441	U	0.0469	U
Benzo(b)Fluoranthene	1	1	0.0459	U	0.0477	U	0.0535	U	0.201	D	0.0478	JD	0.326	D	0.0794	JD	0.0441	U	0.0469	U
Benzo(g,h,i)Perylene	100	100	0.0475	JD	0.0477	U	0.0535	U	0.162	D	0.0461	U	0.226	D	0.0604	JD	0.0441	U	0.0469	U
Benzo(k)Fluoranthene	0.8	3.9	0.0483	JD	0.0477	U	0.0535	U	0.186	D	0.0461	U	0.257	D	0.0625	JD	0.0441	U	0.0469	U
Benzyl Butyl Phthalate	~	~	0.169	D	0.0477	U	0.0535	U	0.0439	U	0.0461	U	0.0601	U	0.044	U	0.0441	U	0.0469	U
Bis(2-Ethylhexyl) Phthalate	~	~	0.0658	JD	0.0477	U	0.0535	U	0.24	D	0.0461	U	0.0601	U	0.044	U	0.0441	U	0.0469	U
Carbazole	~	~	0.0459	U	0.0477	U	0.0535	U	0.0439	U	0.0461	U	0.0601	U	0.044	U	0.0441	U	0.0469	U
Chrysene	1	3.9	0.0483	JD	0.0477	U	0.0535	U	0.222	D	0.05	JD	0.305	D	0.0843	JD	0.0441	U	0.0469	U
Dibenz(a,h)Anthracene	0.33	0.33	0.0459	U	0.0477	U	0.0535	U	0.0439	U	0.0461	U	0.0662	JD	0.044	U	0.0441	U	0.0469	U
Fluoranthene	100	100	0.0614	JD	0.0477	U	0.0535	U	0.522	D	0.0758	JD	0.585	D	0.162	D	0.0457	JD	0.0469	U
Fluorene	30	100	0.0459	U	0.0477	U	0.0535	U	0.0439	U	0.0461	U	0.0601	U	0.044	U	0.0441	U	0.0469	U
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.0459	U	0.0477	U	0.0535	U	0.189	D	0.0461	U	0.202	D	0.0667	JD	0.0441	U	0.0469	U
Phenanthrene	100	100	0.0459	U	0.0477	U	0.0535	U	0.283	D	0.0461	U	0.244	D	0.0878	JD	0.0441	U	0.0469	U
Pyrene	100	100	0.0556	JD	0.0477	U	0.0535	U	0.457	D	0.0728	JD	0.494	D	0.139	D	0.0441	U	0.0469	U
Pesticides (mg/kg)																				
4,4'-DDE	0.0033	8.9	0.0018	U	0.00185	U	0.00211	U	0.00172	U	0.00183	U	0.00236	U	0.00173	U	0.00175	U	0.00187	U
4,4'-DDT	0.0033	7.9	0.0018	U	0.00185	U	0.00211	U	0.00172	U	0.00183	U	0.00236	U	0.00173	U	0.00175	U	0.00187	U
Alpha Chlordane	0.094	4.2	0.0018	U	0.00185	U	0.00211	U	0.00172	U	0.00183	U	0.00236	U	0.00173	U	0.00175	U	0.00187	U
Chlordane (alpha and gamma)	~	~	0.036	U	0.0369	U	0.0421	U	0.0343	U	0.0365	U	0.0471	U	0.0347	U	0.0351	U	0.0374	U
Gamma-Chlordane	~	~	0.0018	U	0.00185	U	0.00211	U	0.00172	U	0.00183	U	0.00236	U	0.00173	U	0.00175	U	0.00187	U
Herbicides (mg/kg)	~	~	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Polychlorinated Biphenyls (mg/kg)																				
PCB-1260 (Aroclor 1260)	~	~	0.0182	U	0.0186	U	0.0213	U	0.0173	U	0.0184	U	0.0238	U	0.0175	U	0.0177	U	0.0189	U
Total PCBs	0.1	1	0.0182	U	0.0186	U	0.0213	U	0.0173	U	0.0184	U	0.0238	U	0.0175	U	0.0177	U	0.0189	U
Inorganics (mg/kg)																				
Aluminum	~	~	3,740		5,660		10,000		7,770		4,070		3,910		6,170		4,400		6,110	
Arsenic	13	16	2.83		2.11		2.13		2.99		4.44		4.9		1.59	U	1.6	U	1.72	U
Barium	350	400	32.7		34.2		24.6		90.2		106		**442**		35.7		33.6		37.7	
Cadmium	2.5	4.3	0.348		0.346	U	0.388	U	0.316	U	0.334	U	0.433	U	0.317	U	0.321	U	0.345	U
Calcium	~	~	26,100		924		584		19,600		33,600		29,400		1,830		2,060		2,040	
Chromium, Hexavalent	1	110	0.55	U	0.576	U	0.647	U	0.527	U	0.557	U	0.722	U	0.529	U	0.535	U	0.574	U
Chromium, Total	~	~	7.68		24.2		24.2		31		33.6		20		17.4		15.2		39.5	
Chromium, Trivalent	30	180	7.68		24.2		24.2		**31**		**33.6**		20		17.4		15.2		**39.5**	
Cobalt	~	~	4.95		10.5		12.8		12.8		16.6		8.18		8.92		7.21		14.7	
Copper	50	270	20.6		26.3		16.5		48.1		28.8		26.5		20		21.9		19.4	
Iron	~	~	9,200		14,300		15,100		14,900		14,200		10,700		12,600		11,600		15,000	
Lead	63	400	**100**		6.88		8.63		**296**		**441**		**2,080**		13.8		29.1		**66**	
Magnesium	~	~	13,900		6,640		5,150		11,300		22,100		8,090		3,760		3,930		6,890	
Manganese	1,600	2,000	126		269		125		245		247		217		265		200		286	
Mercury	0.18	0.81	0.143		0.0346	U	0.0388	U	**0.771**		**1.28**		**0.54**		0.032		**0.226**		0.0827	
Nickel	30	310	17.7		**155**		**86.2**		**154**		**325**		**114**		**71.3**		**69.9**		**209**	
Potassium	~	~	393		829		916		1,020		856		765		907		872		745	
Selenium	3.9	180	**5.01**		2.88	U	3.23	U	2.64	U	**4.08**		3.61	U	2.64	U	2.67	U	2.87	U
Silver	2	180	0.55	U	0.576	U	0.647	U	0.527	U	0.557	U	0.722	U	0.529	U	0.535	U	0.574	U
Sodium	~	~	222		72		92.8		768		205		205		175		169		139	
Vanadium	~	~	20.3		18.6		22.1		26		14.5		18.1		17.6		17.9		22.1	
Zinc	109	10,000	**283**		24.8		39.9		**123**		**226**		**291**		28.4		30.1		24.2	
General Chemistry (%)																				
Solids, Percent	~	~	90.8		86.8		77.3		94.8		89.7		69.3		94.6		93.5		87	

Notes provided on Page 3.
Concentrations above Unrestricted Use SCOs are bolded.
Concentrations above Restricted Use Restricted-Residential SCOs are shaded.

Table 2
Soil Sample Analytical Results Summary
Phase II Environmental Site Investigation

31-33 Wave Street
Staten Island, New York
Langan Project No.: 170610601

Notes:

1. Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Unrestricted Use and Restricted Use Restricted-Residential Soil Cleanup Objectives (SCO).
2. Only detected analytes are shown in the table.
3. Detected analytical results above Unrestricted Use SCOs are bolded.
4. Detected analytical results above Restricted Use Restricted-Residential SCOs are shaded.
5. Analytical results with reporting limits (RL) above the lowest applicable criteria are italicized.
6. Sample SODUP01_042920 is a duplicate sample of SB04_0-2.
7. ~ = Regulatory limit for this analyte does not exist
8. bgs = below grade surface
9. mg/kg = milligrams per kilogram
10. % = percent
11. ND = Not detected

Qualifiers:

D = The concentration reported is a result of a diluted sample.
J = The analyte was detected above the Method Detection Limit (MDL), but below the RL; therefore, the result is an estimated concentration.
P = The relative percent difference (RPD) between the results for the two columns exceeds the method-specified criteria.
U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
B = The analyte was found in the associated analysis batch blank.

Table 3
Groundwater Sample Analytical Results Summary
Phase II Environmental Site Investigation

31-33 Wave Street
Staten Island, New York
Langan Project No.: 170610601

Location Sample ID Laboratory ID Sample Date	NYSDEC SGVs	MW05 MW05_043020 20D0850-13 4/30/2020		MW06 MW06_043020 20D0850-11 4/30/2020		MW08 MW08_043020 20D0850-12 4/30/2020		MW08 GWDUP01_043020 20D0850-14 4/30/2020	
Volatile Organic Compounds (µg/L)									
Acetone	50	1.01	J	3.86		1	U	1	U
Chloroform	7	0.2	U	0.2	U	0.57		0.58	
Methyl Ethyl Ketone (2-Butanone)	50	0.2	U	1.63		0.2	U	0.2	U
Tert-Butyl Methyl Ether	10	1.23		1.24		0.2	U	0.2	U
Tetrachloroethene (PCE)	5	0.2	U	0.2	U	0.51		0.46	J
Semivolatile Organic Compounds (µg/L)									
Bis(2-Ethylhexyl) Phthalate	5	0.541	U	1.27		0.541	U	0.541	U
Pesticides (µg/L)	~	ND		ND		ND		ND	
Herbicides (µg/L)	~	ND		ND		ND		ND	
Polychlorinated Biphenyls (µg/L)	~	ND		ND		ND		ND	
Inorganics (µg/L)									
Aluminum	~	270		55.6	U	3,250		99.6	
Antimony	3	1.11	U	1.11	U	1.63		1.66	
Antimony (Dissolved)	3	1.11	U	1.11	U	1.57		1.51	
Arsenic	25	12.5		1.68		22.2		21.1	
Arsenic (Dissolved)	25	11.7		1.71		20.7		20.2	
Barium	1,000	343		198		136		87.9	
Barium (Dissolved)	1,000	307		194		83.6		82.6	
Calcium	~	146,000		102,000		76,600		68,600	
Calcium (Dissolved)	~	138,000		99,100		65,100		64,400	
Chromium, Total	50	5.56	U	5.56	U	13.6		5.56	U
Chromium, Trivalent	~	10	U	10	U	13.6		10	U
Cobalt	~	4.73		4.44	U	4.44	U	4.44	U
Iron	300	**6,770**		**11,400**		**4,940**		278	U
Iron (Dissolved)	300	**5,510**		**11,000**		278	U	278	U
Lead	25	5.56	U	5.56	U	**184**		19.1	
Lead (Dissolved)	25	5.56	U	5.56	U	6.88		5.56	U
Magnesium	35,000	34,500		19,200		15,500		12,900	
Magnesium (Dissolved)	35,000	31,700		18,500		12,500		12,300	
Manganese	300	**2,900**		**1,730**		151		5.63	
Manganese (Dissolved)	300	**2,700**		**1,700**		36.3		40.9	
Mercury (Dissolved)	0.7	0.2	U	0.2	U	0.2844		0.2	U
Nickel	100	11.1	U	11.1	U	69.7		11.1	U
Nickel (Dissolved)	100	11.1	U	11.1	U	12.1		12.3	
Potassium	~	14,700		9,530		12,300		11,500	
Potassium (Dissolved)	~	14,400	B	9,480	B	11,800	B	11,800	B
Selenium	10	1.11	U	1.11	U	2.72		1.77	
Selenium (Dissolved)	10	1.12		1.11	U	2.6		2.48	
Sodium	20,000	**96,000**		**48,400**		**55,800**		**55,800**	
Sodium (Dissolved)	20,000	**90,900**		**47,800**		**54,200**		**54,600**	
Zinc	2,000	29.3		27.8	U	144		93.8	
Zinc (Dissolved)	2,000	27.8	U	27.8	U	50		52.1	

Notes:
1. Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water (herein collectively referenced as "NYSDEC SGVs").
2. Only detected analytes are shown in the table.
3. Detected analytical results above NYSDEC SGVs are bolded and shaded.
4. Analytical results with reporting limits (RL) above NYSDEC SGVs are italicized.
5. Sample GWDUP01_043020 is a duplicate sample of MW08_043020.
6. ~ = Regulatory limit for this analyte does not exist
7. ug/l = micrograms per liter
8. ND = Not detected

Qualifiers:
J = The analyte was detected above the Method Detection Limit (MDL), but below the RL; therefore, the result is an estimated concentration.
U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
B = The analyte was found in the associated analysis batch blank.

Table 4
Soil Vapor Sample Analytical Results Summary
Phase II Environmental Site Investigation

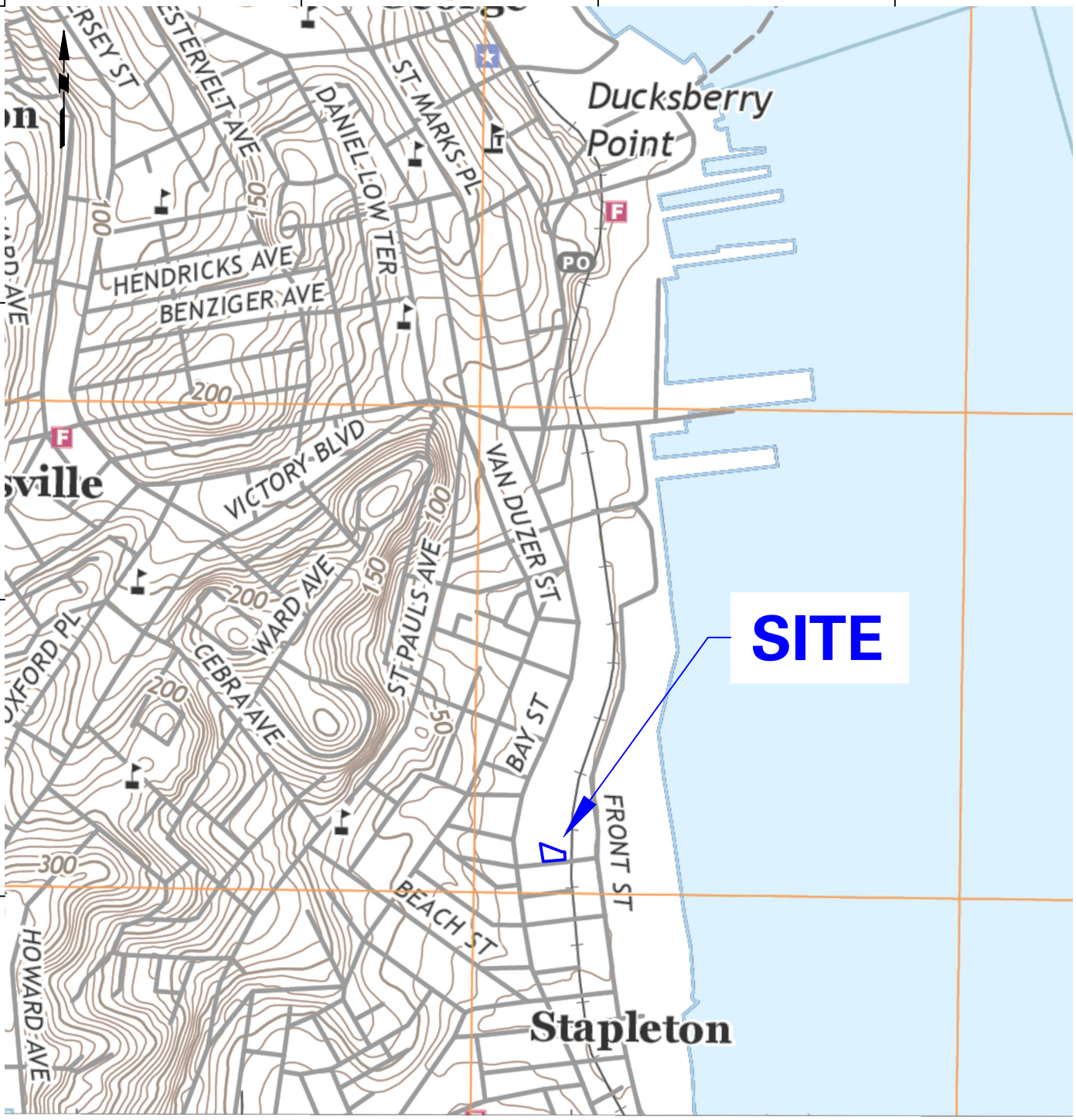
31-33 Wave Street
Staten Island, New York
Langan Project No.: 170610601

Location		AA01		IA08		SS08		IA09		SS09		SV04		SV07	
Sample ID	NYSDOH Decision	AA01_043020		IA08_043020		SS08_043020		IA09_043020		SS09_043020		SV04_043020		SV07_043020	
Laboratory ID	Matrices Minimum	20E0004-03		20E0004-06		20E0004-04		20E0004-07		20E0004-05		20E0004-01		20E0004-02	
Sample Date	Concentrations	4/30/2020		4/30/2020		4/30/2020		4/30/2020		4/30/2020		4/30/2020		4/30/2020	
Sample Type		AA		IA		SSV		IA		SSV		SV		SV	
Volatile Organic Compounds (µg/m³)															
1,2,4-Trimethylbenzene	~	0.39	U	0.55	D	9.9	D	0.47	U	17	D	20	D	28	D
1,3,5-Trimethylbenzene (Mesitylene)	~	0.39	U	0.4	U	2.6	D	0.47	U	3.8	D	8	D	12	D
1,3-Butadiene	~	0.53	U	0.53	U	1.1	U	0.63	U	1.1	U	1.1	U	1.1	D
2-Hexanone	~	0.66	U	0.66	U	1.4	U	0.78	U	1.4	U	3.5	D	2.9	D
4-Ethyltoluene	~	0.39	U	0.4	U	13	D	0.47	U	22	D	11	D	14	D
Acetone	~	6.6	D	8.4	D	6.7	D	4.2	D	4.8	D	54	D	29	D
Benzene	~	0.41	D	0.28	D	3.1	D	0.3	D	2.4	D	2.1	D	9.9	D
Carbon Disulfide	~	0.25	U	0.25	U	1.2	D	0.3	U	4.2	D	4	D	13	D
Carbon Tetrachloride	6	0.5	D	0.51	D	0.42	D	0.48	D	0.26	U	0.4	D	0.25	U
Chloroethane	~	0.21	U	0.21	U	0.44	U	0.25	U	0.44	U	0.42	U	1.1	D
Chloroform	~	0.39	U	0.39	U	9.9	D	0.47	U	0.99	D	5	D	4.2	D
Chloromethane	~	1.2	D	1	D	0.35	U	1.1	D	0.35	U	0.79	D	0.33	U
Cyclohexane	~	0.28	U	0.28	U	1.3	D	0.33	U	3.2	D	1.5	D	7.8	D
Dichlorodifluoromethane	~	1.6	D	1.9	D	2.3	D	1.9	D	2.6	D	2.5	D	2.2	D
Ethylbenzene	~	0.38	D	0.52	D	14	D	0.5	D	19	D	3	D	2.7	D
Isopropanol	~	26	D	9.8	D	4.8	D	1.6	D	4.9	D	29	D	2.3	D
M,P-Xylene	~	1.1	D	1.9	D	55	D	1.6	D	76	D	13	D	12	D
Methyl Ethyl Ketone (2-Butanone)	~	1	D	0.76	D	1.2	D	0.79	D	1.1	D	11	D	8.9	D
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	~	0.33	U	0.33	U	0.69	U	0.39	U	0.69	U	0.65	U	0.79	D
Methyl Methacrylate	~	6.1	D	0.4	D	0.69	U	0.39	U	0.69	U	15	D	0.66	U
Methylene Chloride	100	1.5	D	0.56	U	1.2	U	0.66	U	1.2	U	1.1	U	1.1	U
n-Heptane	~	0.33	U	0.36	D	6.1	D	0.39	U	16	D	8.8	D	11	D
n-Hexane	~	0.42	D	0.28	U	5.8	D	0.34	U	6.5	D	3.5	D	22	D
o-Xylene (1,2-Dimethylbenzene)	~	0.38	D	0.63	D	13	D	0.54	D	19	D	6.8	D	6.8	D
Styrene	~	0.34	D	0.34	U	1.6	D	0.41	U	2.2	D	0.68	U	0.68	U
Tert-Butyl Methyl Ether	~	0.29	U	0.29	U	0.61	U	0.34	U	10	D	0.57	U	0.58	U
Tetrachloroethene (PCE)	100	0.54	U	0.55	U	35	D	0.65	U	20	D	13	D	13	D
Toluene	~	2.2	D	4.7	D	55	D	2.7	D	50	D	8.5	D	13	D
Trichlorofluoromethane	~	1.4	D	1.3	D	1.3	D	1.3	D	1.1	D	1.7	D	2.1	D
Total VOCs	~	51.1		33		243		17		287		226		220	

Notes:
1. Co-located sub-slab vapor and indoor air sample analytical results are evaluated using the New York State Department of Health (NYSDOH) October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York Decision Matrices for Sub-Slab Vapor and Indoor Air and subsequent updates (2017) and soil vapor sample analytical results are compared to the minimum soil vapor concentrations recommending mitigation as set forth in the NYSDOH Decision Matrices.
2. Ambient air sample analytical results are shown for reference only.
3. Only detected analytes are shown in the table.
4. No analytical results are detected above the NYSDOH Decision Matrices.
5. No analytical results are detected above the minimum soil vapor concentrations recommending mitigation.
6. ~ = Regulatory limit for this analyte does not exist
7.ug/m3 = Micrograms per cubic meter
8. AA = Ambient air
9. IA = Indoor air
10. SSV = Sub-slab vapor
11. SV = Soil Vapor
12. VOCs = Volatile Organic Compounds

Qualifiers:
D = The concentration reported is a result of a diluted sample.
U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL (Reporting Limit); the value shown in the table is the RL.

FIGURES



NOTES:

1. BASE MAP IS REFERENCED FROM UNITED STATES GEOLOGICAL SURVEY (USGS) 7.5-MINUTE SERIES TOPOGRAPHICAL MAPS, JERSEY CITY QUADRANGLE, DATED 2016.

1000 0 500 1000
SCALE IN FEET

LANGAN
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.
Langan Engineering and Environmental Services, Inc.
Langan International LLC
Collectively known as Langan

Project
31-33 WAVE STREET
BLOCK No. 488, LOT Nos. 157, 162, & 164
STATEN ISLAND
RICHMOND COUNTY NEW YORK

Figure Title
SITE LOCATION MAP

Project No. 170610601	Figure No. 1
Date 02/03/2020	
Scale 1" = 1000'	
Drawn By KG / Checked By	
Submission Date	Sheet 1 of 2

© 2017 Langan

Filename: \\langan.com\data\NYC\data6\170610601\Project Data\CAD\01\SheetFiles\Environmental\Phase II\Figure 1 - Site Location Map.dwg Date: 5/5/2020 Time: 15:07 User: dpalazzolo Style Table: Langan.stb Layout: Site Location Map



LEGEND:

- APPROXIMATE SITE BOUNDARY
- SB01/MW01 — APPROXIMATE SOIL BORING AND MONITORING WELL LOCATION
- SB01/SV01 — APPROXIMATE SOIL BORING AND SOIL VAPOR SAMPLE LOCATION
- SB01/SS01/IA01 — APPROXIMATE SOIL BORING, SUB-SLAB, AND INDOOR AIR SAMPLE LOCATION
- AA01 — APPROXIMATE AMBIENT AIR SAMPLE LOCATION
- SB01/MW01/SS01/IA01 — APPROXIMATE SOIL BORING, MONITORING WELL, SUB-SLAB, AND INDOOR AIR SAMPLE LOCATION

GENERAL NOTES:

1. BASEMAP TAKEN FROM LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY, D.P.C. NEARMAP WEB PORTAL, ACCESSED ON JANUARY 29, 2020.
2. BORING LOCATIONS ARE APPROXIMATE AND ARE MEASURED OFF OF EXISTING STRUCTURES

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

50 0 25 50
SCALE IN FEET

LANGAN
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T: 212.479.5400 F: 212.479.5444 www.langan.com

Project	31-33 WAVE STREET BLOCK No. 488, LOTS No. 157, 162, 164 STATEN ISLAND RICHMOND COUNTY NEW YORK
Figure Title	BORING LOCATION MAP
Project No.	170610601
Date	05/12/2020
Drawn By	EMS
Checked By	DP
Figure	2
Sheet	2 of 2

© 2019 Langan

Filename: \\langan.com\data\NYC\data6\170610601\Project Data\CAD\01\SheetFiles\Environmental\Phase II\Figure 2 - Boring Location Plan_as built.dwg Date: 5/15/2020 Time: 10:41 User: eburgess Style Table: Langan.stb Layout: ANSIB-BL (1)

APPENDIX A
SITE PHOTOGRAPHS

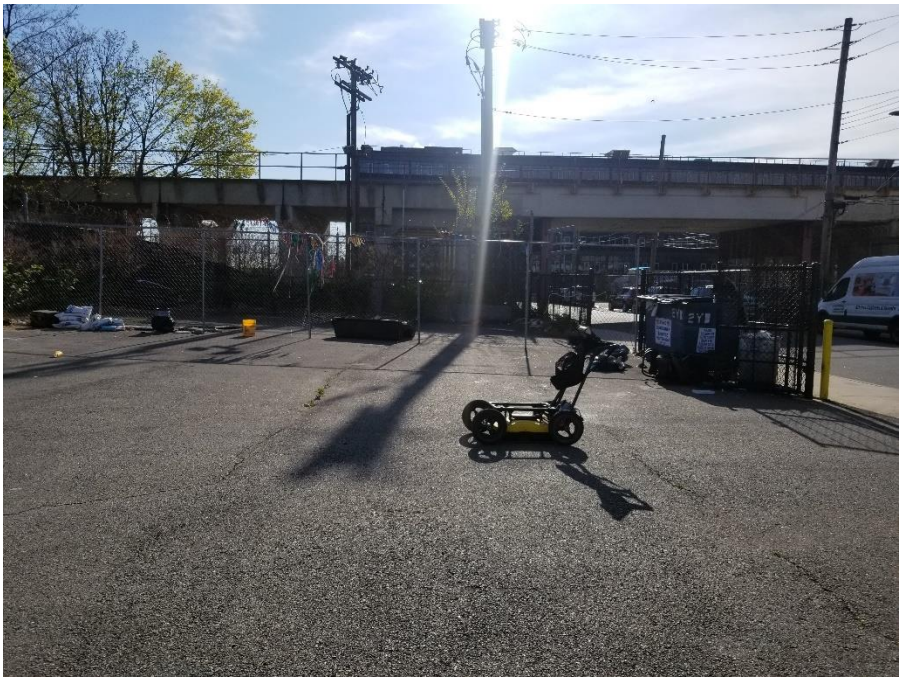


Photo 1: View of NOVA Geophysical surveying the site with ground penetrating radar (GPR). (facing east)

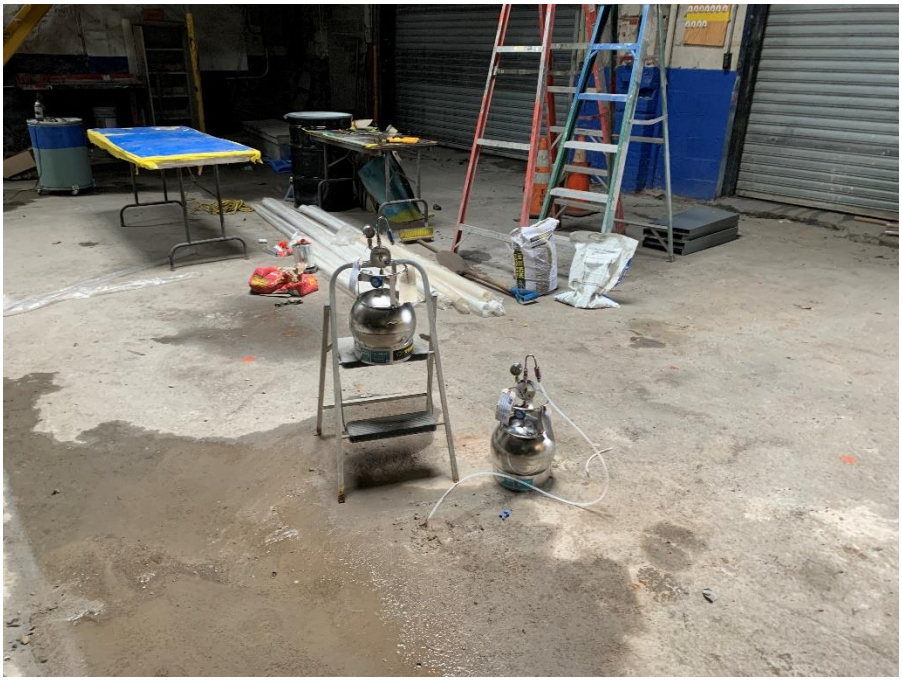


Photo 2: View of sub-slab vapor sample collection in the vacant repair shop.



Photo 3: View of soil from soil boring SB05.



Photo 4: View of soil from soil boring SB07.



Photo 4: View of Langan collecting a groundwater sample from monitoring well MW05.



Photo 5: View of AARCO drilling soil boring SB11 (facing southwest)



Photo 6: View of AARCO installing a soil vapor point SV11.

APPENDIX B
GEOPHYSICAL SURVEY REPORT

GEOPHYSICAL ENGINEERING SURVEY REPORT

Commercial Property
475 Bay Street,
Staten Island, New York 10304

NOVA PROJECT NUMBER:
20-1735

DATED:
May 6, 2020

PREPARED FOR:

LANGAN

21 Penn Plaza
360 West 31st Street, 8th Floor
New York, New York 10001-2727

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

May 6, 2020

Dina Palazzolo
Senior Staff Scientist
LANGAN
21 Penn Plaza
360 West 31st Street, 8th Floor
New York, New York 10001-2727
P: 212.479.5499 x5618 | E: dapalazzolo@langan.com

Re: Geophysical Engineering Survey (GES) Report
Commercial Property
475 Bay Street,
Staten Island, New York 10304

Dear Ms. Palazzolo,

Nova Geophysical Services (NOVA) is pleased to provide the findings of the geophysical engineering survey (GES) at the above referenced project site: 475 Bay Street, Staten Island, New York 10304 (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 on April 28th, 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 transduce 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

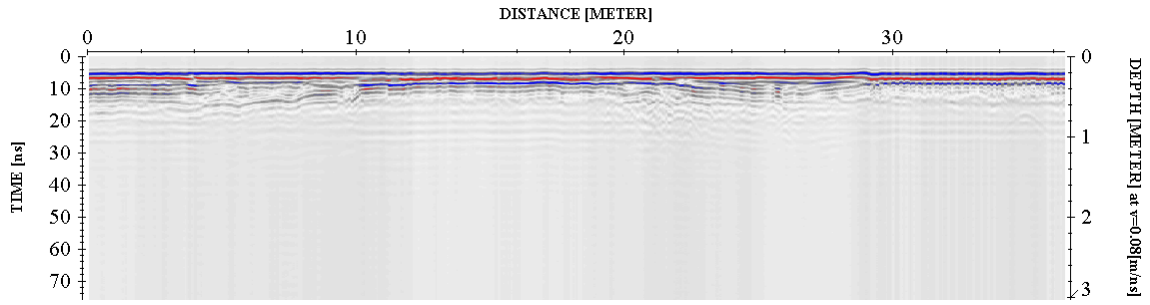
The project site was screened using GPR to search the specified area and inspected for reflections, which could be indicative of substructures and utilities within the subsurface. An EM utility locator was used to help determine the locations of utilities within the survey area.

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.

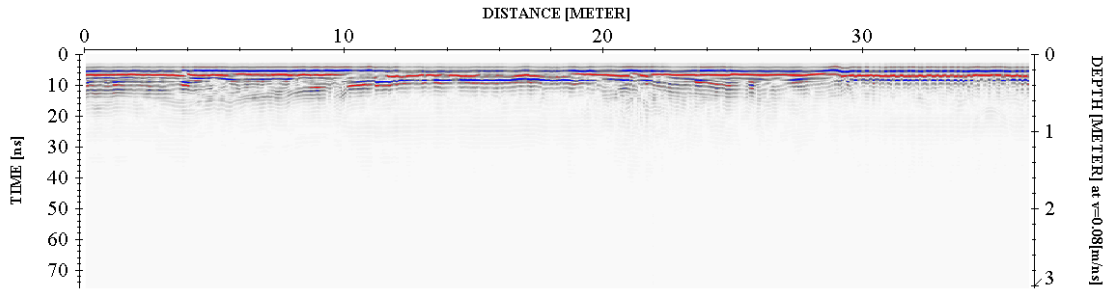
DATA PROCESSING

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.

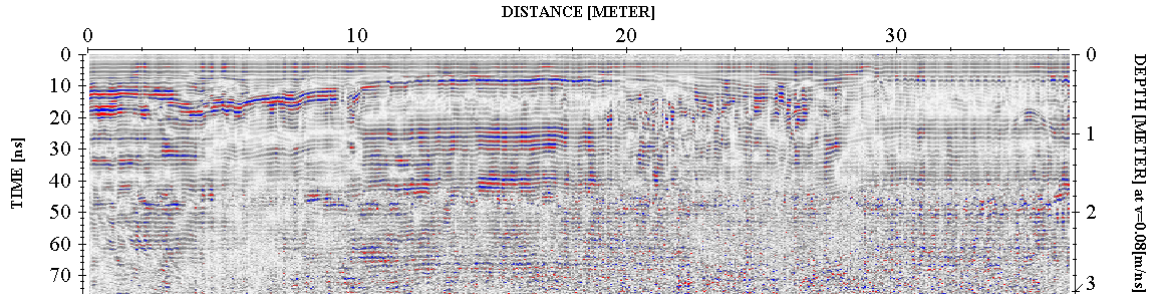
Step 1. Import Raw RAMAC data to standard processing format



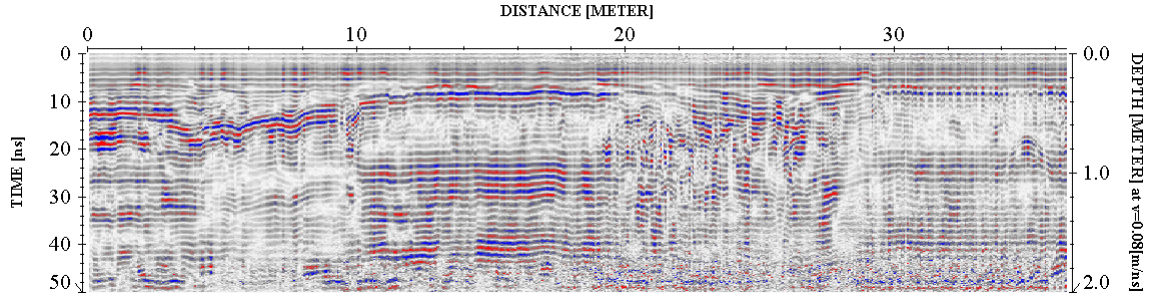
Step 2. Remove instrument noise *(dewow)*



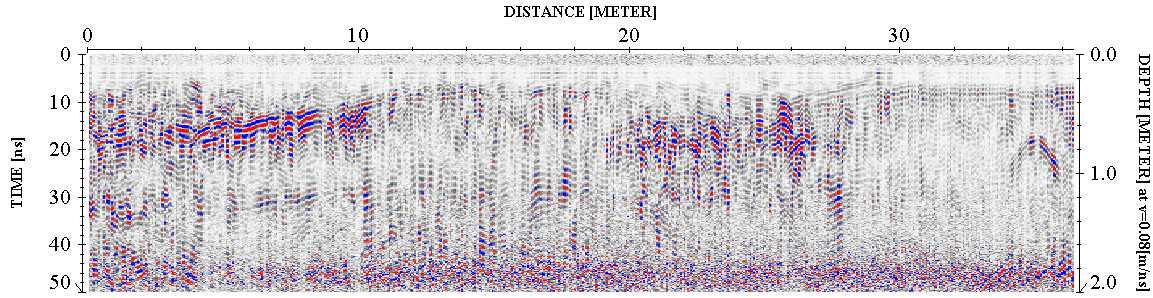
Step 3. Correct for attenuation losses *(energy decay function)*



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: Clear

Temperature: 50° F

Surface: Concrete, Asphalt, Pea Stone

Limitations: The geophysical noise level at the site was high due to being located in an urban environment and reinforced concrete slabs. Additionally, large portions of the site were covered with large, immobile objects. Limiting the coverage of the GPR survey.

RESULTS

The results of the geophysical engineering survey (GES) identified the following at the project site:

- Anomalies resembling potential subsurface utilities (such as sewer, water, gas and electric) were identified within the survey area. Their approximate locations are shown in the survey plan.
- No large geophysical anomalies resembling a potential underground storage tank were identified during the GES.
- 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** 475 Bay Street, Staten Island, New York 10304
CLIENT:	Langan
DATE:	April 28th, 2020
AUTH:	Chris Steinley

LEGEND



NOVA Geophysical Services

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Douglaston, New York 11362
Phone (347) 556-7787 * Fax (718) 261-1527
www.novagsi.com

SURVEY PLAN

SITE:	**Commercial Site** 475 Bay Street, Staten Island, New York 10304
CLIENT:	Langan
DATE:	April 28th, 2020
AUTH:	Chris Steinley

LEGEND

- Survey Area
- Electric
- Sewer
- Water
- Gas

GEOPHYSICAL IMAGES

Commercial Site
475 Bay Street,
Staten Island, New York 10304
April 28th, 2020



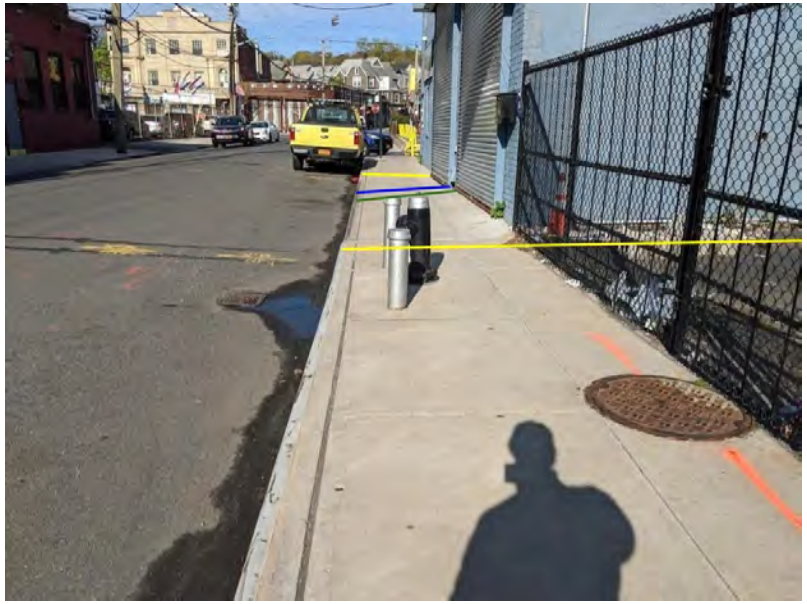






GEOPHYSICAL IMAGES

Commercial Site
475 Bay Street,
Staten Island, New York 10304
April 28th, 2020









GEOPHYSICAL IMAGES

Commercial Site
475 Bay Street,
Staten Island, New York 10304
April 28th, 2020







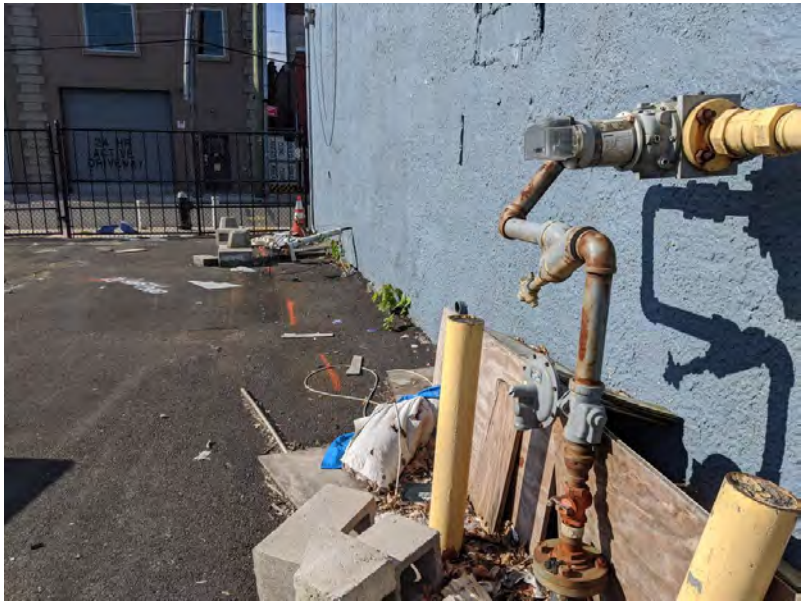


GEOPHYSICAL IMAGES

Commercial Site
475 Bay Street,
Staten Island, New York 10304
April 28th, 2020









GEOPHYSICAL IMAGES

Commercial Site
475 Bay Street,
Staten Island, New York 10304
April 28th, 2020





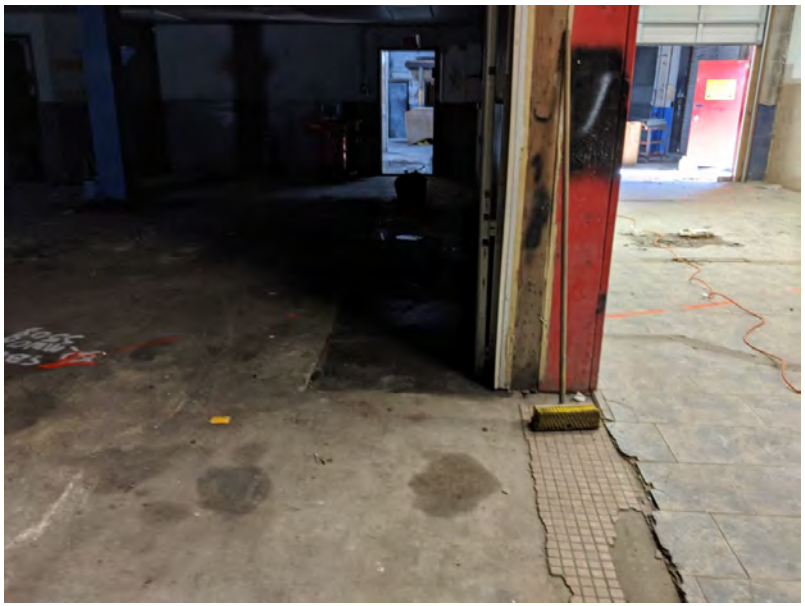


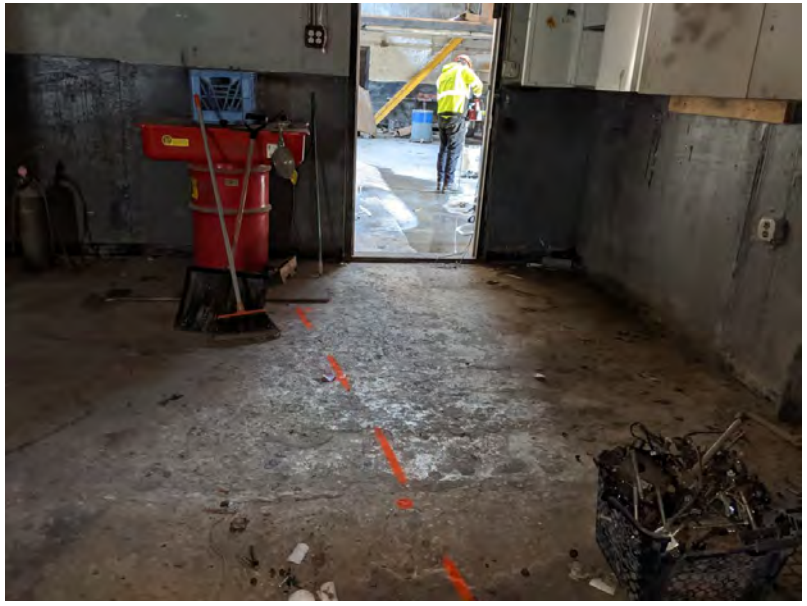


GEOPHYSICAL IMAGES

Commercial Site
475 Bay Street,
Staten Island, New York 10304
April 28th, 2020









GEOPHYSICAL IMAGES

Commercial Site
475 Bay Street,
Staten Island, New York 10304
April 28th, 2020









GEOPHYSICAL IMAGES

Commercial Site
475 Bay Street,
Staten Island, New York 10304
April 28th, 2020









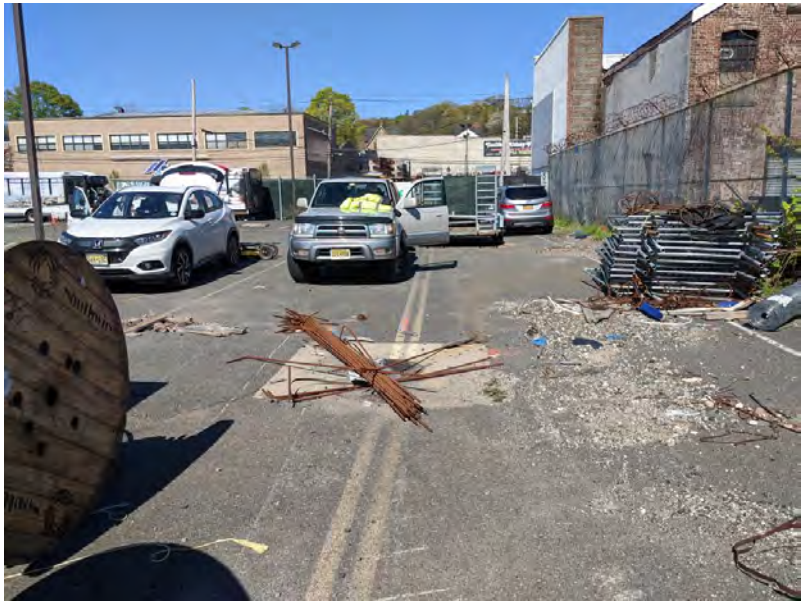
GEOPHYSICAL IMAGES

Commercial Site
475 Bay Street,
Staten Island, New York 10304
April 28th, 2020









GEOPHYSICAL IMAGES

Commercial Site
475 Bay Street,
Staten Island, New York 10304
April 28th, 2020









GEOPHYSICAL IMAGES

Commercial Site
475 Bay Street,
Staten Island, New York 10304
April 28th, 2020









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475 Bay Street,
Staten Island, New York 10304
April 28th, 2020









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Staten Island, New York 10304
April 28th, 2020









GEOPHYSICAL IMAGES

Commercial Site
475 Bay Street,
Staten Island, New York 10304
April 28th, 2020









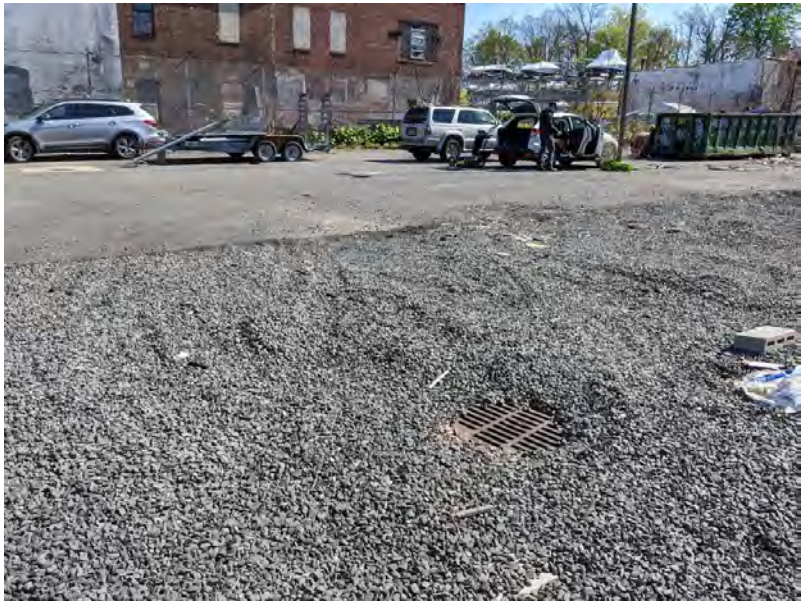
GEOPHYSICAL IMAGES

Commercial Site
475 Bay Street,
Staten Island, New York 10304
April 28th, 2020









GEOPHYSICAL IMAGES

Commercial Site

475 Bay Street,
Staten Island, New York 10304
April 28th, 2020



APPENDIX C
SOIL BORING LOGS

LANGAN

Log of Boring **SB-04** Sheet 1 of 1

Project: 31-33 Wave Street	Project No.: 170610601
Location: Staten Island, NY	Elevation and Datum: NA
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 4/29/20 — Date Finished: 4/29/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 20 ft — Rock Depth: NA
Size and Type of Bit: 4' Macrocore 2 1/4" diameter	Number of Samples: Disturbed 5 — Undisturbed NA — Core NA
Casing Diameter (in): NA — Casing Depth (ft): NA	Water Level (ft.): First ▽ 5.5 — Completion ▼ NA — 24 HR. ▼ NA
Casing Hammer: NA — Weight (lbs): NA — Drop (in): NA	Drilling Foreman: Thomas Harer
Sampler: 2-inch-diameter acetate liner	Field Engineer: Deirdre Casey
Sampler Hammer: NA — Weight (lbs): NA — Drop (in): NA	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		R1a (0-2"): Black coarse angular GRAVEL (dry)[ASPHALT]	0					0.0	
		R1b (2-7"): Dark brownish black fine to coarse SAND, some silt, trace coal ash, trace coal (moist)[FILL]	1					0.0	
		R1c (7-12"): Orangish brown fine SAND, trace silt, trace fine gravel (moist) [FILL]						0.0	SB04_0-2 and SODUP01_042920 at 1410
		R1d (12-26"): Brown to black fine to coarse SAND, trace coal, trace coal ash (moist)[FILL]	2	R1	MACROCORE	32		0.0	
		R1e (26-32"): Brown fine SAND, some silt, trace fine gravel (moist)[FILL]	3						
			4						
			5 ▽						
		R2a (0-6"): Brown fine SAND, some silt, trace fine gravel (moist)[FILL]	6					0.0	
		R2b (6-15"): Dark reddish brown fine SAND, some silt, some gravel (wet)[FILL]						0.0	
		R2c (15-27"): Dark gray to black fine SAND, some coal ash, trace coarse sand (wet)[FILL]	7	R2	MACROCORE	27		0.0	
			8					0.0	
			9						
		R3a (0-5"): Dark grayish brown sandy SILT (wet)[FILL]	10					0.0	
		R3b (5-15"): Dark grayish brown gravelly SILT, trace fine sand (wet)[FILL]						0.0	
			11	R3	MACROCORE	17		0.0	SB04_10-12 at 1415
		R3c (15-17"): Dark grayish brown sandy SILT, trace fine sand (wet)[FILL]	12					0.0	
		R4 (0-30"): Dark reddish brown fine SAND, some silt, trace fine gravel (wet)[SP-SC]	13						
								0.0	
			14	R4	MACROCORE	30		0.0	Petroleum-like odor
								0.0	
			15					0.0	SB04_14-16 at 1420
								0.0	
		R5a (0-12"): Dark grayish reddish brown SILT, trace fine sand, trace fine gravel (wet)[SP-SC]	16					0.0	
		R5b (12-22"): Dark grayish reddish brown SILT, some fine sand, trace fine gravel (wet)[SP-SC]						0.0	
			17					0.0	SB04_18-20 at 1425
		R5c (22-44"): Dark grayish reddish brown SILT, trace fine sand, trace fine gravel (wet)[SP-SC]						0.0	End of boring at 20 feet, below grade surface (bgs). Borehole was backfilled with soil cuttings to surface grade and patched with asphalt. Installed SV04 at 3.5 feet bgs. See soil vapor logs for details.
			18	R5	MACROCORE	44		0.0	
								0.0	
			19					0.0	
			20					0.0	

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Log of Boring **SB-05** Sheet 1 of 1

Project: 31-33 Wave Street	Project No.: 170610601
Location: Staten Island, NY	Elevation and Datum: NA
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 4/28/20 — Date Finished: 4/28/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 20 ft — Rock Depth: NA
Size and Type of Bit: 4' Macrocore 2 1/4" diameter	Number of Samples: Disturbed 5 — Undisturbed NA — Core NA
Casing Diameter (in): NA — Casing Depth (ft): NA	Water Level (ft.): First ▽ 7 — Completion ▼ NA — 24 HR. ▼ NA
Casing Hammer: NA — Weight (lbs): NA — Drop (in): NA	Drilling Foreman: Thomas Harer
Sampler: 2-inch-diameter acetate liner	Field Engineer: Deirdre Casey
Sampler Hammer: NA — Weight (lbs): NA — Drop (in): NA	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		R1a (0-3"): Black coarse angular GRAVEL (dry)[ASPHALT]	0						
		R1b (3-13"): Dark brown to black coarse SAND, some fine angular gravel, trace coal/slag (dry)[FILL]	1					0.0	SB05_0-2 at 1310
		R1c (13-18"): Dark reddish brown fine SAND, some silt, trace fine angular gravel (moist)[FILL]	2	R1	MACROCORE	18		0.0	
			3					0.0	
			4						
		R2a (0-17"): Orange brown to brown fine SAND, some silt, trace angular coarse gravel (moist)	5						
			6					0.0	SB05_6-8 at 1325
		R2b (17-21"): Dark brown to black fine SAND, some silt, trace angular coarse gravel (moist) ▽	7	R2	MACROCORE	33		0.0	
		R2c (21-33"): Dark reddish brown fine sand, some silt (wet)	8					0.0	
		R3 (0-48"): Dark brown fine SAND, some silt (wet)	9					0.0	
			10	R3	MACROCORE	48		0.0	
			11					0.0	
			12					0.0	
		R4 (0-31"): Dark brown fine SAND, some silt (wet)	13						
			14	R4	MACROCORE	31		0.0	
			15					0.0	
		R5a (0-41"): Dark brown fine SAND, some silt (wet)	16					0.0	
			17					0.0	
			18	R5	MACROCORE	48		0.0	SB05_18-20 at 1345
		R5b (41-48"): Black SILT, some fine sand, trace clay (wet)	19					0.0	End of boring at 20 feet, below grade surface (bgs). Installed MW-05 screened from 4 to 14 feet bgs. See construction logs for details.
			20					0.0	

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Log of Boring **SB-06** Sheet 1 of 1

Project: 31-33 Wave Street	Project No.: 170610601
Location: Staten Island, NY	Elevation and Datum: NA
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 4/29/20 — Date Finished: 4/29/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 20 ft — Rock Depth: NA
Size and Type of Bit: 4' Macrocore 2 1/4" diameter	Number of Samples: Disturbed 5, Undisturbed NA, Core NA
Casing Diameter (in): NA — Casing Depth (ft): NA	Water Level (ft.): First ▽ 4, Completion ▼ NA, 24 HR. ▼ NA
Casing Hammer: NA — Weight (lbs): NA — Drop (in): NA	Drilling Foreman: Thomas Harer
Sampler: 2-inch-diameter acetate liner	Field Engineer: Deirdre Casey
Sampler Hammer: NA — Weight (lbs): NA — Drop (in): NA	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		R1a (0-2"): Black coarse angular GRAVEL (dry)[ASPHALT]	0					0.0	
		R1b (2-8"): Light gray medium angular GRAVEL (dry)[CONCRETE]						0.0	
		R1c (8-15"): Dark reddish brown fine SAND, trace silt (moist)[FILL]	1	R1	MACROCORE	25		0.0	SB06_0-2 at 0900
		R1d (15-25"): Gray to black fine SAND, trace coal ash, trace wood, trace coal, Trace tile (moist)[FILL]	2					0.0	
			3						
		▽	4						
		R2a (0-6"): Grayish reddish brown fine SAND, trace wood, trace coarse sand (wet)[FILL]	5						
		R2b (6-15"): Tannish brown to mottled gray SILT, trace wood, trace glass, trace coal, trace coal ash, trace clay, trace fine sand (wet)[FILL]						0.0	
		R2c (15-20"): Dark brown SILT, trace wood, trace glass, trace fine gravel (wet)[FILL]	6	R2	MACROCORE	23		8.0	SB06_5-7 at 0905
		R2d (20-23"): Dark reddish brown fine SAND, trace wood, trace silt (wet)[FILL]	7					1.7	
								0.0	
								0.0	
		R3a (0-12"): Grayish brown fine SAND, trace silt, trace fine gravel (wet)[FILL]	8						
		R3b (12-35"): Reddish brown fine SAND, some silt, trace wood (wet)[FILL]	9						
			10	R3	MACROCORE	35		0.0	
								0.0	
			11					0.0	
								0.0	
			12					0.0	
		R4 (0-28"): Reddish brown fine SAND, some silt (wet)[SP-SM]						0.0	
			13						SB06_12-14 at 0910
								0.0	
			14	R4	MACROCORE	28		0.0	
								0.0	
			15					0.0	
								0.0	
			16						
		R5a (0-28"): Reddish brown fine SAND, some silt (wet)[SP-SM]							
			17					0.0	SB06_18-20 at 0915
								0.0	Mild organic odor 19-20 ft bgs.
			18	R5	MACROCORE	33		0.0	End of boring at 20 feet,
		R5b (28-33"): Grayish black SILT, trace clay, trace fine sand (wet)[GW-GM]						0.0	below grade surface (bgs).Installed MW-06
			19					0.0	screened from 2 to 12 feet
								1.6	bgs. See construction logs for details.
			20						

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Log of Boring **SB-07** Sheet 1 of 1

Project: 31-33 Wave Street	Project No.: 170610601
Location: Staten Island, NY	Elevation and Datum: NA
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 4/29/20 — Date Finished: 4/29/20
Drilling Equipment: Geoprobe 420M	Completion Depth: 20 ft — Rock Depth: NA
Size and Type of Bit: 4' Macrocore 2 1/4" diameter	Number of Samples: Disturbed 5 — Undisturbed NA — Core NA
Casing Diameter (in): NA — Casing Depth (ft): NA	Water Level (ft.): First ▽ 4 — Completion ▼ NA — 24 HR. ▼ NA
Casing Hammer: NA — Weight (lbs): NA — Drop (in): NA	Drilling Foreman: Thomas Harer
Sampler: 2-inch-diameter acetate liner	Field Engineer: Deirdre Casey
Sampler Hammer: NA — Weight (lbs): NA — Drop (in): NA	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		R1a (0-2"): Black coarse angular GRAVEL (dry)[ASPHALT]	0					0.0	
		R1b (2-6"): Dark brown fine SAND, some fine gravel, trace silt (moist)[FILL]	1					0.0	
		R1c (6-14"): Dark reddish brown fine SAND, some silt (moist)[FILL]						0.0	SB07_0-2 at 1145
		R1d (14-32"): Brown fine SAND, trace fine gravel, Coal and coal ash lens 19-20 and 24-25 (moist)	2	R1	MACROCORE	32		0.0	
			3					0.0	
			4 ▽						
		R2 (0-12"): Dark reddish brown fine SAND, trace wood, trace coal, trace coal ash, trace silt, trace fine gravel (wet)[FILL]	5						
			6	R2	MACROCORE	12		0.0	
			7					0.0	
			8					0.0	
		R3 (0-17"): Reddish brown fine SAND, trace silt, trace fine gravel [SP-SC]	9						SB07_8-10 at 1150.
			10	R3	MACROCORE	17		0.0	
			11					0.0	
			12					0.0	
		R4 (0-22"): Reddish brown fine SAND, trace silt, trace fine gravel [SP-SC]	13						
			14	R4	MACROCORE	22		0.0	
			15					0.0	
			16					0.0	
		R5a (0-10"): Reddish brown fine SAND, trace silt, trace fine gravel							
		R5b (10-20"): Dark gray SILT, some clay, trace fine sand (wet)[SP-SC]	17					0.0	SB07_18-20 at 1200
		R5c (20-32"): Grayish tan fine SAND, trace silt, trace fine gravel (wet)[SP-SC]	18	R5	MACROCORE	32		0.0	End of boring at 20 feet, below grade surface (bgs). Borehole was backfilled with soil cuttings to surface grade and patched with asphalt. Installed SV04 at 2 feet bgs. See soil vapor logs for details.
			19					0.0	
			20					0.0	

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Log of Boring **SB-08** Sheet 1 of 1

Project: 31-33 Wave Street	Project No.: 170610601
Location: Staten Island, NY	Elevation and Datum: NA
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 4/28/20 — Date Finished: 4/28/20
Drilling Equipment: Geoprobe 420M	Completion Depth: 15 ft — Rock Depth: NA
Size and Type of Bit: 4' Macrocore 2 1/4" diameter	Number of Samples: Disturbed 5 — Undisturbed NA — Core NA
Casing Diameter (in): NA — Casing Depth (ft): NA	Water Level (ft.): First ▽ 5 — Completion ▼ NA — 24 HR. ▼ NA
Casing Hammer: NA — Weight (lbs): NA — Drop (in): NA	Drilling Foreman: Julio Galaraza
Sampler: 2-inch-diameter acetate liner	Field Engineer: Deirdre Casey
Sampler Hammer: NA — Weight (lbs): NA — Drop (in): NA	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		R1a (0-12") Gray medium SAND (dry)[CONCRETE]	0					0.0	
								0.0	
		R1b (12-24"): Grayish brown fine SAND, trace gravel (dry)[FILL]	1	R1	MACROCORE	24		0.0	
			2						SB08_0-2 at 1450
			3						
			4	R2	MACROCORE	12			
			▽ 5					0.0	
		R2a (0-6"): Light reddish brown fine SAND, trace fine gravel (wet)[FILL]						0.0	SB08_4-6 at 1455
		R2b (6-12"): Reddish brown SAND, trace fine gravel (wet)[FILL]	6					0.0	
		R3a (0-24"): Brown fine SAND, trace fine gravel (wet)[FILL]	7	R3	MACROCORE	30			
			8					0.0	
		R3b (24-30"): Light brownish olive fine SAND, trace medium sand, trace fine gravel (wet)						0.0	
			9					0.0	
		R4 (0-18"): Brownish olive fine SAND, some medium sand, trace fine gravel (wet)	10	R4	MACROCORE	18			
			11					0.0	
								0.0	
								0.0	
			12					0.0	
			13	R5	MACROCORE	30			SB08_13-15 at 1500
		R5 (0-30"): Brown fine SAND, trace fine gravel (wet)						0.0	
			14					0.0	
								0.0	
			15					0.0	End of boring at 15 feet, below grade surface (bgs). Installed MW-08 screened from 1 to 11 feet bgs. See construction logs for details.
			16						
			17						
			18						
			19						
			20						

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Log of Boring **SB-09** Sheet 1 of 1

Project: 31-33 Wave Street	Project No.: 170610601
Location: Staten Island, NY	Elevation and Datum: NA
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 4/28/20 — Date Finished: 4/28/20
Drilling Equipment: Geoprobe 420M	Completion Depth: 15 ft — Rock Depth: NA
Size and Type of Bit: 3' Macrocore 2 1/4" diameter	Number of Samples: Disturbed 5 — Undisturbed NA — Core NA
Casing Diameter (in): NA — Casing Depth (ft): NA	Water Level (ft.): First ▽ 6 — Completion ▼ NA — 24 HR. ▼ NA
Casing Hammer: NA — Weight (lbs): NA — Drop (in): NA	Drilling Foreman: Julio Galaraza
Sampler: 2-inch-diameter acetate liner	Field Engineer: Deirdre Casey
Sampler Hammer: NA — Weight (lbs): NA — Drop (in): NA	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		R1a (0-12"): Gray medium SAND (dry)[CONCRETE]	0	R1	MACROCORE	29		0.0	
		R1b (12-23"): Reddish brown fine SAND, trace fine gravel [CH]	1					0.0	SB09_0-2 at 1330
		R1c (23-27"): Reddish brown clayey SILT, some fine sand, trace fine gravel (moist)[FILL]	2					0.0	
		R1d (27-29"): Black coarse angular GRAVEL (dry)[ASPHALT]	3						
		R2a (0-18"): Reddish brown fine SAND, trace fine gravel (moist)[FILL]	4	R2	MACROCORE	24		0.0	SB09_4-6 at 1335
			5					0.1	
		R2b (18-20"): Grayish olive CLAY, trace fine gravel (moist)						0.0	
		R2c (20-24"): Light gray coarse SAND, trace coal, trace gravel (moist)	6					0.2	
		R3a (0-18"): Brownish olive fine SAND, trace gravel (wet)[FILL]	7	R3	MACROCORE	36			
		R3b (18-36"): Black clayey SAND, trace wood, trace fine gravel (wet)	8					0.0	
								0.0	
		R4 (0-6"): Brownish gray medium SAND, trace fine gravel (wet)	9					0.0	
			10	R4	MACROCORE	6			
			11					0.0	
								0.0	
		R5a (0-12"): Brown silty fine SAND (wet)[NATIVE]	12						
			13	R5	MACROCORE	18			SB09_13-15 at 1340
								0.0	
			14					0.0	
		R5b (12-18"): Gray CLAY, trace fine gravel (wet)[CL]						0.0	
			15					0.0	End of boring at 15 feet, below grade surface (bgs). Borehole was backfilled with soil cuttings to surface grade and patched with asphalt.
			16						
			17						
			18						
			19						
			20						

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APPENDIX D
WELL CONSTRUCTION AND GROUNDWATER SAMPLING LOGS

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. **MW-05**

PROJECT		PROJECT NO.	
31-33 Wave Street		170610601	
LOCATION		**ELEVATION AND DATUM**	
Staten Island, New York		el.	NAVD88
DRILLING AGENCY		**DATE STARTED**	**DATE FINISHED**
AARCO Environmental Services, Corp.		4/28/2020	4/28/2020
DRILLING EQUIPMENT		**DRILLER**	
Geoprobe® 7822 DT		Thomas Harer	
SIZE AND TYPE OF BIT		**INSPECTOR**	
4-inch Direct Push		Deirdre Casey	
BOREHOLE DIAMETER		**TYPE OF WELL (OVERBURDEN / BEDROCK)**	
2-1/4 inch		Overburden	
RISER MATERIAL	**DIAMETER**	**TYPE OF BACKFILL MATERIAL**	
PVC	2-Inch	Sand	
TYPE OF SCREEN	**DIAMETER**	**TYPE OF WELL PACK**	**TYPE OF SEAL MATERIAL**
PVC No. 10 Slot	2-Inch	No. 2 Sand	Bentonite

METHOD OF INSTALLATION

A Geoprobe 7822DT was used to advance the boring to approximately 20 feet below grade surface (bgs). A permanent 2-inch PVC monitoring well was installed, which consisted of 10' of 10-slot (0.010-inch) well screen, and a solid 2" PVC riser. Well screen was installed from approximately 4 to 14 feet bgs with riser from about grade surface to about 3 feet bgs. The annulus was filled with sand to 4 feet bgs, sealed with hydrated bentonite, and completed to surface grade with clean sand.

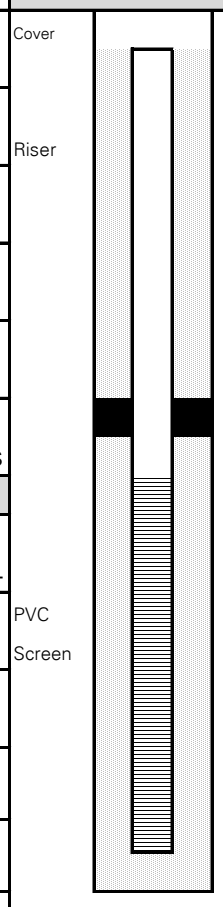
WELL DEVELOPMENT DATA

SURGE BLOCK DIAMETER	N/A	**TYPE PUMP**		Submersible	**DEVELOPMENT CONFIRMATION**
DRILLER OR LANGAN	Driller	**MAX PUMP RATE**		1 LPM	Well Developed on 4/29/2020 until groundwater was no longer turbid
NUMBER OF SURGE CYCLES	N/A	**TOTAL VOLUME**		~10 Gal	

TOP OF CASING	**ELEVATION** N/A	**DEPTH (ft)** N/A
TOP OF SEAL	**ELEVATION** N/A	**DEPTH (ft)** 0.5
TOP OF FILTER	**ELEVATION** N/A	**DEPTH (ft)** 3
TOP OF SCREEN	**ELEVATION** N/A	**DEPTH (ft)** 4.0
BOTTOM OF BORING	**ELEVATION** N/A	**DEPTH (ft)** 14
SCREEN LENGTH		10 ft
SLOT SIZE		No. 10 Slot; 0.010 Inches

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER (ft bgs)
N/A	4/30/2020	10.24



WELL DETAILS	SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
		0
		3
		4.00
		14.00

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WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. **MW-06**

PROJECT		PROJECT NO.	
31-33 Wave Street		170610601	
LOCATION		**ELEVATION AND DATUM**	
Staten Island, New York		el.	NAVD88
DRILLING AGENCY		**DATE STARTED**	**DATE FINISHED**
AARCO Environmental Services, Corp.		4/29/2020	4/29/2020
DRILLING EQUIPMENT		**DRILLER**	
Geoprobe® 7822 DT		Thomas Harer	
SIZE AND TYPE OF BIT		**INSPECTOR**	
4-inch Direct Push		Deirdre Casey	
BOREHOLE DIAMETER		**TYPE OF WELL (OVERBURDEN / BEDROCK)**	
2-1/4 inch		Overburden	
RISER MATERIAL	**DIAMETER**	**TYPE OF BACKFILL MATERIAL**	
PVC	2-Inch	Sand	
TYPE OF SCREEN	**DIAMETER**	**TYPE OF WELL PACK**	**TYPE OF SEAL MATERIAL**
PVC No. 10 Slot	2-Inch	No. 2 Sand	Bentonite

METHOD OF INSTALLATION

A Geoprobe 7822DT was used to advance the boring to approximately 12 feet below grade surface (bgs). A permanent 2-inch PVC monitoring well was installed, which consisted of 10' of 10-slot (0.010-inch) well screen, and a solid 2" PVC riser. Well screen was installed from approximately 2 to 12 feet bgs with riser from grade surface to about 2 feet bgs. The annulus was filled with sand to 1 foot bgs and sealed with hydrated bentonite to surface grade.

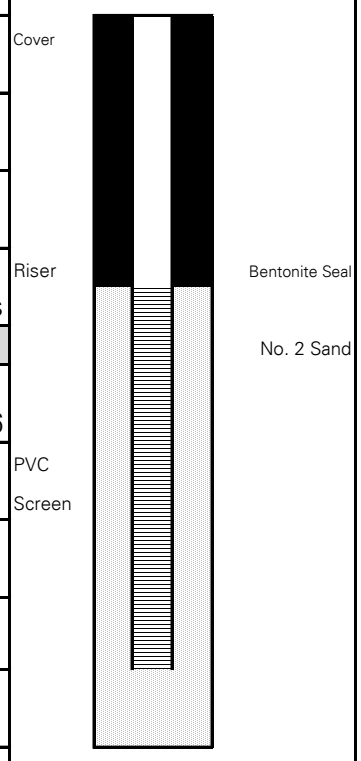
WELL DEVELOPMENT DATA

SURGE BLOCK DIAMETER	N/A	**TYPE PUMP**	Submersible	**DEVELOPMENT CONFIRMATION**
DRILLER OR LANGAN	Driller	**MAX PUMP RATE**	1 LPM	Well Developed on 4/29/2020 until groundwater was no longer turbid
NUMBER OF SURGE CYCLES	N/A	**TOTAL VOLUME**	~10 Gal	

TOP OF CASING	**ELEVATION** N/A	**DEPTH (ft)** N/A
TOP OF SEAL	**ELEVATION** N/A	**DEPTH (ft)** 0.5
TOP OF FILTER	**ELEVATION** N/A	**DEPTH (ft)** 1
TOP OF SCREEN	**ELEVATION** N/A	**DEPTH (ft)** 2.0
BOTTOM OF BORING	**ELEVATION** N/A	**DEPTH (ft)** 12
SCREEN LENGTH		10 ft
SLOT SIZE		No. 10 Slot; 0.010 Inches

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER (ft bgs)
N/A	4/30/2020	3.56



WELL DETAILS	SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
		0
		1
		11.00
		EOB

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WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. **MW-08**

PROJECT		PROJECT NO.	
31-33 Wave Street		170610601	
LOCATION		**ELEVATION AND DATUM**	
Staten Island, New York		el. N/A	NAVD88
DRILLING AGENCY		**DATE STARTED**	**DATE FINISHED**
AARCO Environmental Services, Corp.		4/28/2020	4/29/2020
DRILLING EQUIPMENT		**DRILLER**	
Geoprobe® 420 M		Julio Yolozo	
SIZE AND TYPE OF BIT		**INSPECTOR**	
2-inch Direct Push		Deirdre Casey	
BOREHOLE DIAMETER		**TYPE OF WELL (OVERBURDEN / BEDROCK)**	
1-1/4 inch		Overburden	
RISER MATERIAL	**DIAMETER**	**TYPE OF BACKFILL MATERIAL**	
PVC	1-Inch	Sand	
TYPE OF SCREEN	**DIAMETER**	**TYPE OF WELL PACK**	**TYPE OF SEAL MATERIAL**
PVC No. 10 Slot	1-Inch	No. 2 Sand	Bentonite

METHOD OF INSTALLATION

A Geoprobe 420M was used to advance the boring to approximately 15 feet below grade surface (bgs). A permanent 1-inch PVC monitoring well was installed, which consisted of 10' of 10-slot (0.010-inch) well screen, and a solid 1" PVC riser. Well screen was installed from approximately 1 to 11 feet bgs with riser from about grade surface to about 1 foot bgs. The annulus was filled with sand to 1 foot bgs and sealed with hydrated bentonite to surface grade.

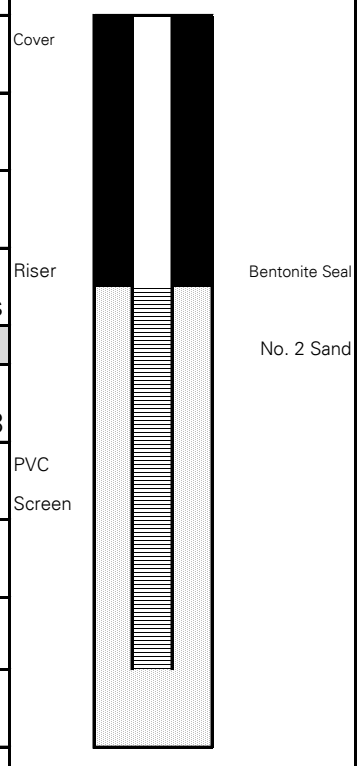
WELL DEVELOPMENT DATA

SURGE BLOCK DIAMETER	N/A	**TYPE PUMP**	Peristaltic	**DEVELOPMENT CONFIRMATION**
DRILLER OR LANGAN	Driller	**MAX PUMP RATE**	0.4 LPM	Well Developed on 4/29/2020 until groundwater was no longer turbid
NUMBER OF SURGE CYCLES	N/A	**TOTAL VOLUME**	~5 Gal	

TOP OF CASING	**ELEVATION** N/A	**DEPTH (ft)** N/A
TOP OF SEAL	**ELEVATION** N/A	**DEPTH (ft)** 0
TOP OF FILTER	**ELEVATION** N/A	**DEPTH (ft)** 1
TOP OF SCREEN	**ELEVATION** N/A	**DEPTH (ft)** 1.0
BOTTOM OF BORING	**ELEVATION** N/A	**DEPTH (ft)** 11
SCREEN LENGTH		10 ft
SLOT SIZE		No. 10 Slot; 0.010 Inches

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER (ft bgs)
N/A	4/30/2020	3.73



WELL DETAILS	SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
		0
		1
		11.00
		EOB

LANGAN Engineering, Environmental, Surveying, Landscape Architecture, and Geology D.P.C.

21 Penn Plaza, 360 West 31st Street, 8th Floor, New York

Groundwater Sampling Logs

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	**31-33 Wave Street**	**Well No:**	MW05	**Water Quality Device Model:**	**Horiba U52**	**Weather:**	55-58F Rain		MW05_043020
Project Number:	**170610601**	**Well Depth:**	14'	**Pine Number:**	**51666**	**Background PID (ppm):**	0	**Sample(s):**	
Site Location:	**Staten Island**	**Well Diameter:**	2"	**Pump Make and Model:**	**Peristaltic Pump**	**PID Beneath Inner Cap (ppm):**	0		
Sampling Personnel:	**Luke McCartney**	**Well Screen Interval:**	4' 14'	**Pine Number:** **Tubing Diameter:**	**51860** **3/16 ID x 3/8 OD**	**Pump Intake Depth:** **Depth to Water Before Purge:**	12.50 10.24	**Sample Date:** **Sample Time:**	4/30/2020 16:40

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
15:23	14.78	7.38	61	0.638	271	1.76					**N/A**
15:28	14.23	7.43	22	0.589	459	0.69		0.6	3		**N/A**
15:33	14.23	7.36	-23	0.582	993	1.08		0.4	5		**N**
15:38	14.21	7.33	-60	0.628	623	0.50		0.3	6.5		**N**
15:43	14.15	7.39	-83	0.619	557	2.36		0.3	8	Slight brown, no odor	**N**
15:48	14.08	7.41	-104	0.652	524	1.59		0.4	10		**N**
15:53	14.10	7.43	-98	0.657	338	3.29		0.3	11.5		**N**
15:58								0.1	12		**N**
16:03	14.27	7.53	-95	0.658	125	3.79		0.2	13		**N**
16:08	14.12	7.49	-96	0.666	129	0.63		0.3	14.5	Clear, no odor	**N**
16:13	14.07	7.49	-101	0.660	129	2.61		0.2	15.5		**N**
16:18	14.07	7.49	-102	0.661	129	2.95		0.3	17		**N**
16:23	Well pumped dry - allow recharge and sample										**N**
16:40	Well Sampled										**N**
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N
											N

Notes:

1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

Groundwater Sampling Logs

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	**31-33 Wave Street**	**Well No:**	MW06	**Water Quality Device Model:**	**Horiba U52**	**Weather:**	55-58F Rain		MW06_043020
Project Number:	**170610601**	**Well Depth:**	11'	**Pine Number:**	**51666**	**Background PID (ppm):**	0	**Sample(s):**	
Site Location:	**Staten Island**	**Well Diameter:**	2"	**Pump Make and Model:**	**Peristaltic Pump**	**PID Beneath Inner Cap (ppm):**	0		
Sampling		**Well Screen**	1'	**Pine Number:**	**51860**	**Pump Intake Depth:**	5.00	**Sample Date:**	4/30/2020
Personnel:	**Luke McCartney**	**Interval:**	11'	**Tubing Diameter:**	**3/16 ID x 3/8 OD**	**Depth to Water Before Purge:**	3.56	**Sample Time:**	14:14

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
13:14	13.67	7.91	-93	0.367	78.4	1.57			0		**N/A**
13:19	14.05	7.56	-137	0.383	40.10	0.00		0.2	1		**N/A**
13:24	14.07	7.41	-147	0.397	26.40	0.00		0.3	2.5		**N**
13:29	14.07	7.35	-150	0.406	14.80	0.00		0.3	4		**N**
13:34	14.08	7.33	-152	0.406	11.60	0.00		0.2	5		**N**
13:39	14.09	7.31	-154	0.416	8.70	0.00		0.5	7.5		**N**
13:44	14.12	7.30	-154	0.419	8.60	0.00		0.2	8.5	Clear, no odor	**N**
13:49	14.18	7.29	-155	0.418	5.0	0.00		0.3	10		**N**
13:54	14.24	7.29	-155	0.417	6.5	0.00		0.4	12		**N**
13:59	14.24	7.28	-155	0.420	2.2	0.00		0.4	14		**N**
14:04	14.22	7.28	-154	0.422	2.3	0.00		0.4	16		**N**
14:09	14.24	7.27	-154	0.426	0.0	0.00		0.4	18		**Y**
14:14	14.19	7.28	-154	0.424	0.7	0.00		0.4	20		**Y**

Notes:
1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

Groundwater Sampling Logs

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	**31-33 Wave Street**	**Well No:**	MW08	**Water Quality Device Model:**	**Horiba U52**	**Weather:**	55-58F Rain		MW08_043020
Project Number:	**170610601**	**Well Depth:**	11'	**Pine Number:**	**51666**	**Background PID (ppm):**	0	**Sample(s):**	GWDUP01_043020
Site Location:	**Staten Island**	**Well Diameter:**	1"	**Pump Make and Model:**	**Peristaltic Pump**	**PID Beneath Inner Cap (ppm):**	0		
Sampling		**Well Screen**	1'	**Pine Number:**	**51860**	**Pump Intake Depth:**	4.50	**Sample Date:**	4/30/2020
Personnel:	**Luke McCartney**	**Interval:**	11'	**Tubing Diameter:**	**3/16 ID x 3/8 OD**	**Depth to Water Before Purge:**	3.73	**Sample Time:**	10:55

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
9:55	12.92	6.29	212	0.349	1000	5.69			0		**N/A**
10:00	12.89	7.03	187	0.326	1000	5.40		0.5	2.5	Brown, no odor	**N/A**
10:05	12.87	7.30	185	0.325	846	5.6		0.25	3.75		**N**
10:10	12.86	7.47	187	0.329	284	5.60		0.2	4.75		**N**
10:15	12.85	7.53	189	0.329	224	5.56		0.2	5.75		**N**
10:20	12.82	7.58	192	0.332	68.3	5.64		0.25	7		**N**
10:25	12.80	7.61	195	0.334	45.5	5.71		0.35	8.75		**N**
10:30	12.79	7.66	197	0.336	38.2	5.77		0.25	10	Clear, no odor	**N**
10:35	12.78	7.67	198	0.337	39.4	5.90		0.25	11.25		**N**
10:40	12.78	7.68	199	0.338	62.9	5.62		0.35	13		**N**
10:45	12.77	7.69	202	0.339	51.3	5.64		0.3	14.5		**N**
10:50	12.77	7.70	203	0.340	20.7	5.60		0.5	17		**N**
10:55	12.76	7.71	205	0.340	15.9	5.57					**N**

Notes:
1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

APPENDIX E
SOIL VAPOR CONSTRUCTION AND SAMPLING LOGS

SUB-SLAB SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SS08

PROJECT: 31-33 Wave Street		**PROJECT NO.:** 170610601	
LOCATION: Staten Island, New York		**SURFACE ELEVATION AND DATUM:** n/a	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services Corp.		**INSTALLATION DATE STARTED:** 4/28/2020	**DATE FINISHED:** 4/28/2020
INSTALLATION FOREMAN: Ron Dixon		**SAMPLE DATE STARTED:** 4/30/2020	**DATE FINISHED:** 4/30/2020
INSTALLATION EQUIPMENT: Geoprobe® 420 M		**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
INSPECTOR: Deirdre Casey		**SAMPLER:** Luke McCartney	
POTENTIAL SAMPLE INTERFERENCES: None observed		**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 54-58°F Wind: 16-24 mph SE Precipitation: Rain/cloudy Pressure: 1015-1019 MB	

METHOD OF INSTALLATION AND PURGING:
AARCO advanced subslab vapor point to 14-inches below the top of the slab. A small amount of No. 2 sand was backfilled into the borehole to set the vapor tubing. No. 2 sand was backfilled around the tubing to 3 inches bgs, and the remainder of the borehole was sealed with bentonite.

TUBING TYPE/DIAMETER: 1/4-Inch Teflon-lined Polyethylene Tubing		**TYPE OF MATERIAL ABOVE SEAL:** Hydrated bentonite	
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite	
BOREHOLE DIAMETER: 2-inch		**FILTER PACK MATERIAL (Sand or Glass Beads):** No. 2 Sand	
PURGE VOLUME (L):	0.067		
PURGE FLOW RATE (ML/MIN):	200		
PID AFTER PURGE (PPM):	0		
HELIUM TESTS	Pre-sampling / Post-sampling		
HELIUM TEST IN BUCKET(%):	21.2% / 19.7%		
HELIUM TEST IN TUBE (PPM):	0.0% / 0.0%		
SAMPLE START TIME:	9:13		
SAMPLE STOP TIME:	17:13		
TOTAL SAMPLE TIME (MIN):	480		
REGULATOR FLOW RATE (L/MIN):	0.009673		
VOLUME OF SAMPLE (LITERS):	6		
PID AFTER SAMPLE (PPM):	0		
SAMPLE MOISTURE CONTENT:	n/a		
CAN SERIAL NUMBER:	16956		
REGULATOR SERIAL NUMBER:	5610		
CAN START VACUUM PRESS. (" HG):	-29.75		
CAN STOP VACUUM PRESS. (" HG):	-7		

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	**DEPTH (INCHES FROM SURFACE)**	**NOTES**
Top of Seal	0.00	
Top of Pack	3 inches	
Probe Depth	14 inches	

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Sample Name: SS08_043020

Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

SUB-SLAB SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SS09

PROJECT: 31-33 Wave Street		**PROJECT NO.:** 170610601	
LOCATION: Staten Island, New York		**SURFACE ELEVATION AND DATUM:** n/a	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services Corp.		**INSTALLATION DATE STARTED:** 4/28/2020	**DATE FINISHED:** 4/28/2020
INSTALLATION FOREMAN: Ron Dixon		**SAMPLE DATE STARTED:** 4/30/2020	**DATE FINISHED:** 4/30/2020
INSTALLATION EQUIPMENT: Geoprobe® 420 M		**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
INSPECTOR: Deirdre Casey		**SAMPLER:** Luke McCartney	
POTENTIAL SAMPLE INTERFERENCES: None observed		**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 54-58°F Wind: 16-24 mph SE Precipitation: Rain/cloudy Pressure: 1015-1019 MB	

METHOD OF INSTALLATION AND PURGING:
AARCO advanced subslab vapor point to 14-inches below the top of the slab. A small amount of No. 2 sand was backfilled into the borehole to set the vapor tubing. No. 2 sand was backfilled around the tubing to 2 inches bgs, and the remainder of the borehole was sealed with bentonite.

TUBING TYPE/DIAMETER: 1/4-Inch Teflon-lined Polyethylene Tubing	**TYPE OF MATERIAL ABOVE SEAL:** Hydrated bentonite
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite
BOREHOLE DIAMETER: 2-inch	**FILTER PACK MATERIAL (Sand or Glass Beads):** No. 2 Sand

PURGE VOLUME (L):	0.067	
PURGE FLOW RATE (ML/MIN):	200	
PID AFTER PURGE (PPM):	0.4	
HELIUM TESTS	Pre-sampling	Post-sampling
HELIUM TEST IN BUCKET(%):	18.5%	23.4%
HELIUM TEST IN TUBE (PPM):	0.0%	0.0%
SAMPLE START TIME:	9:12	
SAMPLE STOP TIME:	17:12	
TOTAL SAMPLE TIME (MIN):	480	
REGULATOR FLOW RATE (L/MIN):	0.01151	
VOLUME OF SAMPLE (LITERS):	6	
PID AFTER SAMPLE (PPM):	0.2	
SAMPLE MOISTURE CONTENT:	n/a	
CAN SERIAL NUMBER:	18302	
REGULATOR SERIAL NUMBER:	Y15	
CAN START VACUUM PRESS. (" HG):	-31.5	
CAN STOP VACUUM PRESS. (" HG):	-7	

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	**DEPTH (INCHES FROM SURFACE)**	**NOTES**
Top of Seal	0.00	
Top of Pack	3.00	
Probe Depth	14.00	

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Sample Name: SS09_043020

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV04

PROJECT: 31-33 Wave Street	**PROJECT NO.:** 170610601	
LOCATION: Staten Island, New York	**SURFACE ELEVATION AND DATUM:** n/a	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services Corp.	**INSTALLATION DATE STARTED:** 4/29/2020	**DATE FINISHED:** 4/29/2020
INSTALLATION FOREMAN: Ron Dixon	**SAMPLE DATE STARTED:** 4/30/2020	**DATE FINISHED:** 4/30/2020
INSTALLATION EQUIPMENT: Geoprobe® 7822 DT	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
INSPECTOR: Deirdre Casey	**SAMPLER:** Luke McCartney	
POTENTIAL SAMPLE INTERFERENCES: None Observed	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 54-58°F Wind: 16-24 mph SE Precipitation: Rain/cloudy Pressure: 1015-1019 MB	

METHOD OF INSTALLATION AND PURGING:
Advance Geoprobe 7822DT to 3 feet below grade surface (bgs), install 2-inch polyethylene probe, backfill with No. 2 sand to 2 feet bgs, and sealed with hydrated bentonite to surface with hydrated bentonite.

TUBING TYPE/DIAMETER: 1/4-Inch Teflon-lined Polyethylene Tubing	**TYPE OF MATERIAL ABOVE SEAL:** Hydrated bentonite
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: None	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite
BOREHOLE DIAMETER: 2-inch	**FILTER PACK MATERIAL (Sand or Glass Beads):** No. 2 Sand

PURGE VOLUME (L):	0.067	
PURGE FLOW RATE (ML/MIN):	200	
PID AFTER PURGE (PPM):	0.1	
HELIUM TESTS	Pre-sampling	Post-sampling
HELIUM TEST IN BUCKET(%):	14.3%	17.1%
HELIUM TEST IN TUBE (PPM):	0.0%	0.0%
SAMPLE START TIME:	12:33	
SAMPLE STOP TIME:	14:33	
TOTAL SAMPLE TIME (MIN):	120	
REGULATOR FLOW RATE (L/MIN):	0.004556	
VOLUME OF SAMPLE (LITERS):	6	
PID AFTER SAMPLE (PPM):	0.1	
SAMPLE MOISTURE CONTENT:	n/a	
CAN SERIAL NUMBER:	467	
REGULATOR SERIAL NUMBER:	Y12	
CAN START VACUUM PRESS. (" HG):	-30	
CAN STOP VACUUM PRESS. (" HG):	-5.5	

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	**DEPTH (FEET FROM SURFACE)**	**NOTES**
SURFACE		
Top of Seal	0	
Top of Pack	2	
Tube Depth	3	
SURFACE		

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Sample Name: SV04__043020

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV07

PROJECT: 31-33 Wave Street	**PROJECT NO.:** 170610601	
LOCATION: Staten Island, New York	**SURFACE ELEVATION AND DATUM:** n/a	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services Corp.	**INSTALLATION DATE STARTED:** 4/29/2020	**DATE FINISHED:** 4/29/2020
INSTALLATION FOREMAN: Ron Dixon	**SAMPLE DATE STARTED:** 4/30/2020	**DATE FINISHED:** 4/30/2020
INSTALLATION EQUIPMENT: Geoprobe® 7822 DT	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
INSPECTOR: Deirdre Casey	**SAMPLER:** Luke McCartney	
POTENTIAL SAMPLE INTERFERENCES: None Observed	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 54-58°F Wind: 16-24 mph SE Precipitation: Rain/cloudy Pressure: 1015-1019 MB	

METHOD OF INSTALLATION AND PURGING:
Advance Geoprobe 7822DT to 2 feet below grade surface (bgs), install 2-inch polyethylene probe, backfill with No. 2 sand to 1 feet bgs, and sealed with hydrated bentonite to surface with hydrated bentonite.

TUBING TYPE/DIAMETER: 1/4-Inch Teflon-lined Polyethylene Tubing	**TYPE OF MATERIAL ABOVE SEAL:** Hydrated bentonite
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: None	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite
BOREHOLE DIAMETER: 2-inch	**FILTER PACK MATERIAL (Sand or Glass Beads):** No. 2 Sand

PURGE VOLUME (L):	0.067	
PURGE FLOW RATE (ML/MIN):	200	
PID AFTER PURGE (PPM):	0	
HELIUM TESTS	Pre-sampling	Post-sampling
HELIUM TEST IN BUCKET(%):	25.1%	15.5%
HELIUM TEST IN TUBE (PPM):	0.0%	0.0%
SAMPLE START TIME:	12:30	
SAMPLE STOP TIME:	14:30	
TOTAL SAMPLE TIME (MIN):	120	
REGULATOR FLOW RATE (L/MIN):	0.004435	
VOLUME OF SAMPLE (LITERS):	6	
PID AFTER SAMPLE (PPM):	0	
SAMPLE MOISTURE CONTENT:	n/a	
CAN SERIAL NUMBER:	23996	
REGULATOR SERIAL NUMBER:	6878	
CAN START VACUUM PRESS. (" HG):	-31.5	
CAN STOP VACUUM PRESS. (" HG):	-7.75	

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	**DEPTH (FEET FROM SURFACE)**	**NOTES**
SURFACE		
SURFACE		
Top of Seal	0	
Top of Pack	1	
Tube Depth	2	

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Sample Name: SV07__043020

INDOOR AIR SAMPLING LOG SHEET

Sample Number: IA09

PROJECT: 31-33 Wave Street	**PROJECT NO.:** 170610601	
LOCATION: Staten Island, New York	**SURFACE ELEVATION AND DATUM:** N/A	
SAMPLER: Luke McCartney	**SAMPLE DATE STARTED:** 4/30/2020	**DATE FINISHED:** 4/30/2020
INSPECTOR: Luke McCartney	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
POTENTIAL SAMPLE INTERFERENCES: None Observed	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):**	
	Temp:	54-58°F
	Wind:	16-24 mph SE
	Precipitation:	Rain/cloudy
	Pressure:	1015-1019 MB

METHOD OF INSTALLATION AND SAMPLING:

Langan field screened the sample location with a MiniRAE 3000 photoionization detector prior to sampling. Sample consisted of 6L Summa canister fitted with an 8-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 8-hour sample collection. The sample and flow controller were checked each hour during sampling to ensure proper operation.

SAMPLE DETAILS

HEIGHT ABOVE GROUND (FT):	3.5
PID BEFORE SAMPLE (PPM):	0.0
SAMPLE START TIME:	9:23
SAMPLE STOP TIME:	17:23
TOTAL SAMPLE TIME (MIN):	480
REGULATOR FLOW RATE (L/MIN):	0.00977
VOLUME OF SAMPLE (LITERS):	6
PID AFTER SAMPLE (PPM):	0.0
SAMPLE MOISTURE CONTENT:	n/a
CAN SERIAL NUMBER:	Y3
REGULATOR SERIAL NUMBER:	28316
CAN START VACUUM PRESS. (" HG):	-29.9
CAN STOP VACUUM PRESS. (" HG):	-8

SAMPLE LOCATION SKETCH

See Sample Location Plan

Paired with SS09_043020

NOTES

Sample Name: IA09__043020

Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

INDOOR AIR SAMPLING LOG SHEET

Sample Number: IA08

PROJECT: 31-33 Wave Street	**PROJECT NO.:** 170610601	
LOCATION: Staten Island, New York	**SURFACE ELEVATION AND DATUM:** N/A	
SAMPLER: Luke McCartney	**SAMPLE DATE STARTED:** 4/30/2020	**DATE FINISHED:** 4/30/2020
INSPECTOR: Luke McCartney	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
POTENTIAL SAMPLE INTERFERENCES: None Observed	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):**	
	Temp:	54-58°F
	Wind:	16-24 mph SE
	Precipitation:	Rain/cloudy
	Pressure:	1015-1019 MB

METHOD OF INSTALLATION AND SAMPLING:

Langan field screened the sample location with a MiniRAE 3000 photoionization detector prior to sampling. Sample consisted of 6L Summa canister fitted with an 8-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 8-hour sample collection. The sample and flow controller were checked each hour during sampling to ensure proper operation.

SAMPLE DETAILS

HEIGHT ABOVE GROUND (FT):	3.5
PID BEFORE SAMPLE (PPM):	0.0
SAMPLE START TIME:	9:12
SAMPLE STOP TIME:	17:12
TOTAL SAMPLE TIME (MIN):	480
REGULATOR FLOW RATE (L/MIN):	0.01105
VOLUME OF SAMPLE (LITERS):	6
PID AFTER SAMPLE (PPM):	0.0
SAMPLE MOISTURE CONTENT:	n/a
CAN SERIAL NUMBER:	18295
REGULATOR SERIAL NUMBER:	Y34
CAN START VACUUM PRESS. (" HG):	-30
CAN STOP VACUUM PRESS. (" HG):	-6

SAMPLE LOCATION SKETCH

See Sample Location Plan

Paired with SS08_043020

NOTES

Sample Name: IA08_042030

Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

AMBIENT AIR SAMPLING LOG SHEET

Sample Number: AA01

PROJECT: 31-33 Wave Street	**PROJECT NO.:** 170610601	
LOCATION: Staten Island, New York	**SURFACE ELEVATION AND DATUM:** N/A	
SAMPLER: Luke McCartney	**SAMPLE DATE STARTED:** 4/30/2020	**DATE FINISHED:** 4/30/2020
INSPECTOR: Luke McCartney	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
POTENTIAL SAMPLE INTERFERENCES: None Observed	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):**	
	Temp:	54-58°F
	Wind:	16-24 mph SE
	Precipitation:	Rain/cloudy
	Pressure:	1015-1019 MB

METHOD OF INSTALLATION AND SAMPLING:

Langan field screened the sample location with a MiniRAE 3000 photoionization detector prior to sampling. Sample consisted of 6L Summa canister fitted with a 2-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked each hour during sampling to ensure proper operation.

SAMPLE DETAILS

HEIGHT ABOVE GROUND (FT):	3.5
PID BEFORE SAMPLE (PPM):	0.0
SAMPLE START TIME:	12:35
SAMPLE STOP TIME:	14:31
TOTAL SAMPLE TIME (MIN):	116
REGULATOR FLOW RATE (L/MIN):	0.04393
VOLUME OF SAMPLE (LITERS):	6
PID AFTER SAMPLE (PPM):	0.0
SAMPLE MOISTURE CONTENT:	n/a
CAN SERIAL NUMBER:	15529
REGULATOR SERIAL NUMBER:	7361
CAN START VACUUM PRESS. (" HG):	-28
CAN STOP VACUUM PRESS. (" HG):	-4.25

SAMPLE LOCATION SKETCH

See Sample Location Plan

Ambient air sample was centrally located in parking area between SV04 and SV07

NOTES

Sample Name: AA01_043020

Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

APPENDIX F
LABORATORY ANALYTICAL REPORTS

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Dina Palazzolo, Ms.

Report Date: 05/11/2020
Client Project ID: 170610601
York Project (SDG) No.: 20D0776

Report Date: 05/11/2020
Client Project ID: 170610601
York Project (SDG) No.: 20D0776

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Dina Palazzolo, Ms.

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 28, 2020 and listed below. The project was identified as your project: **170610601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
20D0776-01	SB09_0-2	Soil	04/28/2020	04/28/2020
20D0776-02	SB09_4-6	Soil	04/28/2020	04/28/2020
20D0776-03	SB09_13-15	Soil	04/28/2020	04/28/2020
20D0776-04	SB05_0-2	Soil	04/28/2020	04/28/2020
20D0776-05	SB05_6-8	Soil	04/28/2020	04/28/2020
20D0776-06	SB05_18-20	Soil	04/28/2020	04/28/2020
20D0776-07	SB08_0-2	Soil	04/28/2020	04/28/2020
20D0776-08	SB08_4-6	Soil	04/28/2020	04/28/2020
20D0776-09	SB08_13-15	Soil	04/28/2020	04/28/2020
20D0776-10	SOFB_042820	Water	04/28/2020	04/28/2020

General Notes for York Project (SDG) No.: 20D0776

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 05/11/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: SB09_0-2 **York Sample ID:** 20D0776-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:30 pm	04/28/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.71	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 16:55	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*48.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.358	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0674	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0465	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0317	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**0.131**	J	ug/kg dry	0.0789	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0448	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0611	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0524	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.119	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0767	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0445	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0764	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.107	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.107	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**0.211**	J	ug/kg dry	0.0940	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0478	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT

Sample Information

Client Sample ID: SB09_0-2 **York Sample ID:** 20D0776-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:30 pm	04/28/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0504	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0524	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0675	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0262	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.187	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:10	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*62.8 %*		*25-150*
Surrogate: M5PFHxA	*65.3 %*		*25-150*
Surrogate: M4PFHpA	*73.4 %*		*25-150*
Surrogate: M3PFHxS	*66.9 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*76.2 %*		*25-150*
Surrogate: M6PFDA	*80.0 %*		*25-150*
Surrogate: M7PFUdA	*67.0 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*63.0 %*		*25-150*
Surrogate: M2PFTeDA	*59.8 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*93.8 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*67.3 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*66.6 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*59.0 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*74.3 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*81.2 %*		*25-150*
Surrogate: M2-6:2 FTS	*170 %*	PFSu-H	*25-150*
Surrogate: M2-8:2 FTS	*206 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*80.3 %*		*25-150*

Sample Information

Client Sample ID: SB09_4-6 **York Sample ID:** 20D0776-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:35 pm	04/28/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.52	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 14:20	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.344	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0647	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0447	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0304	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.140**	J	ug/kg dry	0.0758	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0430	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0587	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0503	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.114	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0736	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0427	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0733	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.102	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.102	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0902	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0458	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT

Sample Information

Client Sample ID: SB09_4-6 **York Sample ID:** 20D0776-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:35 pm	04/28/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0484	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0503	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0648	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0251	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.179	0.491	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:34	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*69.1 %*	*25-150*
Surrogate: M5PFHxA	*71.9 %*	*25-150*
Surrogate: M4PFHpA	*78.2 %*	*25-150*
Surrogate: M3PFHxS	*72.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*79.1 %*	*25-150*
Surrogate: M6PFDA	*82.6 %*	*25-150*
Surrogate: M7PFUdA	*71.5 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*70.1 %*	*25-150*
Surrogate: M2PFTeDA	*67.9 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*102 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*72.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*71.3 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*57.6 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*72.3 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*72.8 %*	*25-150*
Surrogate: M2-6:2 FTS	*99.7 %*	*25-150*
Surrogate: M2-8:2 FTS	*122 %*	*25-150*
Surrogate: M9PFNA	*84.9 %*	*25-150*

Sample Information

Client Sample ID: SB09_13-15 **York Sample ID:** 20D0776-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:40 pm	04/28/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.35	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 14:38	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*46.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.383	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0720	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0497	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0339	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.401**	J	ug/kg dry	0.0844	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0479	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0654	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0560	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.127	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0820	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0475	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0817	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.114	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.114	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.100	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0510	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT

Sample Information

Client Sample ID: SB09_13-15 **York Sample ID:** 20D0776-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:40 pm	04/28/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0539	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0560	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0721	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0280	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.200	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 04:59	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*61.8 %*		*25-150*
Surrogate: M5PFHxA	*62.8 %*		*25-150*
Surrogate: M4PFHpA	*68.2 %*		*25-150*
Surrogate: M3PFHxS	*63.9 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*70.2 %*		*25-150*
Surrogate: M6PFDA	*75.3 %*		*25-150*
Surrogate: M7PFUdA	*65.0 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*61.5 %*		*25-150*
Surrogate: M2PFTeDA	*66.1 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*90.5 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*62.7 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*61.8 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*60.2 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*73.8 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*90.6 %*		*25-150*
Surrogate: M2-6:2 FTS	*139 %*		*25-150*
Surrogate: M2-8:2 FTS	*259 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*76.6 %*		*25-150*

Sample Information

Client Sample ID: SB05_0-2 **York Sample ID:** 20D0776-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:10 pm	04/28/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.80	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 14:55	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.366	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**0.165**	J	ug/kg dry	0.0690	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**0.0863**	J	ug/kg dry	0.0476	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
355-46-4	*** Perfluorohexanesulfonic acid (PFHxS)**	**0.0411**	J	ug/kg dry	0.0325	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.372**	J	ug/kg dry	0.0808	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**5.30**		ug/kg dry	0.0459	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
375-95-1	*** Perfluorononanoic acid (PFNA)**	**0.0952**	J	ug/kg dry	0.0626	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
335-76-2	*** Perfluorodecanoic acid (PFDA)**	**0.179**	J	ug/kg dry	0.0536	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
2058-94-8	*** Perfluoroundecanoic acid (PFUnA)**	**0.126**	J	ug/kg dry	0.122	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
307-55-1	*** Perfluorododecanoic acid (PFDoA)**	**0.0873**	J	ug/kg dry	0.0785	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
72629-94-8	*** Perfluorotridecanoic acid (PFTrDA)**	**0.0689**	J	ug/kg dry	0.0455	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0782	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.109	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.109	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
2706-90-3	*** Perfluoropentanoic acid (PFPeA)**	**0.369**	J	ug/kg dry	0.0962	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
754-91-6	*** Perfluoro-1-octanesulfonamide (FOSA)**	**0.0541**	J	ug/kg dry	0.0489	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT

Sample Information

Client Sample ID: SB05_0-2 **York Sample ID:** 20D0776-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:10 pm	04/28/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0516	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
335-77-3	*** Perfluoro-1-decanesulfonic acid (PFDS)**	**0.0556**	J	ug/kg dry	0.0536	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0691	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0268	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.191	0.523	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 05:24	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*71.6 %*		*25-150*
Surrogate: M5PFHxA	*74.7 %*		*25-150*
Surrogate: M4PFHpA	*77.1 %*		*25-150*
Surrogate: M3PFHxS	*74.7 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*84.4 %*		*25-150*
Surrogate: M6PFDA	*85.3 %*		*25-150*
Surrogate: M7PFUdA	*71.8 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*68.9 %*		*25-150*
Surrogate: M2PFTeDA	*66.6 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*108 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*67.2 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*73.5 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*61.5 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*93.4 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*94.2 %*		*25-150*
Surrogate: M2-6:2 FTS	*309 %*	PFSu-H	*25-150*
Surrogate: M2-8:2 FTS	*300 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*84.9 %*		*25-150*

Sample Information

Client Sample ID: SB05_6-8 **York Sample ID:** 20D0776-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:25 pm	04/28/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.62	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 15:29	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*46.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.381	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0717	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0495	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0337	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.136**	J	ug/kg dry	0.0840	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**0.213**	J	ug/kg dry	0.0477	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0651	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0557	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.127	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0816	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0473	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0813	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.114	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.113	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.100	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0508	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT

Sample Information

Client Sample ID: SB05_6-8 **York Sample ID:** 20D0776-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:25 pm	04/28/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0536	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0557	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0718	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0279	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.199	0.544	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:14	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*71.3 %*	*25-150*
Surrogate: M5PFHxA	*75.2 %*	*25-150*
Surrogate: M4PFHpA	*79.6 %*	*25-150*
Surrogate: M3PFHxS	*75.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*79.2 %*	*25-150*
Surrogate: M6PFDA	*83.7 %*	*25-150*
Surrogate: M7PFUdA	*76.3 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*74.5 %*	*25-150*
Surrogate: M2PFTeDA	*66.0 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*108 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*73.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*72.2 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*61.4 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*73.1 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*73.1 %*	*25-150*
Surrogate: M2-6:2 FTS	*90.0 %*	*25-150*
Surrogate: M2-8:2 FTS	*102 %*	*25-150*
Surrogate: M9PFNA	*84.6 %*	*25-150*

Sample Information

Client Sample ID: **SB05_18-20** **York Sample ID:** **20D0776-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:45 pm	04/28/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.71	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 15:47	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*46.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.358	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0674	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0465	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0317	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.0871**	J	ug/kg dry	0.0789	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0448	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0611	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0524	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.119	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0767	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0445	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0764	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.107	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.107	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0940	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0477	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT

Sample Information

Client Sample ID: SB05_18-20 **York Sample ID:** 20D0776-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 1:45 pm	04/28/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0504	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0524	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0675	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0262	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.187	0.511	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 06:38	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*74.3 %*	*25-150*
Surrogate: M5PFHxA	*74.6 %*	*25-150*
Surrogate: M4PFHpA	*84.1 %*	*25-150*
Surrogate: M3PFHxS	*76.3 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*79.7 %*	*25-150*
Surrogate: M6PFDA	*79.9 %*	*25-150*
Surrogate: M7PFUdA	*74.9 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*75.8 %*	*25-150*
Surrogate: M2PFTeDA	*71.7 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*114 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*75.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*77.7 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*65.7 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*68.9 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*70.7 %*	*25-150*
Surrogate: M2-6:2 FTS	*84.6 %*	*25-150*
Surrogate: M2-8:2 FTS	*84.0 %*	*25-150*
Surrogate: M9PFNA	*87.7 %*	*25-150*

Sample Information

Client Sample ID: SB08_0-2 **York Sample ID:** 20D0776-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 2:50 pm	04/28/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.90	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 16:04	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.360	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0679	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0468	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0319	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.100**	J	ug/kg dry	0.0795	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**0.0563**	J	ug/kg dry	0.0451	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0616	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0527	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.120	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0772	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0448	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0769	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.107	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.107	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0946	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0481	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT

Sample Information

Client Sample ID: SB08_0-2 **York Sample ID:** 20D0776-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 2:50 pm	04/28/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0508	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0527	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0680	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0264	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.188	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:03	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*69.1 %*	*25-150*
Surrogate: M5PFHxA	*70.1 %*	*25-150*
Surrogate: M4PFHpA	*78.9 %*	*25-150*
Surrogate: M3PFHxS	*72.0 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*80.0 %*	*25-150*
Surrogate: M6PFDA	*83.6 %*	*25-150*
Surrogate: M7PFUdA	*76.0 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*72.3 %*	*25-150*
Surrogate: M2PFTeDA	*62.5 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*107 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*73.6 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*69.9 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*64.8 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*78.0 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*77.4 %*	*25-150*
Surrogate: M2-6:2 FTS	*112 %*	*25-150*
Surrogate: M2-8:2 FTS	*128 %*	*25-150*
Surrogate: M9PFNA	*88.8 %*	*25-150*

Sample Information

Client Sample ID: **SB08_4-6** **York Sample ID:** **20D0776-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 2:55 pm	04/28/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.90	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 16:21	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.353	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0665	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0459	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0313	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.0779	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**0.193**	J	ug/kg dry	0.0442	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0604	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0517	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.117	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0757	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0439	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0754	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.105	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.105	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0928	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0471	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT

Sample Information

Client Sample ID: SB08_4-6 **York Sample ID:** 20D0776-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 2:55 pm	04/28/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0498	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0517	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0666	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0258	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.184	0.505	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:28	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*68.5 %*	*25-150*
Surrogate: M5PFHxA	*72.1 %*	*25-150*
Surrogate: M4PFHpA	*81.7 %*	*25-150*
Surrogate: M3PFHxS	*72.9 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*79.3 %*	*25-150*
Surrogate: M6PFDA	*78.1 %*	*25-150*
Surrogate: M7PFUdA	*74.9 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*67.9 %*	*25-150*
Surrogate: M2PFTeDA	*61.6 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*105 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*73.5 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*72.6 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*66.4 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*74.5 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*73.5 %*	*25-150*
Surrogate: M2-6:2 FTS	*103 %*	*25-150*
Surrogate: M2-8:2 FTS	*76.6 %*	*25-150*
Surrogate: M9PFNA	*84.7 %*	*25-150*

Sample Information

Client Sample ID: SB08_13-15 **York Sample ID:** 20D0776-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 3:00 pm	04/28/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.52	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 16:37	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.493	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0928	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0641	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0436	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.109	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**0.162**	J	ug/kg dry	0.0617	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0842	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0721	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.164	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.106	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0612	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.105	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.147	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.147	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.129	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0657	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT

Sample Information

Client Sample ID: SB08_13-15 **York Sample ID:** 20D0776-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Soil	April 28, 2020 3:00 pm	04/28/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0694	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0721	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0929	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0360	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.257	0.704	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 07:53	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*78.1 %*	*25-150*
Surrogate: M5PFHxA	*78.7 %*	*25-150*
Surrogate: M4PFHpA	*86.8 %*	*25-150*
Surrogate: M3PFHxS	*79.7 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*82.4 %*	*25-150*
Surrogate: M6PFDA	*75.6 %*	*25-150*
Surrogate: M7PFUdA	*65.6 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*62.3 %*	*25-150*
Surrogate: M2PFTeDA	*52.2 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*116 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*76.0 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*78.3 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*59.2 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*64.0 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*61.0 %*	*25-150*
Surrogate: M2-6:2 FTS	*89.8 %*	*25-150*
Surrogate: M2-8:2 FTS	*79.7 %*	*25-150*
Surrogate: M9PFNA	*87.9 %*	*25-150*

Sample Information

Client Sample ID: SOFB_042820 **York Sample ID:** 20D0776-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Water	April 28, 2020 3:10 pm	04/28/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	05/01/2020 07:31	05/05/2020 14:46	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*60.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.294	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
307-24-4	* **Perfluorohexanoic acid (PFHxA)**	**0.647**	J	ng/L	0.471	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.635	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.281	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	0.531	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.292	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	0.574	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	0.524	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	0.657	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.777	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.37	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.531	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	0.529	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	0.557	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**0.842**	J	ng/L	0.452	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.296	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT

Sample Information

Client Sample ID: SOFB_042820 **York Sample ID:** 20D0776-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0776	170610601	Water	April 28, 2020 3:10 pm	04/28/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.415	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	0.574	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	PF-CCV-L	ng/L	0.492	5.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	PF-CCV-L	ng/L	0.399	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**2.48**	B	ng/L	1.63	2.00	1	EPA 537m Certifications:	04/30/2020 15:31	05/06/2020 06:20	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*69.0 %*	*25-150*
Surrogate: M5PFHxA	*62.1 %*	*25-150*
Surrogate: M4PFHpA	*65.6 %*	*25-150*
Surrogate: M3PFHxS	*66.1 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*59.7 %*	*25-150*
Surrogate: M6PFDA	*60.0 %*	*25-150*
Surrogate: M7PFUdA	*45.5 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*36.4 %*	*25-150*
Surrogate: M2PFTeDA	*17.8 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*98.6 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*63.3 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*65.0 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*68.0 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*47.8 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*44.0 %*	*25-150*
Surrogate: M2-6:2 FTS	*49.4 %*	*25-150*
Surrogate: M2-8:2 FTS	*54.7 %*	*25-150*
Surrogate: M9PFNA	*60.2 %*	*25-150*

Analytical Batch Summary

Batch ID: BD01331 **Preparation Method:** SPE Ext-PFAS-EPA 537.1M **Prepared By:** KT

YORK Sample ID	Client Sample ID	Preparation Date
20D0776-10	SOFB_042820	04/30/20
BD01331-BLK1	Blank	04/30/20
BD01331-BS1	LCS	04/30/20

Batch ID: BE00002 **Preparation Method:** EPA 3550C **Prepared By:** LM

YORK Sample ID	Client Sample ID	Preparation Date
20D0776-01	SB09_0-2	05/01/20
20D0776-02	SB09_4-6	05/01/20
20D0776-03	SB09_13-15	05/01/20
20D0776-04	SB05_0-2	05/01/20
20D0776-05	SB05_6-8	05/01/20
20D0776-06	SB05_18-20	05/01/20
20D0776-07	SB08_0-2	05/01/20
20D0776-08	SB08_4-6	05/01/20
20D0776-09	SB08_13-15	05/01/20
BE00002-BLK1	Blank	05/01/20
BE00002-BS1	LCS	05/01/20
BE00002-MS1	Matrix Spike	05/01/20
BE00002-MSD1	Matrix Spike Dup	05/01/20

Batch ID: BE00004 **Preparation Method:** EPA 3535A **Prepared By:** CTD

YORK Sample ID	Client Sample ID	Preparation Date
20D0776-10	SOFB_042820	05/01/20
BE00004-BLK1	Blank	05/01/20
BE00004-BS1	LCS	05/01/20

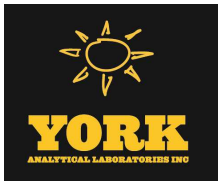
Batch ID: BE00136 **Preparation Method:** SPE PFAS Extraction-Soil-EPA 537m **Prepared By:** KT

YORK Sample ID	Client Sample ID	Preparation Date
20D0776-01	SB09_0-2	05/05/20
20D0776-02	SB09_4-6	05/05/20
20D0776-03	SB09_13-15	05/05/20
20D0776-04	SB05_0-2	05/05/20
20D0776-05	SB05_6-8	05/05/20
20D0776-06	SB05_18-20	05/05/20
20D0776-07	SB08_0-2	05/05/20
20D0776-08	SB08_4-6	05/05/20
20D0776-09	SB08_13-15	05/05/20
BE00136-BLK1	Blank	05/05/20
BE00136-BS1	LCS	05/05/20

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc.

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00002 - EPA 3550C												
Blank (BE00002-BLK1)	Blank								Prepared: 05/01/2020 Analyzed: 05/04/2020			
1,4-Dioxane		ND	9.90	ug/kg								
Surrogate: 1,4-Dioxane-d8		*248*		*"*	*495*		*50.0*	*39-83.1*				
LCS (BE00002-BS1)	LCS								Prepared: 05/01/2020 Analyzed: 05/04/2020			
1,4-Dioxane		425	9.90	ug/kg	495		85.8	40-130				
Surrogate: 1,4-Dioxane-d8		*277*		*"*	*495*		*56.0*	*39-83.1*				
Matrix Spike (BE00002-MS1)	Matrix Spike	*Source sample: 20D0776-09 (SB08_13-15)							Prepared: 05/01/2020 Analyzed: 05/04/2020			
1,4-Dioxane		218	9.90	ug/kg	495	ND	44.0	40-130				
Surrogate: 1,4-Dioxane-d8		*228*		*"*	*495*		*46.0*	*40-130*				
Matrix Spike Dup (BE00002-M	Matrix Spike Dup	*Source sample: 20D0776-09 (SB08_13-15)							Prepared: 05/01/2020 Analyzed: 05/04/2020			
1,4-Dioxane		218	9.90	ug/kg	495	ND	44.0	40-130		0.00	30	
Surrogate: 1,4-Dioxane-d8		*228*		*"*	*495*		*46.0*	*40-130*				
Batch BE00004 - EPA 3535A												
Blank (BE00004-BLK1)	Blank								Prepared: 05/01/2020 Analyzed: 05/05/2020			
1,4-Dioxane		ND	0.200	ug/L								
Surrogate: 1,4-Dioxane-d8		*3.80*		*"*	*5.00*		*76.0*	*36.6-118*				
LCS (BE00004-BS1)	LCS								Prepared: 05/01/2020 Analyzed: 05/05/2020			
1,4-Dioxane		5.00	0.200	ug/L	5.00		100	50-130				
Surrogate: 1,4-Dioxane-d8		*3.40*		*"*	*5.00*		*68.0*	*36.6-118*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

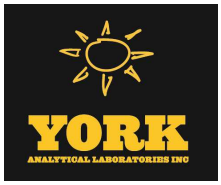
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD01331 - SPE Ext-PFAS-EPA 537.1M											
Blank (BD01331-BLK1) Blank									Prepared: 04/30/2020 Analyzed: 05/06/2020		
Perfluorobutanesulfonic acid (PFBS)	ND	2.00	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	0.862	2.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	0.352	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	5.00	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	2.00	"								
Perfluoro-n-butanoic acid (PFBA)	3.30	2.00	"								
Surrogate: M3PFBS	*51.1*		"	*74.3*		*68.8*	*25-150*				
Surrogate: M5PFHxA	*50.4*		"	*80.0*		*63.0*	*25-150*				
Surrogate: M4PFHpA	*54.1*		"	*80.0*		*67.6*	*25-150*				
Surrogate: M3PFHxS	*52.1*		"	*75.7*		*68.9*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*52.3*		"	*80.0*		*65.4*	*25-150*				
Surrogate: M6PFDA	*51.2*		"	*80.0*		*64.0*	*25-150*				
Surrogate: M7PFUdA	*41.8*		"	*80.0*		*52.2*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*40.2*		"	*80.0*		*50.3*	*25-150*				
Surrogate: M2PFTeDA	*34.1*		"	*80.0*		*42.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*58.2*		"	*80.0*		*72.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*51.7*		"	*76.6*		*67.6*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*46.9*		"	*80.0*		*58.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*57.0*		"	*80.0*		*71.2*	*10-150*				
Surrogate: d3-N-MeFOSAA	*41.7*		"	*80.0*		*52.1*	*25-150*				
Surrogate: d5-N-EtFOSAA	*36.5*		"	*80.0*		*45.6*	*25-150*				
Surrogate: M2-6:2 FTS	*41.2*		"	*75.9*		*54.3*	*25-150*				
Surrogate: M2-8:2 FTS	*44.9*		"	*76.6*		*58.6*	*25-150*				
Surrogate: M9PFNA	*53.8*		"	*80.0*		*67.3*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD01331 - SPE Ext-PFAS-EPA 537.1M											
LCS (BD01331-BS1) LCS									Prepared: 04/30/2020 Analyzed: 05/06/2020		
Perfluorobutanesulfonic acid (PFBS)	60.7	2.00	ng/L	70.8		85.7	50-130				
Perfluorohexanoic acid (PFHxA)	71.4	2.00	"	80.0		89.2	50-130				
Perfluoroheptanoic acid (PFHpA)	68.3	2.00	"	80.0		85.4	50-130				
Perfluorohexanesulfonic acid (PFHxS)	51.6	2.00	"	59.2		87.2	50-130				
Perfluorooctanoic acid (PFOA)	70.4	2.00	"	80.0		88.0	50-130				
Perfluorooctanesulfonic acid (PFOS)	52.6	2.00	"	58.4		90.1	50-130				
Perfluorononanoic acid (PFNA)	61.4	2.00	"	76.8		80.0	50-130				
Perfluorodecanoic acid (PFDA)	69.4	2.00	"	80.0		86.7	50-130				
Perfluoroundecanoic acid (PFUnA)	68.1	2.00	"	80.0		85.2	50-130				
Perfluorododecanoic acid (PFDoA)	60.6	2.00	"	80.0		75.7	50-130				
Perfluorotridecanoic acid (PFTrDA)	65.1	2.00	"	80.0		81.3	50-130				
Perfluorotetradecanoic acid (PFTA)	69.1	2.00	"	80.0		86.4	50-130				
N-MeFOSAA	62.6	2.00	"	80.0		78.3	50-130				
N-EtFOSAA	67.7	2.00	"	80.0		84.6	50-130				
Perfluoropentanoic acid (PFPeA)	68.8	2.00	"	80.0		86.0	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	66.6	2.00	"	80.0		83.2	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	71.2	2.00	"	79.6		89.4	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	63.3	2.00	"	77.2		82.0	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	71.5	5.00	"	76.0		94.1	50-130				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	48.2	2.00	"	76.8		62.8	50-130				
Perfluoro-n-butanoic acid (PFBA)	74.4	2.00	"	80.0		92.9	50-130				
Surrogate: M3PFBS	*56.2*		"	*74.3*		*75.6*	*25-150*				
Surrogate: M5PFHxA	*55.2*		"	*80.0*		*69.0*	*25-150*				
Surrogate: M4PFHpA	*56.0*		"	*80.0*		*70.0*	*25-150*				
Surrogate: M3PFHxS	*55.0*		"	*75.7*		*72.7*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*52.8*		"	*80.0*		*66.1*	*25-150*				
Surrogate: M6PFDA	*54.0*		"	*80.0*		*67.4*	*25-150*				
Surrogate: M7PFUdA	*42.1*		"	*80.0*		*52.6*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*40.7*		"	*80.0*		*50.8*	*25-150*				
Surrogate: M2PFTeDA	*33.6*		"	*80.0*		*42.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*86.9*		"	*80.0*		*109*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*53.7*		"	*76.6*		*70.1*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*57.8*		"	*80.0*		*72.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*62.1*		"	*80.0*		*77.6*	*10-150*				
Surrogate: d3-N-MeFOSAA	*44.5*		"	*80.0*		*55.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*39.6*		"	*80.0*		*49.5*	*25-150*				
Surrogate: M2-6:2 FTS	*45.3*		"	*75.9*		*59.7*	*25-150*				
Surrogate: M2-8:2 FTS	*46.5*		"	*76.6*		*60.7*	*25-150*				
Surrogate: M9PFNA	*54.8*		"	*80.0*		*68.4*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00136 - SPE PFAS Extraction-Soil-EPA 537m											
Blank (BE00136-BLK1) Blank									Prepared: 05/05/2020 Analyzed: 05/09/2020		
Perfluorobutanesulfonic acid (PFBS)	ND	0.490	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.490	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.490	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.490	"								
Perfluorooctanoic acid (PFOA)	ND	0.490	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.490	"								
Perfluorononanoic acid (PFNA)	ND	0.490	"								
Perfluorodecanoic acid (PFDA)	ND	0.490	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.490	"								
Perfluorododecanoic acid (PFDoA)	ND	0.490	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.490	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.490	"								
N-MeFOSAA	ND	0.490	"								
N-EtFOSAA	ND	0.490	"								
Perfluoropentanoic acid (PFPeA)	ND	0.490	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.490	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.490	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.490	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	0.490	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	0.490	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.490	"								
Surrogate: M3PFBS	*3.67*		"	*4.55*		*80.8*	*25-150*				
Surrogate: M5PFHxA	*3.94*		"	*4.90*		*80.6*	*25-150*				
Surrogate: M4PFHpA	*4.15*		"	*4.90*		*84.8*	*25-150*				
Surrogate: M3PFHxS	*3.81*		"	*4.63*		*82.2*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*4.22*		"	*4.90*		*86.2*	*25-150*				
Surrogate: M6PFDA	*4.06*		"	*4.90*		*83.0*	*25-150*				
Surrogate: M7PFUdA	*3.92*		"	*4.90*		*80.0*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*4.28*		"	*4.90*		*87.5*	*25-150*				
Surrogate: M2PFTeDA	*3.99*		"	*4.90*		*81.5*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.63*		"	*4.90*		*115*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*4.01*		"	*4.69*		*85.7*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.93*		"	*4.90*		*80.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.63*		"	*4.90*		*74.1*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.82*		"	*4.90*		*77.9*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.00*		"	*4.90*		*81.7*	*25-150*				
Surrogate: M2-6:2 FTS	*4.34*		"	*4.65*		*93.4*	*25-150*				
Surrogate: M2-8:2 FTS	*4.17*		"	*4.69*		*89.0*	*25-150*				
Surrogate: M9PFNA	*4.63*		"	*4.90*		*94.5*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00136 - SPE PFAS Extraction-Soil-EPA 537m											
LCS (BE00136-BS1) LCS									Prepared: 05/05/2020 Analyzed: 05/09/2020		
Perfluorobutanesulfonic acid (PFBS)	4.24	0.481	ug/kg wet	4.26		99.6	50-130				
Perfluorohexanoic acid (PFHxA)	4.52	0.481	"	4.81		93.9	50-130				
Perfluoroheptanoic acid (PFHpA)	4.23	0.481	"	4.81		87.9	50-130				
Perfluorohexanesulfonic acid (PFHxS)	3.40	0.481	"	3.56		95.6	50-130				
Perfluorooctanoic acid (PFOA)	4.25	0.481	"	4.81		88.3	50-130				
Perfluorooctanesulfonic acid (PFOS)	3.28	0.481	"	3.51		93.5	50-130				
Perfluorononanoic acid (PFNA)	4.04	0.481	"	4.62		87.5	50-130				
Perfluorodecanoic acid (PFDA)	4.48	0.481	"	4.81		93.1	50-130				
Perfluoroundecanoic acid (PFUnA)	4.40	0.481	"	4.81		91.5	50-130				
Perfluorododecanoic acid (PFDoA)	4.48	0.481	"	4.81		93.2	50-130				
Perfluorotridecanoic acid (PFTrDA)	4.38	0.481	"	4.81		91.0	50-130				
Perfluorotetradecanoic acid (PFTA)	4.51	0.481	"	4.81		93.9	50-130				
N-MeFOSAA	4.62	0.481	"	4.81		96.0	50-130				
N-EtFOSAA	4.45	0.481	"	4.81		92.5	50-130				
Perfluoropentanoic acid (PFPeA)	4.44	0.481	"	4.81		92.4	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	4.93	0.481	"	4.81		103	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.84	0.481	"	4.78		101	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	4.02	0.481	"	4.64		86.5	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	3.99	0.481	"	4.57		87.3	50-130				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	5.48	0.481	"	4.62		119	50-130				
Perfluoro-n-butanoic acid (PFBA)	4.57	0.481	"	4.81		95.1	50-130				
Surrogate: M3PFBS	*3.24*		"	*4.47*		*72.6*	*25-150*				
Surrogate: M5PFHxA	*3.47*		"	*4.81*		*72.2*	*25-150*				
Surrogate: M4PFHpA	*3.71*		"	*4.81*		*77.2*	*25-150*				
Surrogate: M3PFHxS	*3.38*		"	*4.55*		*74.2*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.74*		"	*4.81*		*77.7*	*25-150*				
Surrogate: M6PFDA	*3.61*		"	*4.81*		*75.1*	*25-150*				
Surrogate: M7PFUdA	*3.44*		"	*4.81*		*71.6*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*3.47*		"	*4.81*		*72.1*	*25-150*				
Surrogate: M2PFTeDA	*3.41*		"	*4.81*		*70.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.04*		"	*4.81*		*105*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.44*		"	*4.60*		*74.8*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.54*		"	*4.81*		*73.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.16*		"	*4.81*		*65.6*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.51*		"	*4.81*		*73.0*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.22*		"	*4.81*		*66.9*	*25-150*				
Surrogate: M2-6:2 FTS	*3.82*		"	*4.56*		*83.8*	*25-150*				
Surrogate: M2-8:2 FTS	*3.59*		"	*4.61*		*77.9*	*25-150*				
Surrogate: M9PFNA	*4.06*		"	*4.81*		*84.3*	*25-150*				

Sample and Data Qualifiers Relating to This Work Order

PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-CCV-L	The CCV recovery was slightly below acceptable limits for the qualified compound. However, sample results are not biased low because results are corrected for isotope recovery.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 20D0776

Page 1 of ____

YOUR Information	Report To:	Invoice To:
Company: Langan	Company:	Company: Same
Address: 360 West 31st Street New York NY 10001	Address:	Address: Same
Phone: 212 479 5400	Phone:	Phone: same
Contact: Kim Semon	Contact: Dina Palazzolo	Contact: same
E-mail: KSemon@langan.com	E-mail: DPalazzolo@langan.com	E-mail: Same

YOUR Project Number: 170610601

YOUR Project Name: 475 Bay Street

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)
Deirdre Casey

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil ; Other

Samples From
New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB09_0-2	S	4/28/20 1330	VOC, SVOC, PCB, Pest, Herb, TAL Metals (cyanide, hexavalent chromium) PFAS & 1,4-dioxane	4 VOCs, 1 SOC 1 407
SB09_4-6	S	4/28/20 1335		
SB09_13-15	S	4/28/20 1340		
SB05_0-2	S	4/28/20 1310		
SB05_6-8	S	4/28/20 1325		
SB05_18-20	S	4/28/20 1345		
SB08_0-2	S	4/28/20 1450		
~~SB08_6-8~~ SB08_4-6	S	4/28/20 1455		
SB08_13-15	S	4/28/20 1500		
SOFB01_042820	QA/QC	4/28/20 1510		4 (L), 3 VOA, 1 1000, 4 202

Comments:
Low volume SB08 (0-2, 6-4, 13-15)

Preservation: (check all that apply)
HCl X MeOH X HNO3 X H2SO4 ___ NaOH X ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Deirdre Casey Langan	4/28/20 1520	E Sylvia	4/28/20	E Sylvia	4/28/20 1900
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				TC Mahler	4/28/20 1900 / 2.6 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Dina Palazzolo, Ms.

Report Date: 05/12/2020
Client Project ID: 170610601
York Project (SDG) No.: 20D0818

Report Date: 05/12/2020
Client Project ID: 170610601
York Project (SDG) No.: 20D0818

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Dina Palazzolo, Ms.

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 29, 2020 and listed below. The project was identified as your project: **170610601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
20D0818-01	SB04_0-2	Soil	04/29/2020	04/29/2020
20D0818-03	SB04_14-16	Soil	04/29/2020	04/29/2020
20D0818-04	SB04_18-20	Soil	04/29/2020	04/29/2020
20D0818-05	SB06_0-2	Soil	04/29/2020	04/29/2020
20D0818-06	SB06_5-7	Soil	04/29/2020	04/29/2020
20D0818-07	SB06_12-14	Soil	04/29/2020	04/29/2020
20D0818-09	SB07_0-2	Soil	04/29/2020	04/29/2020
20D0818-10	SB07_8-10	Soil	04/29/2020	04/29/2020
20D0818-11	SB07_18-20	Soil	04/29/2020	04/29/2020
20D0818-12	SODUP01_042920	Soil	04/29/2020	04/29/2020

General Notes for York Project (SDG) No.: 20D0818

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 05/12/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: SB04_0-2 **York Sample ID:** 20D0818-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 2:10 pm	04/29/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.71	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 17:12	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*40.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.365	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**0.148**	J	ug/kg dry	0.0687	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**0.200**	J	ug/kg dry	0.0474	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0323	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.311**	J	ug/kg dry	0.0804	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**2.48**		ug/kg dry	0.0456	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
375-95-1	*** Perfluorononanoic acid (PFNA)**	**0.145**	J	ug/kg dry	0.0623	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
335-76-2	*** Perfluorodecanoic acid (PFDA)**	**0.153**	J	ug/kg dry	0.0533	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
2058-94-8	*** Perfluoroundecanoic acid (PFUnA)**	**0.183**	J	ug/kg dry	0.121	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
307-55-1	*** Perfluorododecanoic acid (PFDoA)**	**0.125**	J	ug/kg dry	0.0781	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
72629-94-8	*** Perfluorotridecanoic acid (PFTrDA)**	**0.0869**	J	ug/kg dry	0.0453	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
376-06-7	*** Perfluorotetradecanoic acid (PFTA)**	**0.0856**	J	ug/kg dry	0.0778	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.109	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
2991-50-6	*** N-EtFOSAA**	**0.114**	J	ug/kg dry	0.109	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
2706-90-3	*** Perfluoropentanoic acid (PFPeA)**	**0.118**	J	ug/kg dry	0.0958	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0487	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT

Sample Information

Client Sample ID: SB04_0-2 **York Sample ID:** 20D0818-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 2:10 pm	04/29/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0514	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
335-77-3	*** Perfluoro-1-decanesulfonic acid (PFDS)**	**0.0745**	J	ug/kg dry	0.0533	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0688	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
39108-34-4	*** 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)**	**0.0308**	J	ug/kg dry	0.0267	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**1.28**		ug/kg dry	0.190	0.521	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 14:23	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*58.5 %*		*25-150*
Surrogate: M5PFHxA	*55.8 %*		*25-150*
Surrogate: M4PFHpA	*73.3 %*		*25-150*
Surrogate: M3PFHxS	*61.9 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*66.2 %*		*25-150*
Surrogate: M6PFDA	*66.6 %*		*25-150*
Surrogate: M7PFUdA	*62.4 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*52.5 %*		*25-150*
Surrogate: M2PFTeDA	*49.0 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*76.1 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*61.0 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*53.8 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*40.9 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*85.7 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*87.4 %*		*25-150*
Surrogate: M2-6:2 FTS	*279 %*	PFSu-H	*25-150*
Surrogate: M2-8:2 FTS	*304 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*68.6 %*		*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.8**		%	0.100	1	SM 2540G Certifications: CTDOH	04/30/2020 08:57	04/30/2020 13:00	STN

Sample Information

Client Sample ID: SB04_14-16 **York Sample ID:** 20D0818-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 2:20 pm	04/29/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.52	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 17:29	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*46.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.369	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
307-24-4	* **Perfluorohexanoic acid (PFHxA)**	**0.0849**	J	ug/kg dry	0.0695	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
375-85-9	* **Perfluoroheptanoic acid (PFHpA)**	**0.119**	J	ug/kg dry	0.0480	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0327	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**0.104**	J	ug/kg dry	0.0814	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0462	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0631	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0540	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.123	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0791	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0459	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0788	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.110	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.110	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0969	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0492	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT

Sample Information

Client Sample ID: SB04_14-16 **York Sample ID:** 20D0818-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 2:20 pm	04/29/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0520	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0540	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0696	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0270	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**0.214**	J	ug/kg dry	0.193	0.527	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:02	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*68.9 %*	*25-150*
Surrogate: M5PFHxA	*66.6 %*	*25-150*
Surrogate: M4PFHpA	*94.0 %*	*25-150*
Surrogate: M3PFHxS	*72.7 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*73.9 %*	*25-150*
Surrogate: M6PFDA	*76.0 %*	*25-150*
Surrogate: M7PFUdA	*78.0 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*74.4 %*	*25-150*
Surrogate: M2PFTeDA	*75.2 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*91.7 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*74.0 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*66.1 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*70.0 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*79.9 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*87.5 %*	*25-150*
Surrogate: M2-6:2 FTS	*77.4 %*	*25-150*
Surrogate: M2-8:2 FTS	*92.9 %*	*25-150*
Surrogate: M9PFNA	*81.3 %*	*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.3**		%	0.100	1	SM 2540G Certifications: CTDOH	04/30/2020 08:57	04/30/2020 13:00	STN

Sample Information

Client Sample ID: SB04_18-20 **York Sample ID:** 20D0818-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 2:25 pm	04/29/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.80	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 17:46	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*40.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.590	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**0.197**	J	ug/kg dry	0.111	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**0.232**	J	ug/kg dry	0.0767	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0523	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.340**	J	ug/kg dry	0.130	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0739	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.101	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0864	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.196	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.126	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0734	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.126	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.176	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.176	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.155	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0788	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT

Sample Information

Client Sample ID: SB04_18-20 **York Sample ID:** 20D0818-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 2:25 pm	04/29/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0831	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0864	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.111	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0432	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**0.591**	J	ug/kg dry	0.308	0.843	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:27	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*57.5 %*		*25-150*
Surrogate: M5PFHxA	*54.1 %*		*25-150*
Surrogate: M4PFHpA	*75.5 %*		*25-150*
Surrogate: M3PFHxS	*61.6 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*62.4 %*		*25-150*
Surrogate: M6PFDA	*69.9 %*		*25-150*
Surrogate: M7PFUdA	*64.0 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*61.1 %*		*25-150*
Surrogate: M2PFTeDA	*60.7 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*75.3 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*61.6 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*52.5 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*58.4 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*83.4 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*91.8 %*		*25-150*
Surrogate: M2-6:2 FTS	*145 %*		*25-150*
Surrogate: M2-8:2 FTS	*297 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*68.5 %*		*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**58.3**		%	0.100	1	SM 2540G Certifications: CTDOH	04/30/2020 10:41	04/30/2020 13:03	STN

Sample Information

Client Sample ID: SB06_0-2 **York Sample ID:** 20D0818-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 9:00 am	04/29/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.90	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 18:04	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.377	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**0.108**	J	ug/kg dry	0.0709	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**0.0962**	J	ug/kg dry	0.0489	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0334	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.0935**	J	ug/kg dry	0.0831	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**0.468**	J	ug/kg dry	0.0471	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0643	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
335-76-2	*** Perfluorodecanoic acid (PFDA)**	**0.434**	J	ug/kg dry	0.0551	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
2058-94-8	*** Perfluoroundecanoic acid (PFUnA)**	**0.381**	J	ug/kg dry	0.125	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
307-55-1	*** Perfluorododecanoic acid (PFDoA)**	**0.111**	J	ug/kg dry	0.0807	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0468	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0804	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.112	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.112	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0989	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
754-91-6	*** Perfluoro-1-octanesulfonamide (FOSA)**	**0.125**	J	ug/kg dry	0.0502	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT

Sample Information

Client Sample ID: SB06_0-2 **York Sample ID:** 20D0818-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 9:00 am	04/29/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0530	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
335-77-3	*** Perfluoro-1-decanesulfonic acid (PFDS)**	**0.101**	J	ug/kg dry	0.0551	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0710	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
39108-34-4	* **1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)**	**0.0629**	J	ug/kg dry	0.0275	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**0.197**	J	ug/kg dry	0.197	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 16:56	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*60.1 %*	*25-150*
Surrogate: M5PFHxA	*58.2 %*	*25-150*
Surrogate: M4PFHpA	*83.2 %*	*25-150*
Surrogate: M3PFHxS	*63.6 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*64.7 %*	*25-150*
Surrogate: M6PFDA	*60.4 %*	*25-150*
Surrogate: M7PFUdA	*59.0 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*56.4 %*	*25-150*
Surrogate: M2PFTeDA	*56.9 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*83.4 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*58.3 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*58.9 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*56.9 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*58.6 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*66.9 %*	*25-150*
Surrogate: M2-6:2 FTS	*72.4 %*	*25-150*
Surrogate: M2-8:2 FTS	*74.9 %*	*25-150*
Surrogate: M9PFNA	*69.2 %*	*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.1**		%	0.100	1	SM 2540G Certifications: CTDOH	04/30/2020 08:57	04/30/2020 13:00	STN

Sample Information

Client Sample ID: SB06_5-7 **York Sample ID:** 20D0818-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 9:05 am	04/29/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.71	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 18:38	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*42.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.412	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**0.0845**	J	ug/kg dry	0.0776	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**0.101**	J	ug/kg dry	0.0536	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0365	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.118**	J	ug/kg dry	0.0909	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**0.207**	J	ug/kg dry	0.0516	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0704	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0603	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.137	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0883	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0512	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0879	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.123	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.123	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.108	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0550	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT

Sample Information

Client Sample ID: SB06_5-7 **York Sample ID:** 20D0818-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 9:05 am	04/29/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0580	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0603	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0777	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0301	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.215	0.589	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 17:21	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*56.9 %*	*25-150*
Surrogate: M5PFHxA	*56.4 %*	*25-150*
Surrogate: M4PFHpA	*79.8 %*	*25-150*
Surrogate: M3PFHxS	*60.8 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*63.9 %*	*25-150*
Surrogate: M6PFDA	*66.1 %*	*25-150*
Surrogate: M7PFUdA	*61.2 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*62.7 %*	*25-150*
Surrogate: M2PFTeDA	*63.0 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*78.0 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*59.6 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*56.2 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*57.5 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*71.1 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*77.7 %*	*25-150*
Surrogate: M2-6:2 FTS	*76.3 %*	*25-150*
Surrogate: M2-8:2 FTS	*101 %*	*25-150*
Surrogate: M9PFNA	*70.9 %*	*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**80.4**		%	0.100	1	SM 2540G Certifications: CTDOH	04/30/2020 08:57	04/30/2020 13:00	STN

Sample Information

Client Sample ID: **SB06_12-14** **York Sample ID:** **20D0818-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 9:10 am	04/29/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.35	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 18:55	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*48.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.370	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**0.0864**	J	ug/kg dry	0.0697	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**0.0682**	J	ug/kg dry	0.0481	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0328	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.181**	J	ug/kg dry	0.0816	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0463	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0632	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0541	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.123	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0793	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0460	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0790	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.110	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.110	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0972	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0494	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT

Sample Information

Client Sample ID: SB06_12-14 **York Sample ID:** 20D0818-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 9:10 am	04/29/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0521	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0541	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0698	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0271	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.193	0.529	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 18:11	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*66.8 %*	*25-150*
Surrogate: M5PFHxA	*62.7 %*	*25-150*
Surrogate: M4PFHpA	*88.5 %*	*25-150*
Surrogate: M3PFHxS	*70.6 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*68.2 %*	*25-150*
Surrogate: M6PFDA	*77.6 %*	*25-150*
Surrogate: M7PFUdA	*67.0 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*62.9 %*	*25-150*
Surrogate: M2PFTeDA	*60.0 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*89.6 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*69.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*63.2 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*67.7 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*68.9 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*74.3 %*	*25-150*
Surrogate: M2-6:2 FTS	*69.2 %*	*25-150*
Surrogate: M2-8:2 FTS	*85.8 %*	*25-150*
Surrogate: M9PFNA	*73.3 %*	*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**86.1**		%	0.100	1	SM 2540G Certifications: CTDOH	04/30/2020 08:57	04/30/2020 13:00	STN

Sample Information

Client Sample ID: SB07_0-2 **York Sample ID:** 20D0818-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 11:45 am	04/29/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.71	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 19:12	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.377	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**0.268**	J	ug/kg dry	0.0709	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**0.157**	J	ug/kg dry	0.0490	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0334	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.148**	J	ug/kg dry	0.0831	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**1.68**		ug/kg dry	0.0472	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0644	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
335-76-2	*** Perfluorodecanoic acid (PFDA)**	**0.172**	J	ug/kg dry	0.0551	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.125	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
307-55-1	*** Perfluorododecanoic acid (PFDoA)**	**0.0903**	J	ug/kg dry	0.0807	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0468	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0804	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.112	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.112	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
2706-90-3	*** Perfluoropentanoic acid (PFPeA)**	**0.155**	J	ug/kg dry	0.0989	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0503	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT

Sample Information

Client Sample ID: **SB07_0-2** **York Sample ID:** **20D0818-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 11:45 am	04/29/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0531	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
335-77-3	*** Perfluoro-1-decanesulfonic acid (PFDS)**	**0.0652**	J	ug/kg dry	0.0551	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0711	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0276	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**0.264**	J	ug/kg dry	0.197	0.538	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 22:43	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*57.0 %*		*25-150*
Surrogate: M5PFHxA	*54.1 %*		*25-150*
Surrogate: M4PFHpA	*73.6 %*		*25-150*
Surrogate: M3PFHxS	*58.9 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*63.8 %*		*25-150*
Surrogate: M6PFDA	*60.0 %*		*25-150*
Surrogate: M7PFUdA	*46.3 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*31.2 %*		*25-150*
Surrogate: M2PFTeDA	*23.1 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*78.6 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*56.1 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*52.4 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*15.4 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*59.5 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*54.0 %*		*25-150*
Surrogate: M2-6:2 FTS	*151 %*	PFSu-H	*25-150*
Surrogate: M2-8:2 FTS	*145 %*		*25-150*
Surrogate: M9PFNA	*67.2 %*		*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.8**		%	0.100	1	SM 2540G Certifications: CTDOH	04/30/2020 10:41	04/30/2020 13:03	STN

Sample Information

Client Sample ID: SB07_8-10 **York Sample ID:** 20D0818-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 11:50 am	04/29/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.90	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 19:29	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.386	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**0.0994**	J	ug/kg dry	0.0727	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**0.136**	J	ug/kg dry	0.0502	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0342	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.0851	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0483	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0660	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0565	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.128	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0827	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0480	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0824	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.115	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.115	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.101	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0515	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT

Sample Information

Client Sample ID: SB07_8-10 **York Sample ID:** 20D0818-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 11:50 am	04/29/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0544	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0565	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0728	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0282	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.202	0.551	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:08	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*63.6 %*	*25-150*
Surrogate: M5PFHxA	*60.9 %*	*25-150*
Surrogate: M4PFHpA	*80.0 %*	*25-150*
Surrogate: M3PFHxS	*67.7 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*65.0 %*	*25-150*
Surrogate: M6PFDA	*69.5 %*	*25-150*
Surrogate: M7PFUdA	*65.6 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*60.5 %*	*25-150*
Surrogate: M2PFTeDA	*59.7 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*87.9 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*68.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*60.4 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*52.3 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*72.0 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*68.0 %*	*25-150*
Surrogate: M2-6:2 FTS	*75.1 %*	*25-150*
Surrogate: M2-8:2 FTS	*69.1 %*	*25-150*
Surrogate: M9PFNA	*72.8 %*	*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**86.8**		%	0.100	1	SM 2540G Certifications: CTDOH	04/30/2020 10:41	04/30/2020 13:03	STN

Sample Information

Client Sample ID: **SB07_18-20** **York Sample ID:** **20D0818-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 11:55 am	04/29/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.35	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/01/2020 07:24	05/04/2020 19:46	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*42.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.441	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**0.123**	J	ug/kg dry	0.0830	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**0.138**	J	ug/kg dry	0.0573	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0390	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.152**	J	ug/kg dry	0.0972	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0552	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0753	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0645	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.146	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0945	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0548	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0941	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.131	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.131	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.116	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0588	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT

Sample Information

Client Sample ID: SB07_18-20 **York Sample ID:** 20D0818-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 11:55 am	04/29/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0621	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0645	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0831	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0322	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.230	0.630	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:33	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*67.5 %*		*25-150*
Surrogate: M5PFHxA	*62.4 %*		*25-150*
Surrogate: M4PFHpA	*86.1 %*		*25-150*
Surrogate: M3PFHxS	*70.1 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*68.2 %*		*25-150*
Surrogate: M6PFDA	*81.9 %*		*25-150*
Surrogate: M7PFUdA	*75.4 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*64.9 %*		*25-150*
Surrogate: M2PFTeDA	*67.9 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*89.9 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*72.6 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*61.5 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*54.5 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*72.3 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*90.3 %*		*25-150*
Surrogate: M2-6:2 FTS	*82.2 %*		*25-150*
Surrogate: M2-8:2 FTS	*203 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*75.9 %*		*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**77.3**		%	0.100	1	SM 2540G Certifications: CTDOH	04/30/2020 10:41	04/30/2020 13:03	STN

Sample Information

Client Sample ID: SODUP01_042920 **York Sample ID:** 20D0818-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 12:00 am	04/29/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.43	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/05/2020 07:40	05/06/2020 12:12	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*54.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.384	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**0.427**	J	ug/kg dry	0.0724	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**0.181**	J	ug/kg dry	0.0500	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0341	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.274**	J	ug/kg dry	0.0848	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**2.15**		ug/kg dry	0.0481	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
375-95-1	*** Perfluorononanoic acid (PFNA)**	**0.115**	J	ug/kg dry	0.0657	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
335-76-2	*** Perfluorodecanoic acid (PFDA)**	**0.182**	J	ug/kg dry	0.0562	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
2058-94-8	*** Perfluoroundecanoic acid (PFUnA)**	**0.149**	J	ug/kg dry	0.128	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0824	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0478	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
376-06-7	*** Perfluorotetradecanoic acid (PFTA)**	**0.111**	J	ug/kg dry	0.0821	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.115	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.114	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
2706-90-3	*** Perfluoropentanoic acid (PFPeA)**	**0.198**	J	ug/kg dry	0.101	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
754-91-6	*** Perfluoro-1-octanesulfonamide (FOSA)**	**0.0845**	J	ug/kg dry	0.0513	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT

Sample Information

Client Sample ID: SODUP01_042920 **York Sample ID:** 20D0818-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0818	170610601	Soil	April 29, 2020 12:00 am	04/29/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0542	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0562	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0725	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0281	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**1.12**		ug/kg dry	0.201	0.549	1	EPA 537m Certifications:	05/07/2020 11:24	05/11/2020 23:58	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*59.3 %*		*25-150*
Surrogate: M5PFHxA	*51.7 %*		*25-150*
Surrogate: M4PFHpA	*73.0 %*		*25-150*
Surrogate: M3PFHxS	*61.5 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*66.9 %*		*25-150*
Surrogate: M6PFDA	*49.8 %*		*25-150*
Surrogate: M7PFUdA	*32.5 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*15.0 %*	PFSu-L	*25-150*
Surrogate: M2PFTeDA	*3.63 %*	PFSu-L	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*84.2 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*49.3 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*57.0 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*0.361 %*	PFSu-L	*10-150*
Surrogate: d3-N-MeFOSAA	*41.4 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*32.4 %*		*25-150*
Surrogate: M2-6:2 FTS	*249 %*	PFSu-H	*25-150*
Surrogate: M2-8:2 FTS	*151 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*67.0 %*		*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.1**		%	0.100	1	SM 2540G Certifications: CTDOH	04/30/2020 10:41	04/30/2020 13:03	STN

Analytical Batch Summary

Batch ID: BD01298 **Preparation Method:** % Solids Prep **Prepared By:** TJM

YORK Sample ID	Client Sample ID	Preparation Date
20D0818-01	SB04_0-2	04/30/20
20D0818-03	SB04_14-16	04/30/20
20D0818-05	SB06_0-2	04/30/20
20D0818-06	SB06_5-7	04/30/20
20D0818-07	SB06_12-14	04/30/20
BD01298-DUP1	Duplicate	04/30/20

Batch ID: BD01313 **Preparation Method:** % Solids Prep **Prepared By:** TJM

YORK Sample ID	Client Sample ID	Preparation Date
20D0818-04	SB04_18-20	04/30/20
20D0818-09	SB07_0-2	04/30/20
20D0818-10	SB07_8-10	04/30/20
20D0818-11	SB07_18-20	04/30/20
20D0818-12	SODUP01_042920	04/30/20
BD01313-DUP1	Duplicate	04/30/20

Batch ID: BE00002 **Preparation Method:** EPA 3550C **Prepared By:** LM

YORK Sample ID	Client Sample ID	Preparation Date
20D0818-01	SB04_0-2	05/01/20
20D0818-03	SB04_14-16	05/01/20
20D0818-04	SB04_18-20	05/01/20
20D0818-05	SB06_0-2	05/01/20
20D0818-06	SB06_5-7	05/01/20
20D0818-07	SB06_12-14	05/01/20
20D0818-09	SB07_0-2	05/01/20
20D0818-10	SB07_8-10	05/01/20
20D0818-11	SB07_18-20	05/01/20
BE00002-BLK1	Blank	05/01/20
BE00002-BS1	LCS	05/01/20

Batch ID: BE00118 **Preparation Method:** EPA 3550C **Prepared By:** LM

YORK Sample ID	Client Sample ID	Preparation Date
20D0818-12	SODUP01_042920	05/05/20
BE00118-BLK1	Blank	05/05/20
BE00118-BS1	LCS	05/05/20

Batch ID: BE00266 **Preparation Method:** SPE PFAS Extraction-Soil-EPA 537m **Prepared By:** KHA

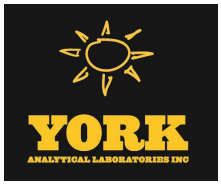
YORK Sample ID	Client Sample ID	Preparation Date
20D0818-01	SB04_0-2	05/07/20

20D0818-03	SB04_14-16	05/07/20
20D0818-04	SB04_18-20	05/07/20
20D0818-05	SB06_0-2	05/07/20
20D0818-06	SB06_5-7	05/07/20
20D0818-07	SB06_12-14	05/07/20
20D0818-09	SB07_0-2	05/07/20
20D0818-10	SB07_8-10	05/07/20
20D0818-11	SB07_18-20	05/07/20
20D0818-12	SODUP01_042920	05/07/20
BE00266-BLK1	Blank	05/07/20
BE00266-BS1	LCS	05/07/20
BE00266-MS1	Matrix Spike	05/07/20
BE00266-MSD1	Matrix Spike Dup	05/07/20

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc.

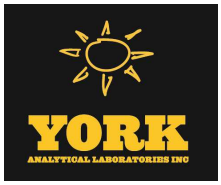
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00002 - EPA 3550C											
Blank (BE00002-BLK1) Blank									Prepared: 05/01/2020 Analyzed: 05/04/2020		
1,4-Dioxane	ND	9.90	ug/kg								
Surrogate: 1,4-Dioxane-d8	*248*		*"*	*495*		*50.0*	*39-83.1*				
LCS (BE00002-BS1) LCS									Prepared: 05/01/2020 Analyzed: 05/04/2020		
1,4-Dioxane	425	9.90	ug/kg	495		85.8	40-130				
Surrogate: 1,4-Dioxane-d8	*277*		*"*	*495*		*56.0*	*39-83.1*				
Batch BE00118 - EPA 3550C											
Blank (BE00118-BLK1) Blank									Prepared: 05/05/2020 Analyzed: 05/06/2020		
1,4-Dioxane	ND	9.90	ug/kg								
Surrogate: 1,4-Dioxane-d8	*356*		*"*	*495*		*72.0*	*39-83.1*				
LCS (BE00118-BS1) LCS									Prepared: 05/05/2020 Analyzed: 05/06/2020		
1,4-Dioxane	455	9.90	ug/kg	495		92.0	40-130				
Surrogate: 1,4-Dioxane-d8	*624*		*"*	*495*		*126*	*39-83.1*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

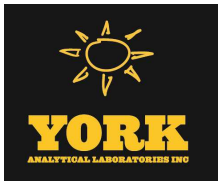
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00266 - SPE PFAS Extraction-Soil-EPA 537m											
Blank (BE00266-BLK1) Blank									Prepared: 05/07/2020 Analyzed: 05/11/2020		
Perfluorobutanesulfonic acid (PFBS)	ND	0.478	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	0.0901	0.478	"								
Perfluoroheptanoic acid (PFHpA)	0.102	0.478	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.478	"								
Perfluorooctanoic acid (PFOA)	ND	0.478	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.478	"								
Perfluorononanoic acid (PFNA)	ND	0.478	"								
Perfluorodecanoic acid (PFDA)	ND	0.478	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.478	"								
Perfluorododecanoic acid (PFDoA)	ND	0.478	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.478	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.478	"								
N-MeFOSAA	ND	0.478	"								
N-EtFOSAA	ND	0.478	"								
Perfluoropentanoic acid (PFPeA)	ND	0.478	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.478	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.478	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.478	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	0.478	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	0.0363	0.478	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.478	"								
Surrogate: M3PFBS	*3.28*		"	*4.44*		*74.0*	*25-150*				
Surrogate: M5PFHxA	*3.42*		"	*4.78*		*71.5*	*25-150*				
Surrogate: M4PFHpA	*4.74*		"	*4.78*		*99.3*	*25-150*				
Surrogate: M3PFHxS	*3.69*		"	*4.52*		*81.5*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.84*		"	*4.78*		*80.3*	*25-150*				
Surrogate: M6PFDA	*3.92*		"	*4.78*		*82.0*	*25-150*				
Surrogate: M7PFUdA	*3.55*		"	*4.78*		*74.2*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*2.94*		"	*4.78*		*61.5*	*25-150*				
Surrogate: M2PFTeDA	*3.42*		"	*4.78*		*71.7*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.60*		"	*4.78*		*96.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.74*		"	*4.57*		*81.9*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.37*		"	*4.78*		*70.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.53*		"	*4.78*		*73.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.58*		"	*4.78*		*74.9*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.01*		"	*4.78*		*84.0*	*25-150*				
Surrogate: M2-6:2 FTS	*5.61*		"	*4.53*		*124*	*25-150*				
Surrogate: M2-8:2 FTS	*5.09*		"	*4.58*		*111*	*25-150*				
Surrogate: M9PFNA	*4.06*		"	*4.78*		*85.0*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

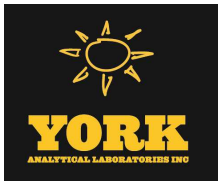
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00266 - SPE PFAS Extraction-Soil-EPA 537m											
LCS (BE00266-BS1) LCS								Prepared: 05/07/2020 Analyzed: 05/11/2020			
Perfluorobutanesulfonic acid (PFBS)	4.55	0.478	ug/kg wet	4.23		108	50-130				
Perfluorohexanoic acid (PFHxA)	4.76	0.478	"	4.78		99.6	50-130				
Perfluoroheptanoic acid (PFHpA)	3.74	0.478	"	4.78		78.2	50-130				
Perfluorohexanesulfonic acid (PFHxS)	3.69	0.478	"	3.53		104	50-130				
Perfluorooctanoic acid (PFOA)	5.02	0.478	"	4.78		105	50-130				
Perfluorooctanesulfonic acid (PFOS)	3.74	0.478	"	3.49		107	50-130				
Perfluorononanoic acid (PFNA)	4.62	0.478	"	4.59		101	50-130				
Perfluorodecanoic acid (PFDA)	4.82	0.478	"	4.78		101	50-130				
Perfluoroundecanoic acid (PFUnA)	5.09	0.478	"	4.78		107	50-130				
Perfluorododecanoic acid (PFDoA)	4.99	0.478	"	4.78		104	50-130				
Perfluorotridecanoic acid (PFTrDA)	4.67	0.478	"	4.78		97.7	50-130				
Perfluorotetradecanoic acid (PFTA)	4.97	0.478	"	4.78		104	50-130				
N-MeFOSAA	4.47	0.478	"	4.78		93.7	50-130				
N-EtFOSAA	4.56	0.478	"	4.78		95.4	50-130				
Perfluoropentanoic acid (PFPeA)	4.79	0.478	"	4.78		100	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	5.13	0.478	"	4.78		107	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.27	0.478	"	4.75		111	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	4.14	0.478	"	4.61		89.9	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	4.66	0.478	"	4.54		103	50-130				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	5.27	0.478	"	4.59		115	50-130				
Perfluoro-n-butanoic acid (PFBA)	5.03	0.478	"	4.78		105	50-130				
Surrogate: M3PFBS	*3.19*		*"*	*4.44*		*71.9*	*25-150*				
Surrogate: M5PFHxA	*3.27*		*"*	*4.78*		*68.5*	*25-150*				
Surrogate: M4PFHpA	*4.49*		*"*	*4.78*		*94.0*	*25-150*				
Surrogate: M3PFHxS	*3.49*		*"*	*4.52*		*77.3*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.42*		*"*	*4.78*		*71.6*	*25-150*				
Surrogate: M6PFDA	*3.45*		*"*	*4.78*		*72.2*	*25-150*				
Surrogate: M7PFUdA	*3.37*		*"*	*4.78*		*70.6*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*3.44*		*"*	*4.78*		*72.0*	*25-150*				
Surrogate: M2PFTeDA	*3.32*		*"*	*4.78*		*69.5*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.39*		*"*	*4.78*		*92.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.47*		*"*	*4.57*		*75.9*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.06*		*"*	*4.78*		*64.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.65*		*"*	*4.78*		*76.3*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.95*		*"*	*4.78*		*82.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.81*		*"*	*4.78*		*79.8*	*25-150*				
Surrogate: M2-6:2 FTS	*4.13*		*"*	*4.53*		*91.1*	*25-150*				
Surrogate: M2-8:2 FTS	*3.84*		*"*	*4.58*		*84.0*	*25-150*				
Surrogate: M9PFNA	*3.62*		*"*	*4.78*		*75.9*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00266 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike (BE00266-MS1) Matrix Spike	*Source sample: 20D0818-01 (SB04_0-2)								Prepared: 05/07/2020 Analyzed: 05/11/2020		
Perfluorobutanesulfonic acid (PFBS)	4.74	0.525	ug/kg dry	4.65	ND	102	25-150				
Perfluorohexanoic acid (PFHxA)	4.97	0.525	"	5.25	0.148	91.7	25-150				
Perfluoroheptanoic acid (PFHpA)	4.22	0.525	"	5.25	0.200	76.5	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.39	0.525	"	3.89	ND	113	25-150				
Perfluorooctanoic acid (PFOA)	4.99	0.525	"	5.25	0.311	89.1	25-150				
Perfluorooctanesulfonic acid (PFOS)	8.21	0.525	"	3.84	2.48	149	25-150				
Perfluorononanoic acid (PFNA)	4.84	0.525	"	5.04	0.145	93.1	25-150				
Perfluorodecanoic acid (PFDA)	4.69	0.525	"	5.25	0.153	86.4	25-150				
Perfluoroundecanoic acid (PFUnA)	5.02	0.525	"	5.25	0.183	92.0	25-150				
Perfluorododecanoic acid (PFDoA)	4.92	0.525	"	5.25	0.125	91.2	25-150				
Perfluorotridecanoic acid (PFTrDA)	4.51	0.525	"	5.25	0.0869	84.2	25-150				
Perfluorotetradecanoic acid (PFTA)	4.94	0.525	"	5.25	0.0856	92.5	25-150				
N-MeFOSAA	4.53	0.525	"	5.25	ND	86.3	25-150				
N-EtFOSAA	5.33	0.525	"	5.25	0.114	99.3	25-150				
Perfluoropentanoic acid (PFPeA)	4.81	0.525	"	5.25	0.118	89.3	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	5.15	0.525	"	5.25	ND	98.1	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.85	0.525	"	5.23	ND	112	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	4.25	0.525	"	5.07	0.0745	82.4	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	4.35	0.525	"	4.99	ND	87.1	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	5.86	0.525	"	5.04	0.0308	116	25-150				
Perfluoro-n-butanoic acid (PFBA)	6.37	0.525	"	5.25	1.28	97.0	25-150				
Surrogate: M3PFBS	*2.94*		"	*4.88*		*60.1*	*25-150*				
Surrogate: M5PFHxA	*3.01*		"	*5.25*		*57.2*	*25-150*				
Surrogate: M4PFHpA	*3.92*		"	*5.25*		*74.7*	*25-150*				
Surrogate: M3PFHxS	*3.18*		"	*4.97*		*63.9*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.60*		"	*5.25*		*68.6*	*25-150*				
Surrogate: M6PFDA	*3.62*		"	*5.25*		*69.0*	*25-150*				
Surrogate: M7PFUdA	*3.22*		"	*5.25*		*61.2*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*2.85*		"	*5.25*		*54.2*	*25-150*				
Surrogate: M2PFTeDA	*2.68*		"	*5.25*		*51.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.05*		"	*5.25*		*77.1*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.82*		"	*5.03*		*56.1*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.00*		"	*5.25*		*57.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.60*		"	*5.25*		*49.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.76*		"	*5.25*		*90.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.73*		"	*5.25*		*89.9*	*25-150*				
Surrogate: M2-6:2 FTS	*15.1*		"	*4.99*		*302*	*25-150*				
Surrogate: M2-8:2 FTS	*15.3*		"	*5.03*		*303*	*25-150*				
Surrogate: M9PFNA	*3.64*		"	*5.25*		*69.3*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00266 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike Dup (BE00266-M Matrix Spike Dup	*Source sample: 20D0818-01 (SB04_0-2)								Prepared: 05/07/2020 Analyzed: 05/11/2020		
Perfluorobutanesulfonic acid (PFBS)	4.79	0.507	ug/kg dry	4.48	ND	107	25-150		1.14	35	
Perfluorohexanoic acid (PFHxA)	5.08	0.507	"	5.07	0.148	97.4	25-150		2.22	35	
Perfluoroheptanoic acid (PFHpA)	4.28	0.507	"	5.07	0.200	80.6	25-150		1.53	35	
Perfluorohexanesulfonic acid (PFHxS)	4.38	0.507	"	3.75	ND	117	25-150		0.243	35	
Perfluorooctanoic acid (PFOA)	5.10	0.507	"	5.07	0.311	94.6	25-150		2.18	35	
Perfluorooctanesulfonic acid (PFOS)	7.81	0.507	"	3.70	2.48	144	25-150		4.96	35	
Perfluorononanoic acid (PFNA)	4.65	0.507	"	4.86	0.145	92.7	25-150		4.03	35	
Perfluorodecanoic acid (PFDA)	4.71	0.507	"	5.07	0.153	90.0	25-150		0.350	35	
Perfluoroundecanoic acid (PFUnA)	5.26	0.507	"	5.07	0.183	100	25-150		4.68	35	
Perfluorododecanoic acid (PFDoA)	4.92	0.507	"	5.07	0.125	94.7	25-150		0.0959	35	
Perfluorotridecanoic acid (PFTrDA)	4.54	0.507	"	5.07	0.0869	87.9	25-150		0.600	35	
Perfluorotetradecanoic acid (PFTA)	4.91	0.507	"	5.07	0.0856	95.3	25-150		0.662	35	
N-MeFOSAA	4.81	0.507	"	5.07	ND	94.9	25-150		5.92	35	
N-EtFOSAA	4.90	0.507	"	5.07	0.114	94.6	25-150		8.40	35	
Perfluoropentanoic acid (PFPeA)	4.98	0.507	"	5.07	0.118	95.9	25-150		3.40	35	
Perfluoro-1-octanesulfonamide (FOSA)	5.09	0.507	"	5.07	ND	101	25-150		1.15	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.53	0.507	"	5.04	ND	110	25-150		5.58	35	
Perfluoro-1-decanesulfonic acid (PFDS)	3.77	0.507	"	4.89	0.0745	75.6	25-150		12.0	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	4.53	0.507	"	4.81	ND	94.2	25-150		4.10	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	5.98	0.507	"	4.86	0.0308	122	25-150		1.96	35	
Perfluoro-n-butanoic acid (PFBA)	6.66	0.507	"	5.07	1.28	106	25-150		4.46	35	
Surrogate: M3PFBS	*2.77*		"	*4.71*		*58.9*	*25-150*				
Surrogate: M5PFHxA	*2.85*		"	*5.07*		*56.2*	*25-150*				
Surrogate: M4PFHpA	*3.65*		"	*5.07*		*72.1*	*25-150*				
Surrogate: M3PFHxS	*2.94*		"	*4.79*		*61.4*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.37*		"	*5.07*		*66.5*	*25-150*				
Surrogate: M6PFDA	*3.38*		"	*5.07*		*66.8*	*25-150*				
Surrogate: M7PFUdA	*2.88*		"	*5.07*		*56.8*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*2.59*		"	*5.07*		*51.1*	*25-150*				
Surrogate: M2PFTeDA	*2.47*		"	*5.07*		*48.7*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*3.93*		"	*5.07*		*77.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.92*		"	*4.85*		*60.2*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*2.81*		"	*5.07*		*55.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.45*		"	*5.07*		*48.4*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.31*		"	*5.07*		*85.0*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.19*		"	*5.07*		*82.8*	*25-150*				
Surrogate: M2-6:2 FTS	*14.3*		"	*4.81*		*296*	*25-150*				
Surrogate: M2-8:2 FTS	*14.6*		"	*4.85*		*301*	*25-150*				
Surrogate: M9PFNA	*3.53*		"	*5.07*		*69.6*	*25-150*				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD01298 - % Solids Prep											
Duplicate (BD01298-DUP1) Duplicate	*Source sample: 20D0818-07 (SB06_12-14)							Prepared & Analyzed: 04/30/2020			
% Solids	85.9	0.100	%		86.1				0.295	20	
Batch BD01313 - % Solids Prep											
Duplicate (BD01313-DUP1) Duplicate	*Source sample: 20D0818-12 (SODUP01_042920)							Prepared & Analyzed: 04/30/2020			
% Solids	91.8	0.100	%		90.1				1.88	20	

Sample and Data Qualifiers Relating to This Work Order

PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No.: 20D0818

Page ____ of ____

YOUR Information	Report To:	Invoice To:
Company: Langan	Company:	Company: Same
Address: 360 west 31st Street New York, NY	Address:	Address: Same
Phone.: 2124795400	Phone.:	Phone.: Same
Contact: Kim Semon	Contact: Dina Palazzolo	Contact: Same
E-mail: KSemon@langan.com	E-mail: DPalazzolo@langan.com	E-mail: Same

YOUR Project Number: 170610601

YOUR Project Name: 475 Bay Street

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day): X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)
Deirdre Casey

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil; Other

Samples From: New York X; New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections): Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB04_0-2	S	4/29 1410	VOC, SVOC, PCB, Pest, Herb, Metals (hex/tri chromium & cyanide), PFAS, 1,4 dioxane	4oz(1) 8oz(1) 4oz, (1) 16oz
SB04_10-12	S	4/29 1415	↓	
SB04_14-16	S	4/29 1420	↓	
SB04_18-20	S	4/29 1425	HOLD	
SB06_0-2	S	4/29 0900	VOC SVOC PCB PEST herb inorganics (hex tri chrom cyanide) PFAS, 14dioxane	
SB06_5-7	S	4/29 0905	↓	
SB06_12-14	S	4/29 0910	↓	
SB06_18-20	S	4/29 0915	HOLD	
SB07_0-2	S	4/29 1145	VOC SVOC PCB Pest herb inorganics (hex tri chrom cyanide) PFAS, 14dioxane	
SB07_8-10	S	4/29 1150	↓	

Comments:
Part375/TCL VOCs & SVOC
TAL Metals (including hex/trichromd cyanide)

Preservation: (check all that apply)
HCl ___ MeOH X HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction: Field Filtered ____ Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Langan 1511	4/29/20 1511		4/28/20		4/28/20 1750
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				TC Mahl	4/29/20 1750

Temp. Received at Lab: 3.5 Degrees C

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 20D0818

YOUR Information	Report To:	Invoice To:
Company: Langan	Company:	Company: same
Address: 360 west 31st Street NewYorkNY 10001	Address:	Address: same
Phone.: 212 479 5400	Phone.:	Phone.: same
Contact: Kim Semon	Contact: Dina Palazzolo	Contact: same
E-mail: KSemon@langan.com	E-mail: DPalazzolo@langan.com	E-mail: same

YOUR Project Number: 170161601

YOUR Project Name: 475 Bay street

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)
Deirdre Casey

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil; Other

Samples From: New York X; New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections)

Summary Report	CT RCP	Standard Excel EDD
QA Report	CT RCP DQA/DUE	EQuIS (Standard)
NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQuIS
NY ASP B Package	NJDKQP	NJDEP SRP HazSite
		Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB07-18-20	S	4/29 1155	VOC, SVOC, PCB, Pest, Herb, Metals (hex chromium & cyanide), PFAS & 1,4 dioxane	9 vials, (1) 8oz, (1) 4oz, (1) 8oz
SODUP01-042920	S	4/29 —	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	

Comments:

Preservation: (check all that apply)
HCl ___ MeOH X HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction: Field Filtered ___ Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Deirdre Casey Langan	4/29 1511	E Shafer	4/29/20	E Shafer	4/29/20 1750
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				TC Mahler	4/29/20 1750 / 3.5 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Dina Palazzolo, Ms.

Report Date: 05/11/2020
Client Project ID: 170610601
York Project (SDG) No.: 20D0849

Report Date: 05/11/2020
Client Project ID: 170610601
York Project (SDG) No.: 20D0849

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Dina Palazzolo, Ms.

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 30, 2020 and listed below. The project was identified as your project: **170610601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
20D0849-01	SB16_0-2	Soil	04/30/2020	04/30/2020
20D0849-02	SB16_14-16	Soil	04/30/2020	04/30/2020
20D0849-03	SB16_18-20	Soil	04/30/2020	04/30/2020
20D0849-04	SB12_0-2	Soil	04/30/2020	04/30/2020
20D0849-05	SB12_8-10	Soil	04/30/2020	04/30/2020
20D0849-06	SB12_18-20	Soil	04/30/2020	04/30/2020
20D0849-07	SB11_0-2	Soil	04/30/2020	04/30/2020
20D0849-08	SB11_10-12	Soil	04/30/2020	04/30/2020
20D0849-09	SB11_18-20	Soil	04/30/2020	04/30/2020
20D0849-10	SOFB02_043020	Water	04/30/2020	04/30/2020
20D0849-11	MW06_043020	Water	04/30/2020	04/30/2020
20D0849-12	MW08_043020	Water	04/30/2020	04/30/2020
20D0849-13	MW05_043020	Water	04/30/2020	04/30/2020
20D0849-14	GWDUP01_043020	Water	04/30/2020	04/30/2020
20D0849-15	GWFB01_043020	Water	04/30/2020	04/30/2020

General Notes for York Project (SDG) No.: 20D0849

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 05/11/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: SB16_0-2 **York Sample ID:** 20D0849-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 9:15 am	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.71	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/05/2020 07:40	05/06/2020 17:20	KH

Surrogate Recoveries	Result		Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*38.0 %*	S-08	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.350	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0660	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0456	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0310	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.313**	J	ug/kg dry	0.0773	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**0.393**	J	ug/kg dry	0.0438	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0599	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
335-76-2	*** Perfluorodecanoic acid (PFDA)**	**0.0606**	J	ug/kg dry	0.0513	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.116	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0751	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0435	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0748	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.105	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.104	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0920	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
754-91-6	*** Perfluoro-1-octanesulfonamide (FOSA)**	**0.0522**	J	ug/kg dry	0.0468	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT

Sample Information

Client Sample ID: SB16_0-2 **York Sample ID:** 20D0849-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 9:15 am	04/30/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0494	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0513	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0661	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0256	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**0.185**	J	ug/kg dry	0.183	0.501	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:17	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*61.9 %*		*25-150*
Surrogate: M5PFHxA	*60.5 %*		*25-150*
Surrogate: M4PFHpA	*72.0 %*		*25-150*
Surrogate: M3PFHxS	*63.4 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*70.4 %*		*25-150*
Surrogate: M6PFDA	*70.2 %*		*25-150*
Surrogate: M7PFUdA	*57.7 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*55.2 %*		*25-150*
Surrogate: M2PFTeDA	*58.8 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*88.4 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*59.9 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*61.5 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*51.8 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*64.4 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*74.2 %*		*25-150*
Surrogate: M2-6:2 FTS	*117 %*		*25-150*
Surrogate: M2-8:2 FTS	*174 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*77.7 %*		*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**87.1**		%	0.100	1	SM 2540G Certifications: CTDOH	05/01/2020 08:37	05/01/2020 12:19	TJM

Sample Information

Client Sample ID: SB16_14-16 **York Sample ID:** 20D0849-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 9:20 am	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.90	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/05/2020 07:40	05/06/2020 12:46	KH

Surrogate Recoveries	Result		Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*50.0 %*	S-08	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.372	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0700	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0484	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0329	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.0820	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0465	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0635	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0544	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.124	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0797	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0462	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0794	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.111	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.111	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0977	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0496	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT

Sample Information

Client Sample ID: SB16_14-16 **York Sample ID:** 20D0849-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 9:20 am	04/30/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0524	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0544	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0701	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0272	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.194	0.531	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 08:42	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*70.6 %*	*25-150*
Surrogate: M5PFHxA	*71.5 %*	*25-150*
Surrogate: M4PFHpA	*81.1 %*	*25-150*
Surrogate: M3PFHxS	*73.8 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*79.7 %*	*25-150*
Surrogate: M6PFDA	*82.0 %*	*25-150*
Surrogate: M7PFUdA	*76.8 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*70.0 %*	*25-150*
Surrogate: M2PFTeDA	*66.3 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*105 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*76.6 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*74.0 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*59.8 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*76.4 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*67.4 %*	*25-150*
Surrogate: M2-6:2 FTS	*77.7 %*	*25-150*
Surrogate: M2-8:2 FTS	*86.9 %*	*25-150*
Surrogate: M9PFNA	*83.5 %*	*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**84.3**		%	0.100	1	SM 2540G Certifications: CTDOH	05/01/2020 08:37	05/01/2020 12:19	TJM

Sample Information

Client Sample ID: **SB16_18-20** **York Sample ID:** **20D0849-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 9:25 am	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.52	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/05/2020 07:40	05/06/2020 13:03	KH

Surrogate Recoveries	Result		Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*28.0 %*	S-08	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.446	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0841	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0580	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0395	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.165**	J	ug/kg dry	0.0985	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0559	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0763	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0653	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.148	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0957	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0555	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0953	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.133	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.133	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.117	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0596	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT

Sample Information

Client Sample ID: SB16_18-20 **York Sample ID:** 20D0849-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 9:25 am	04/30/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0629	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0653	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0842	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0327	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.233	0.638	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:07	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*74.8 %*	*25-150*
Surrogate: M5PFHxA	*75.3 %*	*25-150*
Surrogate: M4PFHpA	*83.1 %*	*25-150*
Surrogate: M3PFHxS	*75.5 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*72.9 %*	*25-150*
Surrogate: M6PFDA	*56.1 %*	*25-150*
Surrogate: M7PFUdA	*50.5 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*43.4 %*	*25-150*
Surrogate: M2PFTeDA	*37.1 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*110 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*56.1 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*76.6 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*45.9 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*48.3 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*47.2 %*	*25-150*
Surrogate: M2-6:2 FTS	*73.8 %*	*25-150*
Surrogate: M2-8:2 FTS	*53.3 %*	*25-150*
Surrogate: M9PFNA	*66.9 %*	*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**77.9**		%	0.100	1	SM 2540G Certifications: CTDOH	05/01/2020 08:37	05/01/2020 12:19	TJM

Sample Information

Client Sample ID: SB12_0-2 **York Sample ID:** 20D0849-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 11:45 am	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.62	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/05/2020 07:40	05/06/2020 13:20	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.355	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0668	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0461	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0314	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.166**	J	ug/kg dry	0.0783	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**0.292**	J	ug/kg dry	0.0444	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0606	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0519	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.118	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0760	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0441	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0757	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.106	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.106	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
2706-90-3	*** Perfluoropentanoic acid (PFPeA)**	**0.111**	J	ug/kg dry	0.0932	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0473	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT

Sample Information

Client Sample ID: SB12_0-2 **York Sample ID:** 20D0849-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 11:45 am	04/30/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0500	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0519	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0669	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0260	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.185	0.507	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:32	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*67.8 %*		*25-150*
Surrogate: M5PFHxA	*70.5 %*		*25-150*
Surrogate: M4PFHpA	*79.2 %*		*25-150*
Surrogate: M3PFHxS	*69.0 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*78.6 %*		*25-150*
Surrogate: M6PFDA	*74.8 %*		*25-150*
Surrogate: M7PFUdA	*63.8 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*64.8 %*		*25-150*
Surrogate: M2PFTeDA	*63.6 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*100 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*62.9 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*69.6 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*62.6 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*84.5 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*86.7 %*		*25-150*
Surrogate: M2-6:2 FTS	*154 %*	PFSu-H	*25-150*
Surrogate: M2-8:2 FTS	*186 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*83.2 %*		*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.8**		%	0.100	1	SM 2540G Certifications: CTDOH	05/01/2020 08:37	05/01/2020 12:19	TJM

Sample Information

Client Sample ID: SB12_8-10 **York Sample ID:** 20D0849-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 11:50 am	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.43	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/05/2020 07:40	05/06/2020 13:37	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*42.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.385	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0725	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0500	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0341	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.0849	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0482	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0658	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0563	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.128	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0825	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0478	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0822	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.115	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.115	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.101	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0514	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT

Sample Information

Client Sample ID: SB12_8-10 **York Sample ID:** 20D0849-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 11:50 am	04/30/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0542	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0563	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0726	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0282	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.201	0.550	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 09:57	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*68.3 %*	*25-150*
Surrogate: M5PFHxA	*70.7 %*	*25-150*
Surrogate: M4PFHpA	*79.9 %*	*25-150*
Surrogate: M3PFHxS	*71.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*79.4 %*	*25-150*
Surrogate: M6PFDA	*83.6 %*	*25-150*
Surrogate: M7PFUdA	*75.1 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*71.4 %*	*25-150*
Surrogate: M2PFTeDA	*71.1 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*100 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*76.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*71.1 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*66.1 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*78.3 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*84.1 %*	*25-150*
Surrogate: M2-6:2 FTS	*91.9 %*	*25-150*
Surrogate: M2-8:2 FTS	*128 %*	*25-150*
Surrogate: M9PFNA	*84.6 %*	*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**81.5**		%	0.100	1	SM 2540G Certifications: CTDOH	05/01/2020 08:37	05/01/2020 12:19	TJM

Sample Information

Client Sample ID: **SB12_18-20** **York Sample ID:** **20D0849-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 11:55 am	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.71	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/05/2020 07:40	05/06/2020 14:11	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*48.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.370	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0698	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0482	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0328	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.0894**	J	ug/kg dry	0.0817	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0464	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0633	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0542	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.123	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0794	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0460	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0791	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.111	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.110	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0973	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0494	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT

Sample Information

Client Sample ID: SB12_18-20 **York Sample ID:** 20D0849-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 11:55 am	04/30/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0522	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0542	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0699	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0271	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.193	0.529	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 11:36	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*66.5 %*	*25-150*
Surrogate: M5PFHxA	*68.3 %*	*25-150*
Surrogate: M4PFHpA	*77.3 %*	*25-150*
Surrogate: M3PFHxS	*70.2 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*73.2 %*	*25-150*
Surrogate: M6PFDA	*72.2 %*	*25-150*
Surrogate: M7PFUdA	*68.8 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*67.8 %*	*25-150*
Surrogate: M2PFTeDA	*71.1 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*99.3 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*72.0 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*69.1 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*57.6 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*67.2 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*72.5 %*	*25-150*
Surrogate: M2-6:2 FTS	*76.5 %*	*25-150*
Surrogate: M2-8:2 FTS	*72.1 %*	*25-150*
Surrogate: M9PFNA	*78.3 %*	*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**84.5**		%	0.100	1	SM 2540G Certifications: CTDOH	05/01/2020 08:37	05/01/2020 12:19	TJM

Sample Information

Client Sample ID: SB11_0-2 **York Sample ID:** 20D0849-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 2:40 pm	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.52	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/05/2020 07:40	05/06/2020 14:28	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.360	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0678	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0468	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0319	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.0795	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0451	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0615	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0527	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.120	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0772	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0448	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0769	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.107	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.107	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.0946	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0481	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT

Sample Information

Client Sample ID: SB11_0-2 **York Sample ID:** 20D0849-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 2:40 pm	04/30/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0507	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0527	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0679	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0263	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.188	0.515	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:01	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*64.0 %*		*25-150*
Surrogate: M5PFHxA	*64.9 %*		*25-150*
Surrogate: M4PFHpA	*75.8 %*		*25-150*
Surrogate: M3PFHxS	*67.6 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*74.4 %*		*25-150*
Surrogate: M6PFDA	*72.5 %*		*25-150*
Surrogate: M7PFUdA	*67.5 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*61.7 %*		*25-150*
Surrogate: M2PFTeDA	*57.2 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*93.3 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*63.6 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*65.1 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*51.4 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*75.6 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*80.5 %*		*25-150*
Surrogate: M2-6:2 FTS	*128 %*		*25-150*
Surrogate: M2-8:2 FTS	*190 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*83.4 %*		*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.6**		%	0.100	1	SM 2540G Certifications: CTDOH	05/01/2020 08:37	05/01/2020 12:19	TJM

Sample Information

Client Sample ID: SB11_10-12 **York Sample ID:** 20D0849-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 2:45 pm	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.62	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/05/2020 07:40	05/06/2020 14:46	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*42.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.467	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0880	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0608	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0414	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.113**	J	ug/kg dry	0.103	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0585	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0798	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0684	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.155	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.100	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0581	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0997	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.139	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.139	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.123	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0624	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT

Sample Information

Client Sample ID: SB11_10-12 **York Sample ID:** 20D0849-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 2:45 pm	04/30/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0658	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0684	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0881	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0342	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.244	0.668	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:25	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*71.4 %*		*25-150*
Surrogate: M5PFHxA	*72.5 %*		*25-150*
Surrogate: M4PFHpA	*82.0 %*		*25-150*
Surrogate: M3PFHxS	*73.6 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*84.3 %*		*25-150*
Surrogate: M6PFDA	*90.1 %*		*25-150*
Surrogate: M7PFUdA	*66.7 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*67.7 %*		*25-150*
Surrogate: M2PFTeDA	*73.5 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*108 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*73.6 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*73.5 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*63.1 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*101 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*100 %*		*25-150*
Surrogate: M2-6:2 FTS	*228 %*	PFSu-H	*25-150*
Surrogate: M2-8:2 FTS	*365 %*	PFSu-H	*25-150*
Surrogate: M9PFNA	*90.6 %*		*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**71.1**		%	0.100	1	SM 2540G Certifications: CTDOH	05/01/2020 08:37	05/01/2020 12:19	TJM

Sample Information

Client Sample ID: SB11_18-20 **York Sample ID:** 20D0849-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 2:50 pm	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	9.80	1	EPA 8270D SIM Certifications: NELAC-NY10854	05/05/2020 07:40	05/06/2020 15:03	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*44.0 %*	*39-83.1*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.383	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0720	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.0497	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.0339	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.0844	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.0479	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.0654	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.0560	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.127	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.0820	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.0476	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.0817	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.114	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.114	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.100	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.0511	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT

Sample Information

Client Sample ID: SB11_18-20 **York Sample ID:** 20D0849-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Soil	April 30, 2020 2:50 pm	04/30/2020

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.0539	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.0560	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.0722	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.0280	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.200	0.547	1	EPA 537m Certifications:	05/05/2020 10:08	05/09/2020 12:50	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*61.9 %*	*25-150*
Surrogate: M5PFHxA	*69.3 %*	*25-150*
Surrogate: M4PFHpA	*78.0 %*	*25-150*
Surrogate: M3PFHxS	*63.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*72.7 %*	*25-150*
Surrogate: M6PFDA	*70.2 %*	*25-150*
Surrogate: M7PFUdA	*63.5 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*64.8 %*	*25-150*
Surrogate: M2PFTeDA	*65.1 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*102 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*62.8 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*69.0 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*58.7 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*67.5 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*67.4 %*	*25-150*
Surrogate: M2-6:2 FTS	*70.9 %*	*25-150*
Surrogate: M2-8:2 FTS	*77.3 %*	*25-150*
Surrogate: M9PFNA	*79.8 %*	*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**84.2**		%	0.100	1	SM 2540G Certifications: CTDOH	05/01/2020 08:37	05/01/2020 12:19	TJM

Sample Information

Client Sample ID: SOFB02_043020 **York Sample ID:** 20D0849-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 12:00 pm	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	05/04/2020 07:55	05/05/2020 16:32	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*68.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.294	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
307-24-4	* **Perfluorohexanoic acid (PFHxA)**	**0.936**	J	ng/L	0.471	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.635	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.281	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**0.669**	J	ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.292	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	0.524	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	0.657	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.777	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.37	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	0.529	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	0.557	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**1.94**	J	ng/L	0.452	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.296	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT

Sample Information

Client Sample ID: SOFB02_043020 **York Sample ID:** 20D0849-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 12:00 pm	04/30/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.415	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	0.492	5.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	0.399	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**2.78**	B	ng/L	1.63	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:03	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*57.0 %*	*25-150*
Surrogate: M5PFHxA	*58.4 %*	*25-150*
Surrogate: M4PFHpA	*67.7 %*	*25-150*
Surrogate: M3PFHxS	*59.8 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*60.6 %*	*25-150*
Surrogate: M6PFDA	*59.7 %*	*25-150*
Surrogate: M7PFUdA	*53.3 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*46.2 %*	*25-150*
Surrogate: M2PFTeDA	*28.8 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*78.1 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*58.9 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*57.1 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*52.3 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*52.2 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*48.8 %*	*25-150*
Surrogate: M2-6:2 FTS	*64.8 %*	*25-150*
Surrogate: M2-8:2 FTS	*68.5 %*	*25-150*
Surrogate: M9PFNA	*59.3 %*	*25-150*

Sample Information

Client Sample ID: MW06_043020 **York Sample ID:** 20D0849-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 2:14 pm	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	05/04/2020 07:55	05/05/2020 16:50	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*72.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* **Perfluorobutanesulfonic acid (PFBS)**	**9.45**		ng/L	0.294	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
307-24-4	* **Perfluorohexanoic acid (PFHxA)**	**22.3**		ng/L	0.471	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
375-85-9	* **Perfluoroheptanoic acid (PFHpA)**	**20.5**		ng/L	0.635	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
355-46-4	* **Perfluorohexanesulfonic acid (PFHxS)**	**2.69**		ng/L	0.281	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**178**		ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
1763-23-1	* **Perfluorooctanesulfonic acid (PFOS)**	**130**		ng/L	0.292	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
375-95-1	* **Perfluorononanoic acid (PFNA)**	**9.87**		ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
335-76-2	* **Perfluorodecanoic acid (PFDA)**	**2.52**		ng/L	0.524	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	0.657	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.777	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.37	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
376-06-7	* **Perfluorotetradecanoic acid (PFTA)**	**0.537**	J	ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	0.529	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
2991-50-6	* **N-EtFOSAA**	**0.726**	J	ng/L	0.557	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**23.2**		ng/L	0.452	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
754-91-6	* **Perfluoro-1-octanesulfonamide (FOSA)**	**0.700**	J	ng/L	0.296	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT

Sample Information

Client Sample ID: MW06_043020 **York Sample ID:** 20D0849-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 2:14 pm	04/30/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	*** Perfluoro-1-heptanesulfonic acid (PFHpS)**	**0.894**	J	ng/L	0.415	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	0.492	5.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	0.399	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**18.2**	B	ng/L	1.63	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 15:28	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*50.4 %*		*25-150*
Surrogate: M5PFHxA	*48.9 %*		*25-150*
Surrogate: M4PFHpA	*58.2 %*		*25-150*
Surrogate: M3PFHxS	*57.7 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*58.9 %*		*25-150*
Surrogate: M6PFDA	*64.4 %*		*25-150*
Surrogate: M7PFUdA	*49.7 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*35.3 %*		*25-150*
Surrogate: M2PFTeDA	*8.07 %*	PFSu-L	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*49.1 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*56.3 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*45.2 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*24.7 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*56.8 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*55.5 %*		*25-150*
Surrogate: M2-6:2 FTS	*208 %*	PFSu-H	*25-150*
Surrogate: M2-8:2 FTS	*140 %*		*25-150*
Surrogate: M9PFNA	*67.6 %*		*25-150*

Sample Information

Client Sample ID: MW08_043020 **York Sample ID:** 20D0849-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 10:55 am	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	05/04/2020 07:55	05/05/2020 17:08	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*68.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* **Perfluorobutanesulfonic acid (PFBS)**	**0.933**	J	ng/L	0.294	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
307-24-4	* **Perfluorohexanoic acid (PFHxA)**	**3.22**		ng/L	0.471	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
375-85-9	* **Perfluoroheptanoic acid (PFHpA)**	**2.59**		ng/L	0.635	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
355-46-4	* **Perfluorohexanesulfonic acid (PFHxS)**	**0.618**	J	ng/L	0.281	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**27.7**		ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
1763-23-1	* **Perfluorooctanesulfonic acid (PFOS)**	**10.9**		ng/L	0.292	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
375-95-1	* **Perfluorononanoic acid (PFNA)**	**0.984**	J	ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	0.524	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	0.657	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.777	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.37	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
376-06-7	* **Perfluorotetradecanoic acid (PFTA)**	**0.671**	J	ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
2355-31-9	* **N-MeFOSAA**	**0.712**	J	ng/L	0.529	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	0.557	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**3.08**		ng/L	0.452	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
754-91-6	* **Perfluoro-1-octanesulfonamide (FOSA)**	**0.816**	J	ng/L	0.296	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT

Sample Information

Client Sample ID: MW08_043020 **York Sample ID:** 20D0849-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 10:55 am	04/30/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.415	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	0.492	5.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	0.399	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**5.47**	B	ng/L	1.63	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 16:18	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*50.5 %*		*25-150*
Surrogate: M5PFHxA	*49.1 %*		*25-150*
Surrogate: M4PFHpA	*62.0 %*		*25-150*
Surrogate: M3PFHxS	*54.9 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*53.5 %*		*25-150*
Surrogate: M6PFDA	*51.5 %*		*25-150*
Surrogate: M7PFUdA	*36.9 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*26.1 %*		*25-150*
Surrogate: M2PFTeDA	*5.21 %*	PFSu-L	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*48.8 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*49.3 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*46.8 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*31.6 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*43.0 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*38.9 %*		*25-150*
Surrogate: M2-6:2 FTS	*71.5 %*		*25-150*
Surrogate: M2-8:2 FTS	*63.9 %*		*25-150*
Surrogate: M9PFNA	*56.8 %*		*25-150*

Sample Information

Client Sample ID: MW05_043020 **York Sample ID:** 20D0849-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 12:00 am	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	05/04/2020 07:55	05/05/2020 17:26	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*68.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* **Perfluorobutanesulfonic acid (PFBS)**	**14.9**		ng/L	0.294	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
307-24-4	* **Perfluorohexanoic acid (PFHxA)**	**17.7**		ng/L	0.471	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
375-85-9	* **Perfluoroheptanoic acid (PFHpA)**	**17.2**		ng/L	0.635	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
355-46-4	* **Perfluorohexanesulfonic acid (PFHxS)**	**3.87**		ng/L	0.281	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**143**		ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
1763-23-1	* **Perfluorooctanesulfonic acid (PFOS)**	**84.3**		ng/L	0.292	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
375-95-1	* **Perfluorononanoic acid (PFNA)**	**8.35**		ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
335-76-2	* **Perfluorodecanoic acid (PFDA)**	**1.28**	J	ng/L	0.524	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	0.657	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.777	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.37	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	0.529	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	0.557	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**16.9**		ng/L	0.452	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.296	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT

Sample Information

Client Sample ID: MW05_043020 **York Sample ID:** 20D0849-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 12:00 am	04/30/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	*** Perfluoro-1-heptanesulfonic acid (PFHpS)**	**2.42**		ng/L	0.415	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	0.492	5.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	0.399	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**17.4**	B	ng/L	1.63	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:07	KT

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*48.0 %*		*25-150*
Surrogate: M5PFHxA	*46.8 %*		*25-150*
Surrogate: M4PFHpA	*55.7 %*		*25-150*
Surrogate: M3PFHxS	*54.8 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*58.7 %*		*25-150*
Surrogate: M6PFDA	*60.4 %*		*25-150*
Surrogate: M7PFUdA	*50.8 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*36.6 %*		*25-150*
Surrogate: M2PFTeDA	*11.0 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*40.0 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*54.9 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*39.0 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*24.8 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*48.9 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*50.9 %*		*25-150*
Surrogate: M2-6:2 FTS	*192 %*	PFSu-H	*25-150*
Surrogate: M2-8:2 FTS	*98.9 %*		*25-150*
Surrogate: M9PFNA	*64.2 %*		*25-150*

Sample Information

Client Sample ID: GWDUP01_043020 **York Sample ID:** 20D0849-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 12:00 am	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	05/04/2020 07:55	05/05/2020 17:44	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*72.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* **Perfluorobutanesulfonic acid (PFBS)**	**0.894**	J	ng/L	0.294	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
307-24-4	* **Perfluorohexanoic acid (PFHxA)**	**3.18**		ng/L	0.471	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
375-85-9	* **Perfluoroheptanoic acid (PFHpA)**	**2.32**		ng/L	0.635	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
355-46-4	* **Perfluorohexanesulfonic acid (PFHxS)**	**0.681**	J	ng/L	0.281	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**27.5**		ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
1763-23-1	* **Perfluorooctanesulfonic acid (PFOS)**	**12.3**		ng/L	0.292	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
375-95-1	* **Perfluorononanoic acid (PFNA)**	**0.741**	J	ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	0.524	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	0.657	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.777	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.37	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	0.529	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	0.557	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**2.79**		ng/L	0.452	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.296	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT

Sample Information

Client Sample ID: GWDUP01_043020 **York Sample ID:** 20D0849-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 12:00 am	04/30/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.415	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	0.492	5.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	0.399	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**4.94**	B	ng/L	1.63	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:32	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*52.9 %*	*25-150*
Surrogate: M5PFHxA	*52.9 %*	*25-150*
Surrogate: M4PFHpA	*65.2 %*	*25-150*
Surrogate: M3PFHxS	*56.6 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*59.9 %*	*25-150*
Surrogate: M6PFDA	*61.6 %*	*25-150*
Surrogate: M7PFUdA	*49.9 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*44.0 %*	*25-150*
Surrogate: M2PFTeDA	*25.4 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*62.9 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*56.6 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*51.0 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*33.0 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*49.4 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*47.5 %*	*25-150*
Surrogate: M2-6:2 FTS	*88.5 %*	*25-150*
Surrogate: M2-8:2 FTS	*68.5 %*	*25-150*
Surrogate: M9PFNA	*60.4 %*	*25-150*

Sample Information

Client Sample ID: GWFB01_043020 **York Sample ID:** 20D0849-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 2:00 pm	04/30/2020

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	05/04/2020 07:55	05/05/2020 18:01	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*64.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.294	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.471	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.635	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.281	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**0.551**	J	ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.292	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	0.524	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	0.657	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.777	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.37	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.531	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	0.529	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	0.557	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**0.719**	J	ng/L	0.452	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.296	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT

Sample Information

Client Sample ID: GWFB01_043020 **York Sample ID:** 20D0849-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20D0849	170610601	Water	April 30, 2020 2:00 pm	04/30/2020

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.415	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	0.574	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	0.492	5.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	0.399	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**2.24**	B	ng/L	1.63	2.00	1	EPA 537m Certifications:	05/05/2020 11:58	05/08/2020 17:57	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*53.8 %*	*25-150*
Surrogate: M5PFHxA	*54.3 %*	*25-150*
Surrogate: M4PFHpA	*64.1 %*	*25-150*
Surrogate: M3PFHxS	*57.2 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*56.7 %*	*25-150*
Surrogate: M6PFDA	*58.7 %*	*25-150*
Surrogate: M7PFUdA	*53.0 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*50.2 %*	*25-150*
Surrogate: M2PFTeDA	*32.2 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*75.5 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*57.2 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*53.7 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*48.4 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*51.0 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*49.0 %*	*25-150*
Surrogate: M2-6:2 FTS	*57.6 %*	*25-150*
Surrogate: M2-8:2 FTS	*65.3 %*	*25-150*
Surrogate: M9PFNA	*58.3 %*	*25-150*

Analytical Batch Summary

Batch ID: BE00012 **Preparation Method:** % Solids Prep **Prepared By:** TJM

YORK Sample ID	Client Sample ID	Preparation Date
20D0849-01	SB16_0-2	05/01/20
20D0849-02	SB16_14-16	05/01/20
20D0849-03	SB16_18-20	05/01/20
20D0849-04	SB12_0-2	05/01/20
20D0849-05	SB12_8-10	05/01/20
20D0849-06	SB12_18-20	05/01/20
20D0849-07	SB11_0-2	05/01/20
20D0849-08	SB11_10-12	05/01/20
20D0849-09	SB11_18-20	05/01/20
BE00012-DUP1	Duplicate	05/01/20

Batch ID: BE00069 **Preparation Method:** EPA 3535A **Prepared By:** CTD

YORK Sample ID	Client Sample ID	Preparation Date
20D0849-10	SOFB02_043020	05/04/20
20D0849-11	MW06_043020	05/04/20
20D0849-12	MW08_043020	05/04/20
20D0849-13	MW05_043020	05/04/20
20D0849-14	GWDUP01_043020	05/04/20
20D0849-15	GWFB01_043020	05/04/20
BE00069-BLK1	Blank	05/04/20
BE00069-BS1	LCS	05/04/20

Batch ID: BE00118 **Preparation Method:** EPA 3550C **Prepared By:** LM

YORK Sample ID	Client Sample ID	Preparation Date
20D0849-01	SB16_0-2	05/05/20
20D0849-02	SB16_14-16	05/05/20
20D0849-03	SB16_18-20	05/05/20
20D0849-04	SB12_0-2	05/05/20
20D0849-05	SB12_8-10	05/05/20
20D0849-06	SB12_18-20	05/05/20
20D0849-07	SB11_0-2	05/05/20
20D0849-08	SB11_10-12	05/05/20
20D0849-09	SB11_18-20	05/05/20
BE00118-BLK1	Blank	05/05/20
BE00118-BS1	LCS	05/05/20
BE00118-MS1	Matrix Spike	05/05/20

Batch ID: BE00136 **Preparation Method:** SPE PFAS Extraction-Soil-EPA 537m **Prepared By:** KT

YORK Sample ID	Client Sample ID	Preparation Date
20D0849-01	SB16_0-2	05/05/20
20D0849-02	SB16_14-16	05/05/20

20D0849-03	SB16_18-20	05/05/20
20D0849-04	SB12_0-2	05/05/20
20D0849-05	SB12_8-10	05/05/20
20D0849-06	SB12_18-20	05/05/20
20D0849-07	SB11_0-2	05/05/20
20D0849-08	SB11_10-12	05/05/20
20D0849-09	SB11_18-20	05/05/20
BE00136-BLK1	Blank	05/05/20
BE00136-BS1	LCS	05/05/20
BE00136-MS1	Matrix Spike	05/05/20
BE00136-MSD1	Matrix Spike Dup	05/05/20

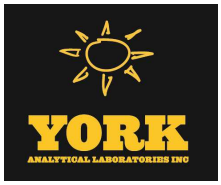
Batch ID: BE00144 **Preparation Method:** SPE Ext-PFAS-EPA 537.1M **Prepared By:** KHA

YORK Sample ID	Client Sample ID	Preparation Date
20D0849-10	SOFB02_043020	05/05/20
20D0849-11	MW06_043020	05/05/20
20D0849-12	MW08_043020	05/05/20
20D0849-13	MW05_043020	05/05/20
20D0849-14	GWDUP01_043020	05/05/20
20D0849-15	GWFB01_043020	05/05/20
BE00144-BLK1	Blank	05/05/20
BE00144-BS1	LCS	05/05/20
BE00144-BS2	LCS	05/05/20
BE00144-BS3	LCS	05/05/20
BE00144-BS4	LCS	05/05/20
BE00144-DUP1	Duplicate	05/05/20
BE00144-MS1	Matrix Spike	05/05/20

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc.

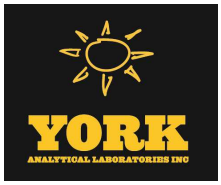
Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00069 - EPA 3535A												
Blank (BE00069-BLK1)	Blank									Prepared: 05/04/2020 Analyzed: 05/05/2020		
1,4-Dioxane		ND	0.200	ug/L								
Surrogate: 1,4-Dioxane-d8		*3.40*		*"*	*5.00*		*68.0*	*36.6-118*				
LCS (BE00069-BS1)	LCS									Prepared: 05/04/2020 Analyzed: 05/05/2020		
1,4-Dioxane		5.58	0.200	ug/L	5.00		112	50-130				
Surrogate: 1,4-Dioxane-d8		*3.40*		*"*	*5.00*		*68.0*	*36.6-118*				
Batch BE00118 - EPA 3550C												
Blank (BE00118-BLK1)	Blank									Prepared: 05/05/2020 Analyzed: 05/06/2020		
1,4-Dioxane		ND	9.90	ug/kg								
Surrogate: 1,4-Dioxane-d8		*356*		*"*	*495*		*72.0*	*39-83.1*				
LCS (BE00118-BS1)	LCS									Prepared: 05/05/2020 Analyzed: 05/06/2020		
1,4-Dioxane		455	9.90	ug/kg	495		92.0	40-130				
Surrogate: 1,4-Dioxane-d8		*624*		*"*	*495*		*126*	*39-83.1*				
Matrix Spike (BE00118-MS1)	Matrix Spike	*Source sample: 20D0849-04 (SB12_0-2)								Prepared: 05/05/2020 Analyzed: 05/06/2020		
1,4-Dioxane		495	9.90	ug/kg	495	ND	100	40-130				
Surrogate: 1,4-Dioxane-d8		*287*		*"*	*495*		*58.0*	*40-130*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

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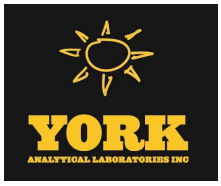
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00136 - SPE PFAS Extraction-Soil-EPA 537m											
Blank (BE00136-BLK1) Blank									Prepared: 05/05/2020 Analyzed: 05/09/2020		
Perfluorobutanesulfonic acid (PFBS)	ND	0.490	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.490	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.490	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.490	"								
Perfluorooctanoic acid (PFOA)	ND	0.490	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.490	"								
Perfluorononanoic acid (PFNA)	ND	0.490	"								
Perfluorodecanoic acid (PFDA)	ND	0.490	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.490	"								
Perfluorododecanoic acid (PFDoA)	ND	0.490	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.490	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.490	"								
N-MeFOSAA	ND	0.490	"								
N-EtFOSAA	ND	0.490	"								
Perfluoropentanoic acid (PFPeA)	ND	0.490	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.490	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.490	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.490	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	0.490	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	0.490	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.490	"								
Surrogate: M3PFBS	*3.67*		"	*4.55*		*80.8*	*25-150*				
Surrogate: M5PFHxA	*3.94*		"	*4.90*		*80.6*	*25-150*				
Surrogate: M4PFHpA	*4.15*		"	*4.90*		*84.8*	*25-150*				
Surrogate: M3PFHxS	*3.81*		"	*4.63*		*82.2*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*4.22*		"	*4.90*		*86.2*	*25-150*				
Surrogate: M6PFDA	*4.06*		"	*4.90*		*83.0*	*25-150*				
Surrogate: M7PFUdA	*3.92*		"	*4.90*		*80.0*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*4.28*		"	*4.90*		*87.5*	*25-150*				
Surrogate: M2PFTeDA	*3.99*		"	*4.90*		*81.5*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.63*		"	*4.90*		*115*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*4.01*		"	*4.69*		*85.7*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.93*		"	*4.90*		*80.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.63*		"	*4.90*		*74.1*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.82*		"	*4.90*		*77.9*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.00*		"	*4.90*		*81.7*	*25-150*				
Surrogate: M2-6:2 FTS	*4.34*		"	*4.65*		*93.4*	*25-150*				
Surrogate: M2-8:2 FTS	*4.17*		"	*4.69*		*89.0*	*25-150*				
Surrogate: M9PFNA	*4.63*		"	*4.90*		*94.5*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

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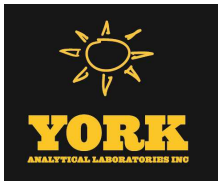
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00136 - SPE PFAS Extraction-Soil-EPA 537m											
LCS (BE00136-BS1) LCS									Prepared: 05/05/2020 Analyzed: 05/09/2020		
Perfluorobutanesulfonic acid (PFBS)	4.24	0.481	ug/kg wet	4.26		99.6	50-130				
Perfluorohexanoic acid (PFHxA)	4.52	0.481	"	4.81		93.9	50-130				
Perfluoroheptanoic acid (PFHpA)	4.23	0.481	"	4.81		87.9	50-130				
Perfluorohexanesulfonic acid (PFHxS)	3.40	0.481	"	3.56		95.6	50-130				
Perfluorooctanoic acid (PFOA)	4.25	0.481	"	4.81		88.3	50-130				
Perfluorooctanesulfonic acid (PFOS)	3.28	0.481	"	3.51		93.5	50-130				
Perfluorononanoic acid (PFNA)	4.04	0.481	"	4.62		87.5	50-130				
Perfluorodecanoic acid (PFDA)	4.48	0.481	"	4.81		93.1	50-130				
Perfluoroundecanoic acid (PFUnA)	4.40	0.481	"	4.81		91.5	50-130				
Perfluorododecanoic acid (PFDoA)	4.48	0.481	"	4.81		93.2	50-130				
Perfluorotridecanoic acid (PFTrDA)	4.38	0.481	"	4.81		91.0	50-130				
Perfluorotetradecanoic acid (PFTA)	4.51	0.481	"	4.81		93.9	50-130				
N-MeFOSAA	4.62	0.481	"	4.81		96.0	50-130				
N-EtFOSAA	4.45	0.481	"	4.81		92.5	50-130				
Perfluoropentanoic acid (PFPeA)	4.44	0.481	"	4.81		92.4	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	4.93	0.481	"	4.81		103	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.84	0.481	"	4.78		101	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	4.02	0.481	"	4.64		86.5	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	3.99	0.481	"	4.57		87.3	50-130				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	5.48	0.481	"	4.62		119	50-130				
Perfluoro-n-butanoic acid (PFBA)	4.57	0.481	"	4.81		95.1	50-130				
Surrogate: M3PFBS	*3.24*		"	*4.47*		*72.6*	*25-150*				
Surrogate: M5PFHxA	*3.47*		"	*4.81*		*72.2*	*25-150*				
Surrogate: M4PFHpA	*3.71*		"	*4.81*		*77.2*	*25-150*				
Surrogate: M3PFHxS	*3.38*		"	*4.55*		*74.2*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.74*		"	*4.81*		*77.7*	*25-150*				
Surrogate: M6PFDA	*3.61*		"	*4.81*		*75.1*	*25-150*				
Surrogate: M7PFUdA	*3.44*		"	*4.81*		*71.6*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*3.47*		"	*4.81*		*72.1*	*25-150*				
Surrogate: M2PFTeDA	*3.41*		"	*4.81*		*70.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.04*		"	*4.81*		*105*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.44*		"	*4.60*		*74.8*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.54*		"	*4.81*		*73.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.16*		"	*4.81*		*65.6*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.51*		"	*4.81*		*73.0*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.22*		"	*4.81*		*66.9*	*25-150*				
Surrogate: M2-6:2 FTS	*3.82*		"	*4.56*		*83.8*	*25-150*				
Surrogate: M2-8:2 FTS	*3.59*		"	*4.61*		*77.9*	*25-150*				
Surrogate: M9PFNA	*4.06*		"	*4.81*		*84.3*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

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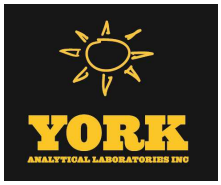
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00136 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike (BE00136-MS1) Matrix Spike	*Source sample: 20D0849-04 (SB12_0-2)								Prepared: 05/05/2020 Analyzed: 05/09/2020		
Perfluorobutanesulfonic acid (PFBS)	4.40	0.522	ug/kg dry	4.62	ND	95.1	25-150				
Perfluorohexanoic acid (PFHxA)	4.58	0.522	"	5.22	ND	87.7	25-150				
Perfluoroheptanoic acid (PFHpA)	4.17	0.522	"	5.22	ND	79.7	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.30	0.522	"	3.87	ND	111	25-150				
Perfluorooctanoic acid (PFOA)	4.73	0.522	"	5.22	0.166	87.3	25-150				
Perfluorooctanesulfonic acid (PFOS)	5.03	0.522	"	3.81	0.292	124	25-150				
Perfluorononanoic acid (PFNA)	4.22	0.522	"	5.01	ND	84.1	25-150				
Perfluorodecanoic acid (PFDA)	4.40	0.522	"	5.22	ND	84.2	25-150				
Perfluoroundecanoic acid (PFUnA)	4.56	0.522	"	5.22	ND	87.3	25-150				
Perfluorododecanoic acid (PFDoA)	4.30	0.522	"	5.22	ND	82.3	25-150				
Perfluorotridecanoic acid (PFTrDA)	4.16	0.522	"	5.22	ND	79.7	25-150				
Perfluorotetradecanoic acid (PFTA)	4.50	0.522	"	5.22	ND	86.2	25-150				
N-MeFOSAA	4.11	0.522	"	5.22	ND	78.7	25-150				
N-EtFOSAA	4.77	0.522	"	5.22	ND	91.3	25-150				
Perfluoropentanoic acid (PFPeA)	4.56	0.522	"	5.22	0.111	85.2	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.59	0.522	"	5.22	ND	87.8	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.98	0.522	"	5.20	ND	95.9	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.55	0.522	"	5.04	ND	70.5	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	4.24	0.522	"	4.96	ND	85.4	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	5.50	0.522	"	5.01	ND	110	25-150				
Perfluoro-n-butanoic acid (PFBA)	4.97	0.522	"	5.22	ND	95.1	25-150				
Surrogate: M3PFBS	*3.07*		"	*4.85*		*63.3*	*25-150*				
Surrogate: M5PFHxA	*3.33*		"	*5.22*		*63.8*	*25-150*				
Surrogate: M4PFHpA	*3.90*		"	*5.22*		*74.7*	*25-150*				
Surrogate: M3PFHxS	*3.19*		"	*4.94*		*64.5*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.88*		"	*5.22*		*74.2*	*25-150*				
Surrogate: M6PFDA	*3.95*		"	*5.22*		*75.7*	*25-150*				
Surrogate: M7PFUdA	*3.65*		"	*5.22*		*69.8*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*3.79*		"	*5.22*		*72.6*	*25-150*				
Surrogate: M2PFTeDA	*3.72*		"	*5.22*		*71.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.68*		"	*5.22*		*89.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.22*		"	*5.00*		*64.5*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.32*		"	*5.22*		*63.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.30*		"	*5.22*		*63.1*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.45*		"	*5.22*		*85.1*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.53*		"	*5.22*		*86.8*	*25-150*				
Surrogate: M2-6:2 FTS	*7.15*		"	*4.96*		*144*	*25-150*				
Surrogate: M2-8:2 FTS	*8.75*		"	*5.00*		*175*	*25-150*				
Surrogate: M9PFNA	*4.26*		"	*5.22*		*81.6*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

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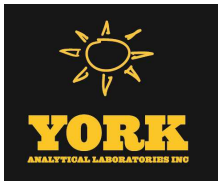
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00136 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike Dup (BE00136-M Matrix Spike Dup	*Source sample: 20D0849-04 (SB12_0-2)								Prepared: 05/05/2020 Analyzed: 05/09/2020		
Perfluorobutanesulfonic acid (PFBS)	4.26	0.524	ug/kg dry	4.63	ND	91.9	25-150		3.18	35	
Perfluorohexanoic acid (PFHxA)	4.15	0.524	"	5.24	ND	79.2	25-150		9.97	35	
Perfluoroheptanoic acid (PFHpA)	4.21	0.524	"	5.24	ND	80.3	25-150		0.985	35	
Perfluorohexanesulfonic acid (PFHxS)	3.98	0.524	"	3.87	ND	103	25-150		7.65	35	
Perfluorooctanoic acid (PFOA)	4.68	0.524	"	5.24	0.166	86.3	25-150		0.886	35	
Perfluorooctanesulfonic acid (PFOS)	4.87	0.524	"	3.82	0.292	120	25-150		3.08	35	
Perfluorononanoic acid (PFNA)	4.24	0.524	"	5.03	ND	84.3	25-150		0.507	35	
Perfluorodecanoic acid (PFDA)	4.31	0.524	"	5.24	ND	82.3	25-150		2.06	35	
Perfluoroundecanoic acid (PFUnA)	4.53	0.524	"	5.24	ND	86.6	25-150		0.604	35	
Perfluorododecanoic acid (PFDoA)	3.57	0.524	"	5.24	ND	68.2	25-150		18.5	35	
Perfluorotridecanoic acid (PFTrDA)	4.15	0.524	"	5.24	ND	79.3	25-150		0.267	35	
Perfluorotetradecanoic acid (PFTA)	4.48	0.524	"	5.24	ND	85.5	25-150		0.479	35	
N-MeFOSAA	4.61	0.524	"	5.24	ND	88.0	25-150		11.4	35	
N-EtFOSAA	4.31	0.524	"	5.24	ND	82.3	25-150		10.2	35	
Perfluoropentanoic acid (PFPeA)	4.59	0.524	"	5.24	0.111	85.5	25-150		0.557	35	
Perfluoro-1-octanesulfonamide (FOSA)	4.75	0.524	"	5.24	ND	90.8	25-150		3.57	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.07	0.524	"	5.21	ND	97.4	25-150		1.81	35	
Perfluoro-1-decanesulfonic acid (PFDS)	3.65	0.524	"	5.05	ND	72.2	25-150		2.60	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	4.24	0.524	"	4.97	ND	85.2	25-150		0.0152	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	5.21	0.524	"	5.03	ND	104	25-150		5.39	35	
Perfluoro-n-butanoic acid (PFBA)	4.83	0.524	"	5.24	ND	92.2	25-150		2.75	35	
Surrogate: M3PFBS	*3.32*		*"*	*4.86*		*68.3*	*25-150*				
Surrogate: M5PFHxA	*3.56*		*"*	*5.24*		*68.0*	*25-150*				
Surrogate: M4PFHpA	*4.21*		*"*	*5.24*		*80.4*	*25-150*				
Surrogate: M3PFHxS	*3.56*		*"*	*4.95*		*71.9*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*4.18*		*"*	*5.24*		*79.9*	*25-150*				
Surrogate: M6PFDA	*4.09*		*"*	*5.24*		*78.0*	*25-150*				
Surrogate: M7PFUdA	*3.44*		*"*	*5.24*		*65.7*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*3.57*		*"*	*5.24*		*68.1*	*25-150*				
Surrogate: M2PFTeDA	*3.44*		*"*	*5.24*		*65.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.24*		*"*	*5.24*		*100*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.24*		*"*	*5.01*		*64.6*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.55*		*"*	*5.24*		*67.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.42*		*"*	*5.24*		*65.3*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.37*		*"*	*5.24*		*83.5*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.98*		*"*	*5.24*		*95.0*	*25-150*				
Surrogate: M2-6:2 FTS	*7.87*		*"*	*4.97*		*158*	*25-150*				
Surrogate: M2-8:2 FTS	*10.0*		*"*	*5.02*		*200*	*25-150*				
Surrogate: M9PFNA	*4.41*		*"*	*5.24*		*84.1*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

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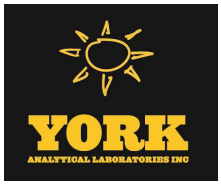
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00144 - SPE Ext-PFAS-EPA 537.1M											
Blank (BE00144-BLK1) Blank									Prepared: 05/05/2020 Analyzed: 05/08/2020		
Perfluorobutanesulfonic acid (PFBS)	ND	2.00	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	0.883	2.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	0.576	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	5.00	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	2.00	"								
Perfluoro-n-butanoic acid (PFBA)	2.72	2.00	"								
Surrogate: M3PFBS	*41.1*		"	*74.3*		*55.3*	*25-150*				
Surrogate: M5PFHxA	*46.2*		"	*80.0*		*57.7*	*25-150*				
Surrogate: M4PFHpA	*49.6*		"	*80.0*		*62.0*	*25-150*				
Surrogate: M3PFHxS	*44.2*		"	*75.7*		*58.4*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*48.2*		"	*80.0*		*60.3*	*25-150*				
Surrogate: M6PFDA	*53.3*		"	*80.0*		*66.7*	*25-150*				
Surrogate: M7PFUdA	*48.1*		"	*80.0*		*60.1*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*46.7*		"	*80.0*		*58.4*	*25-150*				
Surrogate: M2PFTeDA	*38.7*		"	*80.0*		*48.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*51.5*		"	*80.0*		*64.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*45.0*		"	*76.6*		*58.8*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*45.5*		"	*80.0*		*56.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*43.5*		"	*80.0*		*54.4*	*10-150*				
Surrogate: d3-N-MeFOSAA	*49.9*		"	*80.0*		*62.4*	*25-150*				
Surrogate: d5-N-EtFOSAA	*48.3*		"	*80.0*		*60.3*	*25-150*				
Surrogate: M2-6:2 FTS	*48.5*		"	*75.9*		*63.9*	*25-150*				
Surrogate: M2-8:2 FTS	*56.1*		"	*76.6*		*73.2*	*25-150*				
Surrogate: M9PFNA	*50.5*		"	*80.0*		*63.1*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

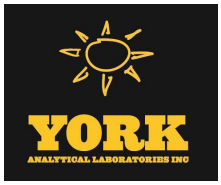
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00144 - SPE Ext-PFAS-EPA 537.1M											
LCS (BE00144-BS1) LCS									Prepared: 05/05/2020 Analyzed: 05/08/2020		
Perfluorobutanesulfonic acid (PFBS)	73.0	2.00	ng/L	70.8		103	50-130				
Perfluorohexanoic acid (PFHxA)	79.0	2.00	"	80.0		98.8	50-130				
Perfluoroheptanoic acid (PFHpA)	72.7	2.00	"	80.0		90.9	50-130				
Perfluorohexanesulfonic acid (PFHxS)	57.8	2.00	"	59.2		97.7	50-130				
Perfluorooctanoic acid (PFOA)	80.2	2.00	"	80.0		100	50-130				
Perfluorooctanesulfonic acid (PFOS)	58.8	2.00	"	58.4		101	50-130				
Perfluorononanoic acid (PFNA)	71.2	2.00	"	76.8		92.7	50-130				
Perfluorodecanoic acid (PFDA)	74.1	2.00	"	80.0		92.6	50-130				
Perfluoroundecanoic acid (PFUnA)	80.6	2.00	"	80.0		101	50-130				
Perfluorododecanoic acid (PFDoA)	77.0	2.00	"	80.0		96.3	50-130				
Perfluorotridecanoic acid (PFTrDA)	64.2	2.00	"	80.0		80.3	50-130				
Perfluorotetradecanoic acid (PFTA)	74.6	2.00	"	80.0		93.3	50-130				
N-MeFOSAA	71.7	2.00	"	80.0		89.7	50-130				
N-EtFOSAA	79.6	2.00	"	80.0		99.5	50-130				
Perfluoropentanoic acid (PFPeA)	77.2	2.00	"	80.0		96.6	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	77.8	2.00	"	80.0		97.2	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	87.9	2.00	"	79.6		110	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	64.9	2.00	"	77.2		84.1	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	65.6	5.00	"	76.0		86.3	50-130				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	84.9	2.00	"	76.8		111	50-130				
Perfluoro-n-butanoic acid (PFBA)	78.6	2.00	"	80.0		98.2	50-130				
Surrogate: M3PFBS	*45.5*		"	*74.3*		*61.2*	*25-150*				
Surrogate: M5PFHxA	*50.5*		"	*80.0*		*63.1*	*25-150*				
Surrogate: M4PFHpA	*54.9*		"	*80.0*		*68.6*	*25-150*				
Surrogate: M3PFHxS	*48.6*		"	*75.7*		*64.2*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*49.4*		"	*80.0*		*61.8*	*25-150*				
Surrogate: M6PFDA	*56.5*		"	*80.0*		*70.7*	*25-150*				
Surrogate: M7PFUdA	*47.2*		"	*80.0*		*59.0*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*45.6*		"	*80.0*		*57.0*	*25-150*				
Surrogate: M2PFTeDA	*31.0*		"	*80.0*		*38.7*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*68.6*		"	*80.0*		*85.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*46.0*		"	*76.6*		*60.0*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*49.5*		"	*80.0*		*61.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*49.4*		"	*80.0*		*61.7*	*10-150*				
Surrogate: d3-N-MeFOSAA	*53.9*		"	*80.0*		*67.3*	*25-150*				
Surrogate: d5-N-EtFOSAA	*47.4*		"	*80.0*		*59.3*	*25-150*				
Surrogate: M2-6:2 FTS	*59.8*		"	*75.9*		*78.8*	*25-150*				
Surrogate: M2-8:2 FTS	*60.8*		"	*76.6*		*79.4*	*25-150*				
Surrogate: M9PFNA	*52.5*		"	*80.0*		*65.6*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00144 - SPE Ext-PFAS-EPA 537.1M											
LCS (BE00144-BS2) LCS									Prepared: 05/05/2020 Analyzed: 05/08/2020		
Perfluorobutanesulfonic acid (PFBS)	71.0	2.00	ng/L	70.8		100	50-130				
Perfluorohexanoic acid (PFHxA)	71.9	2.00	"	80.0		89.9	50-130				
Perfluoroheptanoic acid (PFHpA)	68.8	2.00	"	80.0		85.9	50-130				
Perfluorohexanesulfonic acid (PFHxS)	57.9	2.00	"	59.2		97.8	50-130				
Perfluorooctanoic acid (PFOA)	73.5	2.00	"	80.0		91.9	50-130				
Perfluorooctanesulfonic acid (PFOS)	53.3	2.00	"	58.4		91.3	50-130				
Perfluorononanoic acid (PFNA)	69.4	2.00	"	76.8		90.4	50-130				
Perfluorodecanoic acid (PFDA)	75.0	2.00	"	80.0		93.8	50-130				
Perfluoroundecanoic acid (PFUnA)	76.6	2.00	"	80.0		95.7	50-130				
Perfluorododecanoic acid (PFDoA)	73.2	2.00	"	80.0		91.5	50-130				
Perfluorotridecanoic acid (PFTrDA)	65.2	2.00	"	80.0		81.5	50-130				
Perfluorotetradecanoic acid (PFTA)	78.0	2.00	"	80.0		97.5	50-130				
N-MeFOSAA	69.9	2.00	"	80.0		87.4	50-130				
N-EtFOSAA	73.0	2.00	"	80.0		91.3	50-130				
Perfluoropentanoic acid (PFPeA)	75.0	2.00	"	80.0		93.7	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	79.0	2.00	"	80.0		98.8	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	85.9	2.00	"	79.6		108	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	68.4	2.00	"	77.2		88.6	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	77.0	5.00	"	76.0		101	50-130				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	83.7	2.00	"	76.8		109	50-130				
Perfluoro-n-butanoic acid (PFBA)	78.1	2.00	"	80.0		97.7	50-130				
Surrogate: M3PFBS	*39.6*		"	*74.3*		*53.3*	*25-150*				
Surrogate: M5PFHxA	*44.4*		"	*80.0*		*55.5*	*25-150*				
Surrogate: M4PFHpA	*48.2*		"	*80.0*		*60.2*	*25-150*				
Surrogate: M3PFHxS	*41.9*		"	*75.7*		*55.4*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*45.7*		"	*80.0*		*57.1*	*25-150*				
Surrogate: M6PFDA	*48.6*		"	*80.0*		*60.7*	*25-150*				
Surrogate: M7PFUdA	*43.4*		"	*80.0*		*54.2*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*43.9*		"	*80.0*		*54.9*	*25-150*				
Surrogate: M2PFTeDA	*33.5*		"	*80.0*		*41.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*58.4*		"	*80.0*		*73.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*41.8*		"	*76.6*		*54.6*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*42.4*		"	*80.0*		*53.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*40.0*		"	*80.0*		*50.0*	*10-150*				
Surrogate: d3-N-MeFOSAA	*48.2*		"	*80.0*		*60.3*	*25-150*				
Surrogate: d5-N-EtFOSAA	*44.1*		"	*80.0*		*55.1*	*25-150*				
Surrogate: M2-6:2 FTS	*46.8*		"	*75.9*		*61.6*	*25-150*				
Surrogate: M2-8:2 FTS	*49.3*		"	*76.6*		*64.4*	*25-150*				
Surrogate: M9PFNA	*46.6*		"	*80.0*		*58.3*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00144 - SPE Ext-PFAS-EPA 537.1M											
LCS (BE00144-BS3) LCS									Prepared: 05/05/2020 Analyzed: 05/08/2020		
Perfluorobutanesulfonic acid (PFBS)	75.0	2.00	ng/L	70.8		106	50-130				
Perfluorohexanoic acid (PFHxA)	78.1	2.00	"	80.0		97.6	50-130				
Perfluoroheptanoic acid (PFHpA)	70.3	2.00	"	80.0		87.9	50-130				
Perfluorohexanesulfonic acid (PFHxS)	58.9	2.00	"	59.2		99.5	50-130				
Perfluorooctanoic acid (PFOA)	75.9	2.00	"	80.0		94.9	50-130				
Perfluorooctanesulfonic acid (PFOS)	60.4	2.00	"	58.4		104	50-130				
Perfluorononanoic acid (PFNA)	74.1	2.00	"	76.8		96.4	50-130				
Perfluorodecanoic acid (PFDA)	80.5	2.00	"	80.0		101	50-130				
Perfluoroundecanoic acid (PFUnA)	76.4	2.00	"	80.0		95.6	50-130				
Perfluorododecanoic acid (PFDoA)	75.8	2.00	"	80.0		94.8	50-130				
Perfluorotridecanoic acid (PFTrDA)	64.1	2.00	"	80.0		80.1	50-130				
Perfluorotetradecanoic acid (PFTA)	78.8	2.00	"	80.0		98.5	50-130				
N-MeFOSAA	73.5	2.00	"	80.0		91.9	50-130				
N-EtFOSAA	78.0	2.00	"	80.0		97.5	50-130				
Perfluoropentanoic acid (PFPeA)	76.3	2.00	"	80.0		95.4	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	82.9	2.00	"	80.0		104	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	88.8	2.00	"	79.6		112	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	68.6	2.00	"	77.2		88.8	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	69.4	5.00	"	76.0		91.4	50-130				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	85.4	2.00	"	76.8		111	50-130				
Perfluoro-n-butanoic acid (PFBA)	79.0	2.00	"	80.0		98.7	50-130				
Surrogate: M3PFBS	*41.0*		"	*74.3*		*55.2*	*25-150*				
Surrogate: M5PFHxA	*43.5*		"	*80.0*		*54.3*	*25-150*				
Surrogate: M4PFHpA	*48.8*		"	*80.0*		*61.0*	*25-150*				
Surrogate: M3PFHxS	*43.1*		"	*75.7*		*56.9*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*46.8*		"	*80.0*		*58.4*	*25-150*				
Surrogate: M6PFDA	*48.3*		"	*80.0*		*60.4*	*25-150*				
Surrogate: M7PFUdA	*43.9*		"	*80.0*		*54.9*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*42.8*		"	*80.0*		*53.5*	*25-150*				
Surrogate: M2PFTeDA	*29.3*		"	*80.0*		*36.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*51.0*		"	*80.0*		*63.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*41.5*		"	*76.6*		*54.2*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*42.7*		"	*80.0*		*53.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*39.7*		"	*80.0*		*49.6*	*10-150*				
Surrogate: d3-N-MeFOSAA	*47.1*		"	*80.0*		*58.8*	*25-150*				
Surrogate: d5-N-EtFOSAA	*41.8*		"	*80.0*		*52.2*	*25-150*				
Surrogate: M2-6:2 FTS	*52.6*		"	*75.9*		*69.2*	*25-150*				
Surrogate: M2-8:2 FTS	*55.9*		"	*76.6*		*72.9*	*25-150*				
Surrogate: M9PFNA	*45.6*		"	*80.0*		*57.0*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

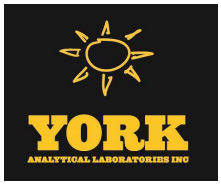
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00144 - SPE Ext-PFAS-EPA 537.1M											
LCS (BE00144-BS4) LCS									Prepared: 05/05/2020 Analyzed: 05/08/2020		
Perfluorobutanesulfonic acid (PFBS)	75.5	2.00	ng/L	70.8		107	50-130				
Perfluorohexanoic acid (PFHxA)	78.6	2.00	"	80.0		98.3	50-130				
Perfluoroheptanoic acid (PFHpA)	69.2	2.00	"	80.0		86.5	50-130				
Perfluorohexanesulfonic acid (PFHxS)	57.4	2.00	"	59.2		97.0	50-130				
Perfluorooctanoic acid (PFOA)	74.9	2.00	"	80.0		93.6	50-130				
Perfluorooctanesulfonic acid (PFOS)	60.7	2.00	"	58.4		104	50-130				
Perfluorononanoic acid (PFNA)	74.6	2.00	"	76.8		97.1	50-130				
Perfluorodecanoic acid (PFDA)	72.5	2.00	"	80.0		90.6	50-130				
Perfluoroundecanoic acid (PFUnA)	74.2	2.00	"	80.0		92.8	50-130				
Perfluorododecanoic acid (PFDoA)	75.8	2.00	"	80.0		94.7	50-130				
Perfluorotridecanoic acid (PFTrDA)	70.2	2.00	"	80.0		87.8	50-130				
Perfluorotetradecanoic acid (PFTA)	79.7	2.00	"	80.0		99.6	50-130				
N-MeFOSAA	75.7	2.00	"	80.0		94.7	50-130				
N-EtFOSAA	76.6	2.00	"	80.0		95.7	50-130				
Perfluoropentanoic acid (PFPeA)	78.1	2.00	"	80.0		97.6	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	77.7	2.00	"	80.0		97.1	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	88.9	2.00	"	79.6		112	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	72.2	2.00	"	77.2		93.6	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	65.1	5.00	"	76.0		85.6	50-130				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	86.4	2.00	"	76.8		113	50-130				
Perfluoro-n-butanoic acid (PFBA)	79.8	2.00	"	80.0		99.7	50-130				
Surrogate: M3PFBS	*43.9*		"	*74.3*		*59.0*	*25-150*				
Surrogate: M5PFHxA	*47.2*		"	*80.0*		*59.0*	*25-150*				
Surrogate: M4PFHpA	*52.3*		"	*80.0*		*65.4*	*25-150*				
Surrogate: M3PFHxS	*47.0*		"	*75.7*		*62.1*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*48.5*		"	*80.0*		*60.7*	*25-150*				
Surrogate: M6PFDA	*53.7*		"	*80.0*		*67.1*	*25-150*				
Surrogate: M7PFUdA	*48.1*		"	*80.0*		*60.1*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*47.7*		"	*80.0*		*59.6*	*25-150*				
Surrogate: M2PFTeDA	*39.3*		"	*80.0*		*49.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*66.0*		"	*80.0*		*82.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*44.4*		"	*76.6*		*58.0*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*47.2*		"	*80.0*		*59.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*42.4*		"	*80.0*		*53.0*	*10-150*				
Surrogate: d3-N-MeFOSAA	*50.1*		"	*80.0*		*62.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*44.9*		"	*80.0*		*56.1*	*25-150*				
Surrogate: M2-6:2 FTS	*56.0*		"	*75.9*		*73.8*	*25-150*				
Surrogate: M2-8:2 FTS	*55.5*		"	*76.6*		*72.4*	*25-150*				
Surrogate: M9PFNA	*49.6*		"	*80.0*		*61.9*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00144 - SPE Ext-PFAS-EPA 537.1M											
Duplicate (BE00144-DUP1) Duplicate	*Source sample: 20D0849-11 (MW06_043020)								Prepared: 05/05/2020 Analyzed: 05/08/2020		
Perfluorobutanesulfonic acid (PFBS)	9.21	2.00	ng/L		9.45				2.61	30	
Perfluorohexanoic acid (PFHxA)	18.4	2.00	"		22.3				19.1	30	
Perfluoroheptanoic acid (PFHpA)	18.3	2.00	"		20.5				11.6	30	
Perfluorohexanesulfonic acid (PFHxS)	2.49	2.00	"		2.69				7.91	30	
Perfluorooctanoic acid (PFOA)	175	2.00	"		178				1.85	30	
Perfluorooctanesulfonic acid (PFOS)	134	2.00	"		130				3.07	30	
Perfluorononanoic acid (PFNA)	9.77	2.00	"		9.87				1.00	30	
Perfluorodecanoic acid (PFDA)	2.77	2.00	"		2.52				9.52	30	
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"		ND					30	
Perfluorododecanoic acid (PFDoA)	ND	2.00	"		ND					30	
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"		ND					30	
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"		0.537					30	
N-MeFOSAA	ND	2.00	"		ND					30	
N-EtFOSAA	ND	2.00	"		0.726					30	
Perfluoropentanoic acid (PFPeA)	16.1	2.00	"		23.2				36.3	30	Non-dir.
Perfluoro-1-octanesulfonamide (FOSA)	0.574	2.00	"		0.700				19.7	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	1.05	2.00	"		0.894				15.6	30	
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"		ND					30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	5.00	"		ND					30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	2.00	"		ND					30	
Perfluoro-n-butanoic acid (PFBA)	17.3	2.00	"		18.2				4.91	30	
Surrogate: M3PFBS	*34.4*		"	*74.3*		*46.3*	*25-150*				
Surrogate: M5PFHxA	*36.0*		"	*80.0*		*45.0*	*25-150*				
Surrogate: M4PFHpA	*42.8*		"	*80.0*		*53.5*	*25-150*				
Surrogate: M3PFHxS	*38.4*		"	*75.7*		*50.7*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*43.0*		"	*80.0*		*53.8*	*25-150*				
Surrogate: M6PFDA	*36.8*		"	*80.0*		*46.0*	*25-150*				
Surrogate: M7PFUdA	*21.2*		"	*80.0*		*26.5*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*8.58*		"	*80.0*		*10.7*	*25-150*				
Surrogate: M2PFTeDA	*5.47*		"	*80.0*		*6.84*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*35.4*		"	*80.0*		*44.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*33.5*		"	*76.6*		*43.7*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*32.7*		"	*80.0*		*40.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*7.69*		"	*80.0*		*9.62*	*10-150*				
Surrogate: d3-N-MeFOSAA	*27.8*		"	*80.0*		*34.8*	*25-150*				
Surrogate: d5-N-EtFOSAA	*21.6*		"	*80.0*		*27.0*	*25-150*				
Surrogate: M2-6:2 FTS	*138*		"	*75.9*		*182*	*25-150*				
Surrogate: M2-8:2 FTS	*77.3*		"	*76.6*		*101*	*25-150*				
Surrogate: M9PFNA	*45.6*		"	*80.0*		*57.0*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Batch BE00144 - SPE Ext-PFAS-EPA 537.1M

Matrix Spike (BE00144-MS1) Matrix Spike *Source sample: 20D0849-12 (MW08_043020) Prepared: 05/05/2020 Analyzed: 05/08/2020

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Perfluorobutanesulfonic acid (PFBS)	79.5	2.00	ng/L	70.8	0.933	111	25-150				
Perfluorohexanoic acid (PFHxA)	83.6	2.00	"	80.0	3.22	100	25-150				
Perfluoroheptanoic acid (PFHpA)	71.2	2.00	"	80.0	2.59	85.8	25-150				
Perfluorohexanesulfonic acid (PFHxS)	73.5	2.00	"	59.2	0.618	123	25-150				
Perfluorooctanoic acid (PFOA)	102	2.00	"	80.0	27.7	93.4	25-150				
Perfluorooctanesulfonic acid (PFOS)	92.4	2.00	"	58.4	10.9	140	25-150				
Perfluorononanoic acid (PFNA)	72.6	2.00	"	76.8	0.984	93.2	25-150				
Perfluorodecanoic acid (PFDA)	77.6	2.00	"	80.0	ND	97.0	25-150				
Perfluoroundecanoic acid (PFUnA)	78.0	2.00	"	80.0	ND	97.5	25-150				
Perfluorododecanoic acid (PFDoA)	78.4	2.00	"	80.0	ND	97.9	25-150				
Perfluorotridecanoic acid (PFTrDA)	54.5	2.00	"	80.0	ND	68.2	25-150				
Perfluorotetradecanoic acid (PFTA)	77.3	2.00	"	80.0	0.671	95.8	25-150				
N-MeFOSAA	75.7	2.00	"	80.0	0.712	93.7	25-150				
N-EtFOSAA	86.7	2.00	"	80.0	ND	108	25-150				
Perfluoropentanoic acid (PFPeA)	80.1	2.00	"	80.0	3.08	96.3	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	83.9	2.00	"	80.0	0.816	104	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	94.1	2.00	"	79.6	ND	118	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	64.0	2.00	"	77.2	ND	82.9	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	72.5	5.00	"	76.0	ND	95.4	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	86.2	2.00	"	76.8	ND	112	25-150				
Perfluoro-n-butanoic acid (PFBA)	83.1	2.00	"	80.0	5.47	97.0	25-150				
Surrogate: M3PFBS	*37.2*		"	*74.3*		*50.0*	*25-150*				
Surrogate: M5PFHxA	*39.9*		"	*80.0*		*49.9*	*25-150*				
Surrogate: M4PFHpA	*49.6*		"	*80.0*		*62.0*	*25-150*				
Surrogate: M3PFHxS	*42.2*		"	*75.7*		*55.8*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*43.9*		"	*80.0*		*54.8*	*25-150*				
Surrogate: M6PFDA	*45.4*		"	*80.0*		*56.7*	*25-150*				
Surrogate: M7PFUdA	*36.1*		"	*80.0*		*45.1*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*30.8*		"	*80.0*		*38.5*	*25-150*				
Surrogate: M2PFTeDA	*11.5*		"	*80.0*		*14.4*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*47.5*		"	*80.0*		*59.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*39.2*		"	*76.6*		*51.2*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*38.1*		"	*80.0*		*47.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*33.6*		"	*80.0*		*42.0*	*10-150*				
Surrogate: d3-N-MeFOSAA	*38.3*		"	*80.0*		*47.8*	*25-150*				
Surrogate: d5-N-EtFOSAA	*32.7*		"	*80.0*		*40.9*	*25-150*				
Surrogate: M2-6:2 FTS	*67.4*		"	*75.9*		*88.8*	*25-150*				
Surrogate: M2-8:2 FTS	*52.2*		"	*76.6*		*68.1*	*25-150*				
Surrogate: M9PFNA	*45.7*		"	*80.0*		*57.1*	*25-150*				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00012 - % Solids Prep											
Duplicate (BE00012-DUP1) Duplicate	*Source sample: 20D0849-04 (SB12_0-2)							Prepared & Analyzed: 05/01/2020			
% Solids	88.9	0.100	%		90.8				2.10	20	

Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-CCV-H	The CCV recovery was slightly above acceptable limits for the qualified compound. However, sample results are not biased high because results are corrected for isotope recovery.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 20D0849

YOUR Information	Report To:	Invoice To:
Company: Langan	Company:	Company: same
Address: 360 west 31st street New York NY 10001	Address:	Address: same
Phone: 212 479 5400	Phone:	Phone: same
Contact: Kim Serven	Contact: Dina Palazzolo	Contact: same
E-mail: kserven@langan.com	E-mail: DPalazzolo@langan.com	E-mail: same

YOUR Project Number: 170610601

YOUR Project Name: 475 Bay Street

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)
Deirdre Casey

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil; Other

Samples From: New York X; New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections): Summary Report; QA Report; NY ASP A Package; ~~NY ASP B Package~~; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB16_0-2	S	4/30 0915	PFAS & 1,4 dioxane	1)8oz, 1)4oz, 4 VOAs
SB16_14-16	S	4/30 0920		1)250ml
SB16_18-20	S	4/30 0925		
SB12_0-2	S	4/30 1145		
SB12_8-10	S	4/30 1150		
SB12_18-20	S	4/30 1155		
MS-S001_043020	S	4/30 1145		
MSD-S001_043020	S	4/30 1145		
SB11_0-2	S	4/30 1440		
SB11_10-12	S	4/30 1445		

Comments:
MS/MSD-S001-043020 ~~Dup~~ Parent sample SB12_0-2

Preservation: (check all that apply)
HCl ___ MeOH X HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction: Field Filtered ___ Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Deirdre Casey Langan	4/30/20 1740		4/30/20		4/30/20 1938
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				TC	4/30/20 1938 / 1.2 Degrees C

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 20D0849

YOUR Information	Report To:	Invoice To:
Company: Langan	Company:	Company: same
Address: 360 west 31st Street, New York, NY 10001	Address:	Address: same
Phone: 212 479 5400	Phone:	Phone: same
Contact: K Semon	Contact: Dina Palazzolo	Contact: same
E-mail: ksemon@langan.com	E-mail: DPalazzolo@langan.com	E-mail: same

YOUR Project Number: 170610601

YOUR Project Name: 475 Bay Street

YOUR PO#:

Turn-Around Time
- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Deirdre Casey

Samples Collected by: (print your name above and sign below)

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil; Other

Samples From: New York X; New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections): Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB11_18-20	S	4/30 1450	PFAS & 1,4 dioxane	(QNE, (1)) 4oz, 3VOA, (1)250
SOFB02-043020	QA/QC	4/30 1200	PFAS & 1,4 dioxane	(6) 1L, (4) 250, 3 VOA
MW06_043020	GW	4/30 1414		
MW08_043020	GW	4/30 1055		
MW05_043020	GW	4/30		
GWDUP01_043020	GW	4/30 —		
GWFBOL_043020	QA/QC	4/30 1400		
GWTBOL_043020	QA/QC	4/30 —		

Comments:

Preservation: (check all that apply) HCl X MeOH X HNO_3 X H_2SO_4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction: Field Filtered X; Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Amelyn Langan	4/30/20 1740		4/30/20		4/30/20 1938
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				TC	4/30/20 1938 / 1.2 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Dina Palazzolo, Ms.

Report Date: 05/06/2020
Client Project ID: 170610601
York Project (SDG) No.: 20E0004

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 05/06/2020
Client Project ID: 170610601
York Project (SDG) No.: 20E0004

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Dina Palazzolo, Ms.

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 30, 2020 and listed below. The project was identified as your project: **170610601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
20E0004-01	SV04_043020	Soil Vapor	04/30/2020	04/30/2020
20E0004-02	SV07_043020	Soil Vapor	04/30/2020	04/30/2020
20E0004-03	AA01_043020	Outdoor Ambient Ai	04/30/2020	04/30/2020
20E0004-04	SS08_043020	Soil Vapor	04/30/2020	04/30/2020
20E0004-05	SS09_043020	Soil Vapor	04/30/2020	04/30/2020
20E0004-06	IA08_043020	Indoor Ambient Air	04/30/2020	04/30/2020
20E0004-07	IA09_043020	Indoor Ambient Air	04/30/2020	04/30/2020

General Notes for York Project (SDG) No.: 20E0004

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 05/06/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: SV04_043020 **York Sample ID:** 20E0004-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 2:33 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.1	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.87	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.1	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.87	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.64	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.16	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.2	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	**1,2,4-Trimethylbenzene**	**20**		ug/m³	0.78	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.2	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.96	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.64	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.73	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	**1,3,5-Trimethylbenzene**	**8.0**		ug/m³	0.78	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	1.1	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.96	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.73	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.96	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**11**		ug/m³	0.47	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: SV04_043020 **York Sample ID:** 20E0004-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 2:33 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	*** 2-Hexanone**	**3.5**		ug/m³	1.3	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	2.5	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.65	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-64-1	**Acetone**	**54**		ug/m³	0.76	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-13-1	Acrylonitrile	ND		ug/m³	0.35	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
71-43-2	**Benzene**	**2.1**		ug/m³	0.51	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
100-44-7	Benzyl chloride	ND		ug/m³	0.82	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-27-4	Bromodichloromethane	ND		ug/m³	1.1	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-25-2	Bromoform	ND		ug/m³	1.6	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-83-9	Bromomethane	ND		ug/m³	0.62	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-15-0	**Carbon disulfide**	**4.0**		ug/m³	0.50	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
56-23-5	**Carbon tetrachloride**	**0.40**		ug/m³	0.25	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-90-7	Chlorobenzene	ND		ug/m³	0.73	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-00-3	Chloroethane	ND		ug/m³	0.42	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-66-3	**Chloroform**	**5.0**		ug/m³	0.78	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-87-3	**Chloromethane**	**0.79**		ug/m³	0.33	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.16	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.72	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-82-7	**Cyclohexane**	**1.5**		ug/m³	0.55	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
124-48-1	Dibromochloromethane	ND		ug/m³	1.4	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-71-8	**Dichlorodifluoromethane**	**2.5**		ug/m³	0.79	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:			

Sample Information

Client Sample ID: SV04_043020 **York Sample ID:** 20E0004-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 2:33 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	**Ethyl Benzene**	**3.0**		ug/m³	0.69	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.7	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-63-0	**Isopropanol**	**29**		ug/m³	0.78	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
80-62-6	**Methyl Methacrylate**	**15**		ug/m³	0.65	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.57	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-09-2	Methylene chloride	ND		ug/m³	1.1	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
142-82-5	**n-Heptane**	**8.8**		ug/m³	0.65	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-54-3	**n-Hexane**	**3.5**		ug/m³	0.56	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
95-47-6	**o-Xylene**	**6.8**		ug/m³	0.69	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
179601-23-1	**p- & m- Xylenes**	**13**		ug/m³	1.4	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
622-96-8	*** p-Ethyltoluene**	**11**		ug/m³	0.78	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.27	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.68	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
127-18-4	**Tetrachloroethylene**	**13**	TO-CCV, TO-LCS-L	ug/m³	1.1	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.94	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:			
108-88-3	**Toluene**	**8.5**		ug/m³	0.60	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.63	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.72	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
79-01-6	Trichloroethylene	ND		ug/m³	0.21	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.7**		ug/m³	0.89	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-05-4	Vinyl acetate	ND		ug/m³	0.56	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: SV04_043020 **York Sample ID:** 20E0004-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 2:33 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
593-60-2	Vinyl bromide	ND		ug/m³	0.70	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ug/m³	0.20	1.59	EPA TO-15	05/01/2020 09:00	05/02/2020 01:03	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*116 %*	*70-130*

Sample Information

Client Sample ID: SV07_043020 **York Sample ID:** 20E0004-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 2:30 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.1	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.88	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.1	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.88	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.65	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.16	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.2	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	**1,2,4-Trimethylbenzene**	**28**		ug/m³	0.79	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.2	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.97	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.65	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.74	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	**1,3,5-Trimethylbenzene**	**12**		ug/m³	0.79	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	**1,3-Butadiene**	**1.1**		ug/m³	1.1	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.97	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.74	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.97	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	1.2	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**8.9**		ug/m³	0.47	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	*** 2-Hexanone**	**2.9**		ug/m³	1.3	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:			

Sample Information

Client Sample ID: SV07_043020 **York Sample ID:** 20E0004-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 2:30 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	2.5	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-10-1	**4-Methyl-2-pentanone**	**0.79**		ug/m³	0.66	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-64-1	**Acetone**	**29**		ug/m³	0.76	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-13-1	Acrylonitrile	ND		ug/m³	0.35	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
71-43-2	**Benzene**	**9.9**		ug/m³	0.51	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
100-44-7	Benzyl chloride	ND		ug/m³	0.83	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-27-4	Bromodichloromethane	ND		ug/m³	1.1	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-25-2	Bromoform	ND		ug/m³	1.7	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-83-9	Bromomethane	ND		ug/m³	0.62	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-15-0	**Carbon disulfide**	**13**		ug/m³	0.50	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
56-23-5	Carbon tetrachloride	ND		ug/m³	0.25	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-90-7	Chlorobenzene	ND		ug/m³	0.74	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-00-3	**Chloroethane**	**1.1**		ug/m³	0.42	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-66-3	**Chloroform**	**4.2**		ug/m³	0.78	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-87-3	Chloromethane	ND		ug/m³	0.33	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.16	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.73	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-82-7	**Cyclohexane**	**7.8**		ug/m³	0.55	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
124-48-1	Dibromochloromethane	ND		ug/m³	1.4	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-71-8	**Dichlorodifluoromethane**	**2.2**		ug/m³	0.79	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
141-78-6	* Ethyl acetate	ND		ug/m³	1.2	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:			
100-41-4	**Ethyl Benzene**	**2.7**		ug/m³	0.70	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: SV07_043020 **York Sample ID:** 20E0004-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 2:30 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.7	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	**Isopropanol**	**2.3**		ug/m³	0.79	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.66	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.58	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	Methylene chloride	ND		ug/m³	1.1	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	**n-Heptane**	**11**		ug/m³	0.66	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	**n-Hexane**	**22**		ug/m³	0.57	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**6.8**		ug/m³	0.70	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**12**		ug/m³	1.4	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	*** p-Ethyltoluene**	**14**		ug/m³	0.79	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.28	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.68	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	**Tetrachloroethylene**	**13**	TO-CCV, TO-LCS-L	ug/m³	1.1	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.95	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:			
108-88-3	**Toluene**	**13**		ug/m³	0.61	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.64	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.73	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.22	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**2.1**		ug/m³	0.90	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.57	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.70	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: SV07_043020 **York Sample ID:** 20E0004-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 2:30 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.21	1.607	EPA TO-15	05/01/2020 09:00	05/02/2020 01:55	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*113 %*	*70-130*

Sample Information

Client Sample ID: AA01_043020 **York Sample ID:** 20E0004-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Outdoor Ambient Air	April 30, 2020 2:31 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.55	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.44	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.55	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.61	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.44	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.32	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.079	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.60	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.39	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.62	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.48	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.32	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.37	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.56	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.39	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	0.53	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.48	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.37	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.48	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	0.58	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**1.0**		ug/m³	0.24	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	* 2-Hexanone	ND		ug/m³	0.66	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:			

Sample Information

Client Sample ID: AA01_043020 **York Sample ID:** 20E0004-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Outdoor Ambient Air	April 30, 2020 2:31 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	1.3	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.33	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-64-1	**Acetone**	**6.6**		ug/m³	0.38	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-13-1	Acrylonitrile	ND		ug/m³	0.17	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
71-43-2	**Benzene**	**0.41**		ug/m³	0.26	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
100-44-7	Benzyl chloride	ND		ug/m³	0.42	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-27-4	Bromodichloromethane	ND		ug/m³	0.54	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-25-2	Bromoform	ND		ug/m³	0.83	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-83-9	Bromomethane	ND		ug/m³	0.31	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-15-0	Carbon disulfide	ND		ug/m³	0.25	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
56-23-5	**Carbon tetrachloride**	**0.50**		ug/m³	0.13	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-90-7	Chlorobenzene	ND		ug/m³	0.37	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-00-3	Chloroethane	ND		ug/m³	0.21	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-66-3	Chloroform	ND		ug/m³	0.39	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-87-3	**Chloromethane**	**1.2**		ug/m³	0.17	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.079	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.36	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-82-7	Cyclohexane	ND		ug/m³	0.28	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
124-48-1	Dibromochloromethane	ND		ug/m³	0.68	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-71-8	**Dichlorodifluoromethane**	**1.6**		ug/m³	0.40	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
141-78-6	* Ethyl acetate	ND		ug/m³	0.58	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:			
100-41-4	**Ethyl Benzene**	**0.38**		ug/m³	0.35	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: AA01_043020 **York Sample ID:** 20E0004-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Outdoor Ambient Air	April 30, 2020 2:31 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.86	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	**Isopropanol**	**26**		ug/m³	0.39	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	**Methyl Methacrylate**	**6.1**		ug/m³	0.33	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.29	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	**Methylene chloride**	**1.5**		ug/m³	0.56	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	n-Heptane	ND		ug/m³	0.33	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	**n-Hexane**	**0.42**		ug/m³	0.28	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**0.38**		ug/m³	0.35	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**1.1**		ug/m³	0.70	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.39	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.14	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:			
100-42-5	**Styrene**	**0.34**		ug/m³	0.34	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	Tetrachloroethylene	ND		ug/m³	0.54	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.47	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:			
108-88-3	**Toluene**	**2.2**		ug/m³	0.30	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.32	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.36	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.11	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.4**		ug/m³	0.45	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.28	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.35	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ug/m³	0.10	0.802	EPA TO-15	05/05/2020 09:00	05/05/2020 23:36	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: AA01_043020 **York Sample ID:** 20E0004-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Outdoor Ambient Air	April 30, 2020 2:31 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*110 %*		*70-130*						

Sample Information

Client Sample ID: SS08_043020 **York Sample ID:** 20E0004-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 5:13 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.2	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.92	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.2	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.3	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.92	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.68	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.17	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.2	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	**1,2,4-Trimethylbenzene**	**9.9**		ug/m³	0.83	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.3	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	1.0	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.68	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.78	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.2	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	**1,3,5-Trimethylbenzene**	**2.6**		ug/m³	0.83	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	1.1	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	1.0	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.78	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	1.0	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	1.2	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**1.2**		ug/m³	0.50	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	* 2-Hexanone	ND		ug/m³	1.4	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:			

Sample Information

Client Sample ID: SS08_043020 **York Sample ID:** 20E0004-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 5:13 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	2.6	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.69	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-64-1	**Acetone**	**6.7**		ug/m³	0.80	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-13-1	Acrylonitrile	ND		ug/m³	0.36	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
71-43-2	**Benzene**	**3.1**		ug/m³	0.54	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
100-44-7	Benzyl chloride	ND		ug/m³	0.87	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-27-4	Bromodichloromethane	ND		ug/m³	1.1	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-25-2	Bromoform	ND		ug/m³	1.7	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-83-9	Bromomethane	ND		ug/m³	0.65	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-15-0	**Carbon disulfide**	**1.2**		ug/m³	0.52	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
56-23-5	**Carbon tetrachloride**	**0.42**		ug/m³	0.26	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-90-7	Chlorobenzene	ND		ug/m³	0.77	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-00-3	Chloroethane	ND		ug/m³	0.44	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-66-3	**Chloroform**	**9.9**		ug/m³	0.82	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-87-3	Chloromethane	ND		ug/m³	0.35	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.17	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.76	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-82-7	**Cyclohexane**	**1.3**		ug/m³	0.58	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
124-48-1	Dibromochloromethane	ND		ug/m³	1.4	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-71-8	**Dichlorodifluoromethane**	**2.3**		ug/m³	0.83	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
141-78-6	* Ethyl acetate	ND		ug/m³	1.2	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:			
100-41-4	**Ethyl Benzene**	**14**		ug/m³	0.73	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: SS08_043020 **York Sample ID:** 20E0004-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 5:13 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.8	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	**Isopropanol**	**4.8**		ug/m³	0.83	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.69	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.61	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	Methylene chloride	ND		ug/m³	1.2	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	**n-Heptane**	**6.1**		ug/m³	0.69	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	**n-Hexane**	**5.8**		ug/m³	0.59	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**13**		ug/m³	0.73	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**55**		ug/m³	1.5	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	*** p-Ethyltoluene**	**13**		ug/m³	0.83	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.29	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:			
100-42-5	**Styrene**	**1.6**		ug/m³	0.72	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	**Tetrachloroethylene**	**35**	TO-CCV, TO-LCS-L	ug/m³	1.1	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.99	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:			
108-88-3	**Toluene**	**55**		ug/m³	0.63	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.67	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.76	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.23	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.3**		ug/m³	0.94	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.59	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.74	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: SS08_043020 **York Sample ID:** 20E0004-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 5:13 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.21	1.681	EPA TO-15	05/01/2020 09:00	05/02/2020 03:40	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*70-130*

Sample Information

Client Sample ID: SS09_043020 **York Sample ID:** 20E0004-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 5:12 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.2	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.92	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.2	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.3	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.92	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.68	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.17	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.2	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	**1,2,4-Trimethylbenzene**	**17**		ug/m³	0.83	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.3	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	1.0	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.68	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.78	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.2	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	**1,3,5-Trimethylbenzene**	**3.8**		ug/m³	0.83	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	1.1	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	1.0	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.78	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	1.0	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	1.2	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**1.1**		ug/m³	0.50	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	* 2-Hexanone	ND		ug/m³	1.4	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:			

Sample Information

Client Sample ID: SS09_043020 **York Sample ID:** 20E0004-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 5:12 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	2.6	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.69	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-64-1	**Acetone**	**4.8**		ug/m³	0.80	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-13-1	Acrylonitrile	ND		ug/m³	0.37	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
71-43-2	**Benzene**	**2.4**		ug/m³	0.54	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
100-44-7	Benzyl chloride	ND		ug/m³	0.87	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-27-4	Bromodichloromethane	ND		ug/m³	1.1	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-25-2	Bromoform	ND		ug/m³	1.7	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-83-9	Bromomethane	ND		ug/m³	0.65	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-15-0	**Carbon disulfide**	**4.2**		ug/m³	0.52	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
56-23-5	Carbon tetrachloride	ND		ug/m³	0.26	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-90-7	Chlorobenzene	ND		ug/m³	0.77	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-00-3	Chloroethane	ND		ug/m³	0.44	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-66-3	**Chloroform**	**0.99**		ug/m³	0.82	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-87-3	Chloromethane	ND		ug/m³	0.35	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.17	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.76	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-82-7	**Cyclohexane**	**3.2**		ug/m³	0.58	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
124-48-1	Dibromochloromethane	ND		ug/m³	1.4	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-71-8	**Dichlorodifluoromethane**	**2.6**		ug/m³	0.83	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
141-78-6	* Ethyl acetate	ND		ug/m³	1.2	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:			
100-41-4	**Ethyl Benzene**	**19**		ug/m³	0.73	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: SS09_043020 **York Sample ID:** 20E0004-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 5:12 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.8	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	**Isopropanol**	**4.9**		ug/m³	0.83	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.69	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**10**		ug/m³	0.61	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	Methylene chloride	ND		ug/m³	1.2	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	**n-Heptane**	**16**		ug/m³	0.69	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	**n-Hexane**	**6.5**		ug/m³	0.59	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**19**		ug/m³	0.73	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**76**		ug/m³	1.5	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	*** p-Ethyltoluene**	**22**		ug/m³	0.83	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.29	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:			
100-42-5	**Styrene**	**2.2**		ug/m³	0.72	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	**Tetrachloroethylene**	**20**	TO-CCV, TO-LCS-L	ug/m³	1.1	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.99	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:			
108-88-3	**Toluene**	**50**		ug/m³	0.63	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.67	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.76	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.23	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.1**		ug/m³	0.95	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.59	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.74	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: SS09_043020 **York Sample ID:** 20E0004-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Soil Vapor	April 30, 2020 5:12 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.22	1.683	EPA TO-15	05/01/2020 09:00	05/02/2020 04:32	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*118 %*	*70-130*

Sample Information

Client Sample ID: IA08_043020 **York Sample ID:** 20E0004-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Indoor Ambient Air	April 30, 2020 5:23 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.55	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.44	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.55	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.62	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.44	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.33	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.080	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.60	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	**1,2,4-Trimethylbenzene**	**0.55**		ug/m³	0.40	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.62	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.48	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.33	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.37	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.56	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.40	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	0.53	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.48	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.37	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.48	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	0.58	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**0.76**		ug/m³	0.24	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	* 2-Hexanone	ND		ug/m³	0.66	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:			

Sample Information

Client Sample ID: IA08_043020 **York Sample ID:** 20E0004-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Indoor Ambient Air	April 30, 2020 5:23 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	1.3	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.33	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-64-1	**Acetone**	**8.4**		ug/m³	0.38	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-13-1	Acrylonitrile	ND		ug/m³	0.17	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
71-43-2	**Benzene**	**0.28**		ug/m³	0.26	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
100-44-7	Benzyl chloride	ND		ug/m³	0.42	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-27-4	Bromodichloromethane	ND		ug/m³	0.54	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-25-2	Bromoform	ND		ug/m³	0.83	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-83-9	Bromomethane	ND		ug/m³	0.31	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-15-0	Carbon disulfide	ND		ug/m³	0.25	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
56-23-5	**Carbon tetrachloride**	**0.51**		ug/m³	0.13	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-90-7	Chlorobenzene	ND		ug/m³	0.37	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-00-3	Chloroethane	ND		ug/m³	0.21	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-66-3	Chloroform	ND		ug/m³	0.39	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-87-3	**Chloromethane**	**1.0**		ug/m³	0.17	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.080	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.37	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-82-7	Cyclohexane	ND		ug/m³	0.28	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
124-48-1	Dibromochloromethane	ND		ug/m³	0.69	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-71-8	**Dichlorodifluoromethane**	**1.9**		ug/m³	0.40	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
141-78-6	* Ethyl acetate	ND		ug/m³	0.58	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:			
100-41-4	**Ethyl Benzene**	**0.52**		ug/m³	0.35	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: IA08_043020 **York Sample ID:** 20E0004-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Indoor Ambient Air	April 30, 2020 5:23 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.86	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	**Isopropanol**	**9.8**		ug/m³	0.40	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	**Methyl Methacrylate**	**0.40**		ug/m³	0.33	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.29	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	Methylene chloride	ND		ug/m³	0.56	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	**n-Heptane**	**0.36**		ug/m³	0.33	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	n-Hexane	ND		ug/m³	0.28	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**0.63**		ug/m³	0.35	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**1.9**		ug/m³	0.70	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.40	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.14	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.34	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	Tetrachloroethylene	ND		ug/m³	0.55	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.48	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:			
108-88-3	**Toluene**	**4.7**		ug/m³	0.30	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.32	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.37	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.11	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.3**		ug/m³	0.45	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.28	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.35	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ug/m³	0.10	0.806	EPA TO-15	05/01/2020 09:00	05/02/2020 05:31	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: IA08_043020 **York Sample ID:** 20E0004-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Indoor Ambient Air	April 30, 2020 5:23 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*		*70-130*						

Sample Information

Client Sample ID: IA09_043020 **York Sample ID:** 20E0004-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Indoor Ambient Air	April 30, 2020 5:23 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.65	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.52	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.65	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.73	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.52	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.39	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.094	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.71	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.47	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.73	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.57	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.39	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.44	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.67	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.47	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	0.63	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.57	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.44	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.57	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	0.69	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**0.79**		ug/m³	0.28	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	* 2-Hexanone	ND		ug/m³	0.78	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:			

Sample Information

Client Sample ID: IA09_043020 **York Sample ID:** 20E0004-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Indoor Ambient Air	April 30, 2020 5:23 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	1.5	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.39	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-64-1	**Acetone**	**4.2**		ug/m³	0.45	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-13-1	Acrylonitrile	ND		ug/m³	0.21	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
71-43-2	**Benzene**	**0.30**		ug/m³	0.30	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
100-44-7	Benzyl chloride	ND		ug/m³	0.49	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-27-4	Bromodichloromethane	ND		ug/m³	0.64	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-25-2	Bromoform	ND		ug/m³	0.99	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-83-9	Bromomethane	ND		ug/m³	0.37	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-15-0	Carbon disulfide	ND		ug/m³	0.30	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
56-23-5	**Carbon tetrachloride**	**0.48**		ug/m³	0.15	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-90-7	Chlorobenzene	ND		ug/m³	0.44	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-00-3	Chloroethane	ND		ug/m³	0.25	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-66-3	Chloroform	ND		ug/m³	0.47	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-87-3	**Chloromethane**	**1.1**		ug/m³	0.20	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.094	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.43	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-82-7	Cyclohexane	ND		ug/m³	0.33	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
124-48-1	Dibromochloromethane	ND		ug/m³	0.81	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-71-8	**Dichlorodifluoromethane**	**1.9**		ug/m³	0.47	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
141-78-6	* Ethyl acetate	ND		ug/m³	0.69	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:			
100-41-4	**Ethyl Benzene**	**0.50**		ug/m³	0.41	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: IA09_043020 **York Sample ID:** 20E0004-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Indoor Ambient Air	April 30, 2020 5:23 pm	04/30/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.0	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	**Isopropanol**	**1.6**		ug/m³	0.47	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.39	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.34	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	Methylene chloride	ND		ug/m³	0.66	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	n-Heptane	ND		ug/m³	0.39	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	n-Hexane	ND		ug/m³	0.34	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**0.54**		ug/m³	0.41	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**1.6**		ug/m³	0.83	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.47	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.16	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.41	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	Tetrachloroethylene	ND		ug/m³	0.65	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.56	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:			
108-88-3	**Toluene**	**2.7**		ug/m³	0.36	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.38	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.43	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.13	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.3**		ug/m³	0.54	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.34	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.42	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ug/m³	0.12	0.953	EPA TO-15	05/01/2020 09:00	05/02/2020 06:30	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: IA09_043020 **York Sample ID:** 20E0004-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20E0004	170610601	Indoor Ambient Air	April 30, 2020 5:23 pm	04/30/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*		*70-130*						

Analytical Batch Summary

Batch ID: BE00112 **Preparation Method:** EPA TO15 PREP **Prepared By:** AS

YORK Sample ID	Client Sample ID	Preparation Date
20E0004-01	SV04_043020	05/01/20
20E0004-02	SV07_043020	05/01/20
20E0004-04	SS08_043020	05/01/20
20E0004-05	SS09_043020	05/01/20
20E0004-06	IA08_043020	05/01/20
20E0004-07	IA09_043020	05/01/20
BE00112-BLK1	Blank	05/01/20
BE00112-BS1	LCS	05/01/20
BE00112-DUP1	Duplicate	05/01/20

Batch ID: BE00113 **Preparation Method:** EPA TO15 PREP **Prepared By:** AS

YORK Sample ID	Client Sample ID	Preparation Date
20E0004-03	AA01_043020	05/05/20
BE00113-BLK1	Blank	05/05/20
BE00113-BS1	LCS	05/05/20

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00112 - EPA TO15 PREP											
Blank (BE00112-BLK1) Blank									Prepared: 05/01/2020 Analyzed: 05/02/2020		
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								
n-Heptane	ND	0.41	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

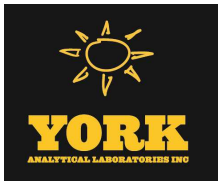
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00112 - EPA TO15 PREP											
Blank (BE00112-BLK1) Blank								Prepared: 05/01/2020 Analyzed: 05/02/2020			
n-Hexane	ND	0.35	ug/m³								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.68	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.13	"								
Surrogate: SURR: p-Bromofluorobenzene	*9.39*		*ppbv*	*10.0*		*93.9*	*70-130*				
LCS (BE00112-BS1) LCS								Prepared & Analyzed: 05/01/2020			
1,1,1,2-Tetrachloroethane	9.70		ppbv	10.0		97.0	70-130				
1,1,1-Trichloroethane	9.85		"	10.0		98.5	70-130				
1,1,2,2-Tetrachloroethane	10.9		"	10.0		109	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.50		"	10.0		95.0	70-130				
1,1,2-Trichloroethane	10.4		"	10.0		104	70-130				
1,1-Dichloroethane	10.0		"	10.0		100	70-130				
1,1-Dichloroethylene	10.3		"	10.0		103	70-130				
1,2,4-Trichlorobenzene	6.99		"	10.0		69.9	70-130	Low Bias			
1,2,4-Trimethylbenzene	10.7		"	10.0		107	70-130				
1,2-Dibromoethane	10.3		"	10.0		103	70-130				
1,2-Dichlorobenzene	10.3		"	10.0		103	70-130				
1,2-Dichloroethane	10.3		"	10.0		103	70-130				
1,2-Dichloropropane	10.6		"	10.0		106	70-130				
1,2-Dichlorotetrafluoroethane	9.86		"	10.0		98.6	70-130				
1,3,5-Trimethylbenzene	10.0		"	10.0		100	70-130				
1,3-Butadiene	9.34		"	10.0		93.4	70-130				
1,3-Dichlorobenzene	10.5		"	10.0		105	70-130				
1,3-Dichloropropane	10.7		"	10.0		107	70-130				
1,4-Dichlorobenzene	10.6		"	10.0		106	70-130				
1,4-Dioxane	10.1		"	10.0		101	70-130				
2-Butanone	9.88		"	10.0		98.8	70-130				
2-Hexanone	11.5		"	10.0		115	70-130				
3-Chloropropene	9.62		"	10.0		96.2	70-130				
4-Methyl-2-pentanone	11.2		"	10.0		112	70-130				
Acetone	9.57		"	10.0		95.7	70-130				
Acrylonitrile	9.85		"	10.0		98.5	70-130				
Benzene	9.45		"	10.0		94.5	70-130				
Benzyl chloride	8.30		"	10.0		83.0	70-130				
Bromodichloromethane	11.0		"	10.0		110	70-130				
Bromoform	10.2		"	10.0		102	70-130				
Bromomethane	9.29		"	10.0		92.9	70-130				
Carbon disulfide	10.2		"	10.0		102	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00112 - EPA TO15 PREP											
LCS (BE00112-BS1) LCS							Prepared & Analyzed: 05/01/2020				
Carbon tetrachloride	10.0		ppbv	10.0		100	70-130				
Chlorobenzene	9.68		"	10.0		96.8	70-130				
Chloroethane	10.5		"	10.0		105	70-130				
Chloroform	9.98		"	10.0		99.8	70-130				
Chloromethane	7.96		"	10.0		79.6	70-130				
cis-1,2-Dichloroethylene	9.99		"	10.0		99.9	70-130				
cis-1,3-Dichloropropylene	11.2		"	10.0		112	70-130				
Cyclohexane	9.85		"	10.0		98.5	70-130				
Dibromochloromethane	10.4		"	10.0		104	70-130				
Dichlorodifluoromethane	11.6		"	10.0		116	70-130				
Ethyl acetate	12.2		"	10.0		122	70-130				
Ethyl Benzene	10.0		"	10.0		100	70-130				
Hexachlorobutadiene	10.2		"	10.0		102	70-130				
Isopropanol	9.54		"	10.0		95.4	70-130				
Methyl Methacrylate	10.8		"	10.0		108	70-130				
Methyl tert-butyl ether (MTBE)	9.73		"	10.0		97.3	70-130				
Methylene chloride	9.09		"	10.0		90.9	70-130				
n-Heptane	9.68		"	10.0		96.8	70-130				
n-Hexane	9.83		"	10.0		98.3	70-130				
o-Xylene	10.2		"	10.0		102	70-130				
p- & m- Xylenes	20.6		"	20.0		103	70-130				
p-Ethyltoluene	10.6		"	10.0		106	70-130				
Propylene	9.19		"	10.0		91.9	70-130				
Styrene	10.4		"	10.0		104	70-130				
Tetrachloroethylene	6.99		"	10.0		69.9	70-130	Low Bias			
Tetrahydrofuran	9.95		"	10.0		99.5	70-130				
Toluene	9.96		"	10.0		99.6	70-130				
trans-1,2-Dichloroethylene	10.4		"	10.0		104	70-130				
trans-1,3-Dichloropropylene	11.1		"	10.0		111	70-130				
Trichloroethylene	10.7		"	10.0		107	70-130				
Trichlorofluoromethane (Freon 11)	9.53		"	10.0		95.3	70-130				
Vinyl acetate	8.14		"	10.0		81.4	70-130				
Vinyl bromide	8.86		"	10.0		88.6	70-130				
Vinyl Chloride	7.76		"	10.0		77.6	70-130				
Surrogate: SURR: p-Bromofluorobenzene	*10.5*		*"*	*10.0*		*105*	*70-130*				



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00112 - EPA TO15 PREP											
Duplicate (BE00112-DUP1) Duplicate	*Source sample: 20E0004-07 (IA09_043020)								Prepared: 05/01/2020 Analyzed: 05/02/2020		
1,1,1,2-Tetrachloroethane	ND	0.65	ug/m³		ND					25	
1,1,1-Trichloroethane	ND	0.52	"		ND					25	
1,1,2,2-Tetrachloroethane	ND	0.65	"		ND					25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.73	"		ND					25	
1,1,2-Trichloroethane	ND	0.52	"		ND					25	
1,1-Dichloroethane	ND	0.39	"		ND					25	
1,1-Dichloroethylene	ND	0.094	"		ND					25	
1,2,4-Trichlorobenzene	ND	0.71	"		ND					25	
1,2,4-Trimethylbenzene	0.33	0.47	"		0.33				0.00	25	
1,2-Dibromoethane	ND	0.73	"		ND					25	
1,2-Dichlorobenzene	ND	0.57	"		ND					25	
1,2-Dichloroethane	ND	0.39	"		ND					25	
1,2-Dichloropropane	ND	0.44	"		ND					25	
1,2-Dichlorotetrafluoroethane	ND	0.67	"		ND					25	
1,3,5-Trimethylbenzene	ND	0.47	"		ND					25	
1,3-Butadiene	ND	0.63	"		ND					25	
1,3-Dichlorobenzene	ND	0.57	"		ND					25	
1,3-Dichloropropane	ND	0.44	"		ND					25	
1,4-Dichlorobenzene	ND	0.57	"		ND					25	
1,4-Dioxane	ND	0.69	"		ND					25	
2-Butanone	0.76	0.28	"		0.79				3.64	25	
2-Hexanone	ND	0.78	"		ND					25	
3-Chloropropene	ND	1.5	"		ND					25	
4-Methyl-2-pentanone	ND	0.39	"		ND					25	
Acetone	4.2	0.45	"		4.2				0.00	25	
Acrylonitrile	ND	0.21	"		ND					25	
Benzene	0.37	0.30	"		0.30				18.2	25	
Benzyl chloride	ND	0.49	"		ND					25	
Bromodichloromethane	ND	0.64	"		ND					25	
Bromoform	ND	0.99	"		ND					25	
Bromomethane	ND	0.37	"		ND					25	
Carbon disulfide	ND	0.30	"		ND					25	
Carbon tetrachloride	0.48	0.15	"		0.48				0.00	25	
Chlorobenzene	ND	0.44	"		ND					25	
Chloroethane	ND	0.25	"		ND					25	
Chloroform	ND	0.47	"		ND					25	
Chloromethane	1.1	0.20	"		1.1				7.14	25	
cis-1,2-Dichloroethylene	ND	0.094	"		ND					25	
cis-1,3-Dichloropropylene	ND	0.43	"		ND					25	
Cyclohexane	ND	0.33	"		ND					25	
Dibromochloromethane	ND	0.81	"		ND					25	
Dichlorodifluoromethane	1.8	0.47	"		1.9				2.53	25	
Ethyl acetate	ND	0.69	"		ND					25	
Ethyl Benzene	0.50	0.41	"		0.50				0.00	25	
Hexachlorobutadiene	ND	1.0	"		ND					25	
Isopropanol	1.6	0.47	"		1.6				0.00	25	
Methyl Methacrylate	0.23	0.39	"		0.23				0.00	25	
Methyl tert-butyl ether (MTBE)	ND	0.34	"		ND					25	
Methylene chloride	ND	0.66	"		ND					25	
n-Heptane	0.20	0.39	"		0.20				0.00	25	
n-Hexane	ND	0.34	"		ND					25	

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00112 - EPA TO15 PREP											
Duplicate (BE00112-DUP1) Duplicate	*Source sample: 20E0004-07 (IA09_043020)								Prepared: 05/01/2020 Analyzed: 05/02/2020		
o-Xylene	0.54	0.41	ug/m³		0.54				0.00	25	
p- & m- Xylenes	1.6	0.83	"		1.6				2.60	25	
p-Ethyltoluene	ND	0.47	"		ND					25	
Propylene	ND	0.16	"		ND					25	
Styrene	ND	0.41	"		ND					25	
Tetrachloroethylene	0.39	0.65	"		0.39				0.00	25	
Tetrahydrofuran	ND	0.56	"		ND					25	
Toluene	2.7	0.36	"		2.7				1.32	25	
trans-1,2-Dichloroethylene	ND	0.38	"		ND					25	
trans-1,3-Dichloropropylene	ND	0.43	"		ND					25	
Trichloroethylene	ND	0.13	"		ND					25	
Trichlorofluoromethane (Freon 11)	1.3	0.54	"		1.3				0.00	25	
Vinyl acetate	ND	0.34	"		ND					25	
Vinyl bromide	ND	0.42	"		ND					25	
Vinyl Chloride	ND	0.12	"		ND					25	
Surrogate: SURR: p-Bromofluorobenzene	*10.6*		*ppbv*	*10.0*		*106*	*70-130*				
Batch BE00113 - EPA TO15 PREP											
Blank (BE00113-BLK1) Blank									Prepared & Analyzed: 05/05/2020		
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00113 - EPA TO15 PREP											
Blank (BE00113-BLK1) Blank									Prepared & Analyzed: 05/05/2020		
Carbon disulfide	ND	0.31	ug/m³								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								
n-Heptane	ND	0.41	"								
n-Hexane	ND	0.35	"								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.68	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.13	"								
Surrogate: SURR: p-Bromofluorobenzene	*9.74*		*ppbv*	*10.0*		*97.4*	*70-130*				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Batch BE00113 - EPA TO15 PREP

LCS (BE00113-BS1) LCS — Prepared & Analyzed: 05/05/2020

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1,1,2-Tetrachloroethane	9.75		ppbv	10.0		97.5	70-130				
1,1,1-Trichloroethane	9.97		"	10.0		99.7	70-130				
1,1,2,2-Tetrachloroethane	10.9		"	10.0		109	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.62		"	10.0		96.2	70-130				
1,1,2-Trichloroethane	10.5		"	10.0		105	70-130				
1,1-Dichloroethane	10.2		"	10.0		102	70-130				
1,1-Dichloroethylene	10.6		"	10.0		106	70-130				
1,2,4-Trichlorobenzene	7.31		"	10.0		73.1	70-130				
1,2,4-Trimethylbenzene	10.7		"	10.0		107	70-130				
1,2-Dibromoethane	10.5		"	10.0		105	70-130				
1,2-Dichlorobenzene	10.3		"	10.0		103	70-130				
1,2-Dichloroethane	10.6		"	10.0		106	70-130				
1,2-Dichloropropane	10.8		"	10.0		108	70-130				
1,2-Dichlorotetrafluoroethane	9.83		"	10.0		98.3	70-130				
1,3,5-Trimethylbenzene	10.3		"	10.0		103	70-130				
1,3-Butadiene	10.0		"	10.0		100	70-130				
1,3-Dichlorobenzene	10.5		"	10.0		105	70-130				
1,3-Dichloropropane	10.9		"	10.0		109	70-130				
1,4-Dichlorobenzene	10.6		"	10.0		106	70-130				
1,4-Dioxane	10.2		"	10.0		102	70-130				
2-Butanone	10.1		"	10.0		101	70-130				
2-Hexanone	11.7		"	10.0		117	70-130				
3-Chloropropene	9.89		"	10.0		98.9	70-130				
4-Methyl-2-pentanone	11.4		"	10.0		114	70-130				
Acetone	9.80		"	10.0		98.0	70-130				
Acrylonitrile	9.97		"	10.0		99.7	70-130				
Benzene	9.68		"	10.0		96.8	70-130				
Benzyl chloride	8.20		"	10.0		82.0	70-130				
Bromodichloromethane	11.2		"	10.0		112	70-130				
Bromoform	10.2		"	10.0		102	70-130				
Bromomethane	9.50		"	10.0		95.0	70-130				
Carbon disulfide	10.4		"	10.0		104	70-130				
Carbon tetrachloride	10.2		"	10.0		102	70-130				
Chlorobenzene	9.75		"	10.0		97.5	70-130				
Chloroethane	10.8		"	10.0		108	70-130				
Chloroform	10.2		"	10.0		102	70-130				
Chloromethane	8.45		"	10.0		84.5	70-130				
cis-1,2-Dichloroethylene	10.4		"	10.0		104	70-130				
cis-1,3-Dichloropropylene	11.4		"	10.0		114	70-130				
Cyclohexane	10.0		"	10.0		100	70-130				
Dibromochloromethane	10.6		"	10.0		106	70-130				
Dichlorodifluoromethane	11.2		"	10.0		112	70-130				
Ethyl acetate	12.6		"	10.0		126	70-130				
Ethyl Benzene	9.98		"	10.0		99.8	70-130				
Hexachlorobutadiene	10.1		"	10.0		101	70-130				
Isopropanol	9.72		"	10.0		97.2	70-130				
Methyl Methacrylate	11.1		"	10.0		111	70-130				
Methyl tert-butyl ether (MTBE)	9.88		"	10.0		98.8	70-130				
Methylene chloride	9.24		"	10.0		92.4	70-130				
n-Heptane	10.0		"	10.0		100	70-130				
n-Hexane	10.0		"	10.0		100	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE00113 - EPA TO15 PREP											
LCS (BE00113-BS1) LCS								Prepared & Analyzed: 05/05/2020			
o-Xylene	10.1		ppbv	10.0		101	70-130				
p- & m- Xylenes	20.6		"	20.0		103	70-130				
p-Ethyltoluene	10.5		"	10.0		105	70-130				
Propylene	9.40		"	10.0		94.0	70-130				
Styrene	10.5		"	10.0		105	70-130				
Tetrachloroethylene	7.04		"	10.0		70.4	70-130				
Tetrahydrofuran	10.3		"	10.0		103	70-130				
Toluene	9.98		"	10.0		99.8	70-130				
trans-1,2-Dichloroethylene	10.6		"	10.0		106	70-130				
trans-1,3-Dichloropropylene	11.2		"	10.0		112	70-130				
Trichloroethylene	10.9		"	10.0		109	70-130				
Trichlorofluoromethane (Freon 11)	9.62		"	10.0		96.2	70-130				
Vinyl acetate	8.21		"	10.0		82.1	70-130				
Vinyl bromide	9.09		"	10.0		90.9	70-130				
Vinyl Chloride	8.28		"	10.0		82.8	70-130				
Surrogate: SURR: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*70-130*				

Sample and Data Qualifiers Relating to This Work Order

TO-LCS-L	The result reported for this compound may be biased low due to its behavior in the analysis batch LCS where it recovered less 70% of the expected value.
TO-CCV	The value reported is ESTIMATED for this compound due to its behavior during continuing calibration verification (>30% Difference from initial calibration).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 20E0004

YOUR Information	Report To:	Invoice To:
Company: Langan	Company:	Company:
Address: 360 west 31st Street, New York NY 10001	Address:	Address:
Phone: 212 479 5400	Phone.:	Phone.:
Contact: Kime Semon	Contact: Dino Palazzolo	Contact:
E-mail: Ksemon@langan.com	E-mail: DPalazzolo@langan.com	E-mail:

YOUR Project Number: 170610601

YOUR Project Name: 475 Bay Street

YOUR PO#:

Turn-Around Time: RUSH - Next Day; RUSH - Two Day; RUSH - Three Day; RUSH - Four Day; Standard (5-7 Day) (X)

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)
Deirdre Casey
Deirdre Casey

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil ¦ Other

Samples From: New York (X); New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections): Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB11_18-20	S	4/30 1450	VOC, SVOC, PCB, Pest, Herb, metals (+hex/tri/chromium & cyanide	
SOFB02_043020	S & QA/QC	4/30 1200	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	
MW06-043020	GW	4/30 1414	VOC SVOC PCB Pest Herb metals (+hex/tri/chromium cyanide	
MW08_043020	GW	4/30 1055	(filtered & unfiltered)	
MW05_043020	GW	4/30		
MWDUP01_043020	GW	4/30 —		
MWFB01_043020	QA/QC	4/30 1400		
TBLK01_043020	QA/QC	4/30 —		
SV04_043020	Air	4/30 1433	TO-15 (can ID - Y67; start time 1233 (-30 in Hg); end time 1433 (-5 in Hg)	
SV07_043020	Air	4/30 1430	TO-15 (can ID - 2396; start time 1230 (-31.5 in Hg); end time 1430 (-7.75 in Hg)	

Comments:

Preservation: (check all that apply) HCl (X) MeOH (X) HNO3 (X) H2SO4 ( ) NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction: Field Filtered (X) Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Deirdre Casey Langan	4/30 1740	C Shafer	4/30/20	C Shafer	4/30/20
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
				PGrace 4-30-20 1938	
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Temp. Received at Lab
					1.2

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave, Queens, NY 11418
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www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No.: 20E0004

YOUR Information	Report To:	Invoice To:
Company: Langan	Company:	Company: same
Address: 360 West 31st Street New York NY 10001	Address:	Address: same
Phone.: 212 479 5400	Phone.:	Phone.: same
Contact: Kim Semon	Contact: Dina Palazzolo	Contact: same
E-mail: KSemon@langan.com	E-mail: DPalazzolo@langan.com	E-mail: same

YOUR Project Number: 170161601

YOUR Project Name: 475 Bay Street

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day) ✓

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) Luke McCartney

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil ; Other

Samples From: New York ✓; New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections): Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
AA01_043020	air	4/30 1431	TO15	(Can ID 15528; Start 1235 (-28 inHg); Stop 1431 (-4.25 inHg)
SS08_043020	air	4/30 1713	TO15	(Can ID 16956; Start 0913 (-29.75"); Stop 1713 (-7.0 inHg)
SS09_043020	air	4/30 1712	TO15	(Can ID 18305; Start 0911 (-30); Stop 1712 (-6 inHg)
IA08_043020	air	4/30 1723	TO15	(Can ID 18302; Start 0923 (-31.5"); Stop 1723 (-7 inHg)
IA09_043020	air	4/30 1723	TO15	20316; Start 0923 (-29.9"); Stop 1723 (-8 inHg

Comments:

Preservation: (check all that apply) HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: _____

Special Instruction: Field Filtered ___ Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Luke McCartney Langan	4/30 1740	LANGAN 4/30 1740			4/30/20
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
	4/30/20				
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
					4-30-20 1738 @ 1.2 Degrees C

GEO DESIGN

UNDERGROUND INTELLIGENCE

PRELIMINARY GEOTECHNICAL EVALUATION REPORT

PROPOSED MULTISTORY BUILDINGS
475 BAY STREET AND 31 WAVE STREET
STATEN ISLAND, NEW YORK

Prepared for:
BFC 475 Residential LLC
150 Myrtle Avenue, Suite 2
Brooklyn, New York

Prepared By:
GEODesign, Inc. P.C.
241West 30th Street, 5th Floor
New York, NY 10001

GEODesign File No. 3765-011
April 2020

GEO DESIGN

GEODesign, Inc. P.C.
241 West 30th Street, 5th Floor
New York, NY 10001
(212) 221-6651

April 20, 2020
File No. 3765-011

William D'Avella
BFC 475 Residential LLC
150 Myrtle Avenue, Suite 2
Brooklyn, New York 11201

Re: Preliminary Geotechnical Evaluation Report
475 Bay Street and 31 Wave Street, Staten Island, New York

Dear Mr. D'Avella:

GEODesign, Inc. P.C. (GEODesign) is pleased to submit this preliminary geotechnical evaluation report for the referenced project sites.

We appreciate the opportunity to work with you. Please contact us if you have any questions or need additional information.

Sincerely,

GEODesign, Inc. P.C.

Ryan T. Pascullo, PE
Project Engineer

Thomas G. Thomann, PhD, PE
Senior Principal

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Appendix A – Test Boring Logs

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1.0 – INTRODUCTION AND OBJECTIVES

1.1 GENERAL

This report provides geotechnical recommendations for the design and construction of proposed buildings at 475 Bay Street and 31 Wave Street in Staten Island, New York (see Figure 1). Authorization to proceed was obtained in the form of an agreement between BFC 475 Residential LLC and GEODesign, Inc. P.C. (GEODesign) dated January 28, 2020.

The geotechnical evaluations and recommendations presented herein are in general accordance with the 2014 NYC Building Code (Code).

1.2 SITE CONDITIONS AND PROJECT UNDERSTANDING

The project site is located in Lots 9, 157, 162, and 164 of Block 488 in Staten Island, New York. At the time of this report the site consisted of paved parking lots. The ground surface varies from approximately el. +7.5 to +8.5 feet[1].

The site is bounded by a two-story and a one-story building to the north, a two-story building in the southwest corner, Wave Street to the south, Bay Street to the west and the Staten Island Railway (SIR) to the east, which is owned and operated by NYC Transit (TA). Information regarding the adjacent building foundation types and depths has not been provided to us.

It is proposed to construct a new 6 to 12-story building in Lot 9, identified as 475 Bay Street, and a 3-story building that will occupy all of Lot 162 and parts of Lots 157 and 164, identified as 31 Wave Street. 475 Bay Street will have a partial cellar level having a floor-to-floor height of 10 feet. 31 Wave Street will not have a cellar.

1.3 OBJECTIVES AND SCOPE OF SERVICES

The objectives of this investigation were to evaluate the subsurface conditions at the site and provide geotechnical recommendations for the design and construction of the proposed buildings. The following scope of services was performed to achieve these objectives:

1. Obtained permission from the TA to perform test borings;
2. Retained a subcontractor to perform the test borings;
3. Provided full time inspection of the test boring operations;
4. Performed engineering evaluations and prepared this preliminary geotechnical evaluation report that includes the following:
    a. An Introductory Section presenting project background information and the scope of services;
    b. A Subsurface Conditions section that includes the following:
        - A description of the test boring and laboratory testing procedures and results;
        - A plan showing the as-drilled test boring locations;
        - A description of the subsurface conditions;

[1] All elevations in this report are referenced to NAVD88.

c. An Analyses and Recommendations section regarding the Foundation Design that includes the following:
   - Seismic site classification and liquefaction potential;
   - Foundation type, estimated capacity, and bearing elevation;
   - Ground Floor/Cellar slab support;
   - Permanent below grade wall lateral pressures;
   - Permanent groundwater control measures;

d. A Construction Recommendations section that includes the following:
   - Excavation considerations;
   - Adjacent building support considerations;
   - Temporary groundwater control;
   - Subgrade preparation;
   - Pile installation and testing recommendations;
   - Backfill and compaction control recommendations;
   - Pre-construction condition surveys;
   - Construction inspection and monitoring considerations;

e. A Summary and Conclusions section;

f. Appendices that include test boring logs and laboratory test results.

1.4 REPORT ORGANIZATION

This report is divided into five sections. Section 1 presents an introduction and the objectives of the study. Section 2 includes a description of the subsurface investigation methods and results. Section 3 provides engineering evaluation results and the foundation design and construction recommendations. A summary and conclusions are included in Section 4. Limitations of the subsurface explorations, analyses, and recommendations are included in Section 5. Tables and Figures are provided at the end of the text.

2.0 – SUBSURFACE CONDITIONS

2.1 GENERAL

The subsurface investigation included laboratory testing and a field investigation, which included drilling test borings and installing two groundwater observation wells. Details of the subsurface investigation and the conditions encountered are described in the following sections.

2.2 SUBSURFACE INVESTIGATION

2.2.1 Test Boring Program

Ten test borings, designated B-1 through B-10, were performed between March 27 and April 6, 2020, at the locations shown in Figure 2. Special inspection of the test borings was performed on a continuous basis by GEODesign personnel under the direction of Mr. Thomas Thomann, PhD, PE of GEODesign.

The test borings were performed by Craig Geotechnical Drilling Co., Inc. of Mays Landing, New Jersey using a truck mounted CME-75 drilling rig. The boreholes were advanced using mud rotary drilling techniques with a 2-7/8 or 3-7/8-inch diameter tri-cone roller bit and a 4-inch diameter flush joint casing.

Soil samples were obtained using techniques and equipment in general accordance with the American Society for Testing and Materials (ASTM) Standard Specification D1586-Standard Penetration Test (SPT). The SPT consists of driving a 2-inch O.D. split spoon sampler for a distance of 24 inches, with repeated blows of a 140 lb. hammer free falling a distance of 30 inches. The standard penetration, or N-value, is determined as the number of blows required to advance the sampler 12 inches after the initial 6 inches of penetration. The recovered split-spoon samples were placed in jars, labeled with the project name and number, boring number, sample, depth, SPT blow counts and the amount of recovery.

Rock coring was performed using a five-foot long NX (2-1/8 in. O.D.) core barrel to verify the presence of rock and to assess its relative quality, as indicated by Core Recovery[2] and Rock Quality Designation (RQD)[3]. The top of rock was estimated based on the drilling operations (e.g., excessive rig chatter, difficult penetration) and split spoon sampler refusal (i.e., blow counts greater than 100 for a 6-inch interval).

Upon completion of Borings B-2 and B-8, groundwater observation wells were installed. The wells were constructed of nominal 2-inch diameter Schedule 25 PVC pipe with a 10-foot screen between depths of approximately 10 and 20 feet, and 10 feet of riser pipe. The annulus between the pipe and the wall of the borehole was backfilled with filter sand. A flush-mount cap was installed at the top of the completed borehole.

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[2] The Core Recovery is defined as the ratio (expressed as a percent) of the total length of recovered core to the length cored.

[3] The Rock Quality Designation (RQD) is defined as the ratio (expressed as a percentage) of the total length of recovered core samples having a length of at least twice the core diameter (e.g., about 4 in for NX-core) to the total length of core.

The test boring logs are included in Appendix A.

2.2.2 Laboratory Testing

Geotechnical laboratory testing is being conducted on representative soil samples to verify the field classifications and assist in engineering evaluations. The laboratory tests, which include sieve analyses, percent fines, Atterberg limits, and moisture content, are in progress and will be included in the final geotechnical evaluation report.

2.3 GENERALIZED SUBSURFACE CONDITIONS

The following generalized strata descriptions are based on interpretations of the subsurface investigation results:

Stratum 1 – Uncontrolled Fill [7][4]: This stratum consists primarily of dark brown silt, sand, and gravel with varying amounts of miscellaneous fill such as asphalt, brick, and wood. The N-values ranged from 0 to 44 blows per foot (bpf), with an average N-value of approximately 15 bpf. This stratum is approximately 5 to 12 feet thick.

Stratum 2 – Silt [5b, 6]: This stratum consists of gray silt with varying amounts of sand and gravel. The N-values ranged from 0 to 14 bpf, with an average N-value of approximately 5, indicative of a loose material. This stratum is approximately 5 to 22.5 feet thick.

Stratum 3 – Sand [3a, 3b, 2a, 2b, 5a, 5b, 6]: This stratum consists of gray, brown, and reddish-brown coarse to fine sand with varying amounts of silt and gravel. The N-values ranged from 0 to 100 bpf, with an average N-value of approximately 33 bpf, indicative of a dense material. This stratum is approximately 40 to 50 feet thick. Pockets of silt and gravel were encountered within this stratum in several of the borings at various depths.

Stratum 4 – Clay and Silt [5a, 4b]: This stratum was encountered in Borings B-7 and B-10 and consists of white clay and silt with varying amounts of sand. The N-values ranged from 23 to 72 bpf, with an average N-value of approximately 38 bpf, indicative of a dense or stiff material. This stratum is approximately 15 feet thick.

Stratum 5 – Soft Rock [1d]: This stratum was encountered in Borings B-1 and B-3 and consists of gray and white soft schist bedrock. The N-values varied from approximately 50 bpf to split-spoon refusal (i.e., less than 6 inches of penetration after 50 hammer blows), indicative of a very dense material. This stratum is approximately 5 to 15 feet thick.

Stratum 6 –Medium Hard Rock [1b]: This stratum was encountered in Borings B-1 and B-3 and consists of dark gray fine-grained schist that was slightly to moderately fractured with fresh to slightly weathered joints. The Core Recovery ranged from 57% to 92% and the RQD ranged from 57% to 85%. The depth to the top of this stratum was approximately 84 feet (el. -76 feet) in Boring B-1 and 75 feet (el. -67 feet) in Boring B-3.

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[4] The numbers in parentheses refer to the 2014 NYC Building Code classification system.

2.4 GROUNDWATER LEVELS

The groundwater depth between April 3 and April 6, 2020, as measured in the observation wells, varied between approximately 6 and 4.5 feet (approximately el. +2 to +3.5 feet).

Groundwater measurements were not taken over an extended period of time; therefore, the measurements do not adequately reflect seasonal or other time dependent variations that may occur. See limitations in Section 5.

3.0 – ANALYSES AND RECOMMENDATIONS

3.1 GENERAL

This section presents engineering analyses, evaluations, and recommendations related to the design and construction of the foundations and below grade structures. The evaluations and recommendations are based on the available subsurface information, our experience on other projects, and the design requirements provided herein for the proposed structure.

3.2 FOUNDATION DESIGN

3.2.1 Seismic Recommendations

The Code requires that a liquefaction potential assessment be performed for soils located below the groundwater and to a maximum depth of 50 feet. The liquefaction potential at the site was initially evaluated using the Code based liquefaction assessment diagram, which, as shown in Figure 3, indicates that a liquefaction evaluation is required for depths below the groundwater.

A site-specific liquefaction analysis was performed using the methods developed by I.M. Idriss and R. W. Boulanger (2004). These analyses require a peak ground surface acceleration and an earthquake magnitude to estimate the seismic shear stresses. Based on Site Class D, the Code specified peak ground surface acceleration for liquefaction evaluation is 0.24g. An earthquake magnitude of 5.5 is used in the analyses and is primarily based on historical earthquake information in the northeast. The Code specifies that, for Risk Category II/III buildings, the minimum acceptable factor of safety against liquefaction is 1.0. Many of the factors of safety between depths of 10 to 15 feet, as shown in Figure 4, are less than 1.0.

Since liquefaction is a possible concern, the seismic site classification is Site Class “F” and a site-specific ground motion study will be performed. The seismic site classification, without considering liquefaction effects, is Site Class “D”. We believe that the site-specific ground motion study will result in an adequate factor of safety against liquefaction, and that the seismic site classification will be Site Class “D”. The Seismic Design Category is “B” if the seismic site classification is “D” and the Risk Category is I&II, or III. The appropriate Risk Category should be determined by the Architect or Structural Engineer.

3.2.2 Foundation Recommendations

3.2.2.1 Columns and Walls

Considering that most of the proposed buildings will not have a cellar level, it is likely that uncontrolled fill and loose silt will be encountered at the bearing elevation. The Code maximum allowable bearing capacity for shallow foundations bearing on these soils is 2 tons per square foot. We have not been provided with the building loads. However, considering the proposed building heights and the anticipated building loads, we believe that the bearing pressure for shallow foundations will be greater than 2 tsf. Therefore, we recommend that the buildings be supported on pile foundations. The following sections provide recommendations for driven and drilled piles.

Driven Piles

The vibrations from driving piles could result in unacceptable settlements and/or damage to adjacent structures. The distance at which vibrations will become a concern is dependent on many factors and should be determined in the field based on the results of vibration and settlement measurements made during the driving of the initial test piles.

For the purpose of design, we recommend that driven piles be allowed when they are located 20 feet or more from adjacent buildings.

The allowable pile driving distance from the SIR will be determined by the TA based on their review of the project documents. For the purpose of initial design, we recommend that driven piles be allowed when they are located 50 feet or more from the SIR tracks.

For the purpose of preparing foundation designs, the following driven pile types, sizes, and estimated capacities should be considered:

Pile Type and Size	Estimated Allowable Compression Capacity (tons)	Estimated Allowable Tension Capacity (tons)	Estimated Pile Length (feet)	Minimum Pile Spacing (feet)
Tapertube Pile 8”x14”x15’, t=0.375”	150	50	60	2.5
Open-ended steel pipe pile, 16” OD, t=0.5”	100	40	65	3.0

Driven Pile Notes:

1. The piles should have a minimum yield strength of 50 ksi.
2. The recommended allowable tension capacities are based on minimum pile lengths of 55 feet (Tapertube) and 60 feet (pipe pile) and a factor of safety of 3.
3. The pile compression capacities are limited by the pile lengths, which were selected in an effort to avoid pile splices. The compression capacities could be increased if the piles are driven deeper and it is determined that pile splices are cost effective.
4. If the lateral load is greater than 1 ton per pile, lateral pile analyses and lateral load testing, in accordance with the Code, will be required.

Drilled Piles

Where driven piles are too close to adjacent structures, as indicated in the previous section, we recommend that drilled piles be installed.

Drilled piles can obtain their capacity in suitable soil (referred to as micropiles) or bedrock (referred to as caissons). Considering that bedrock is likely to be relatively deep in the eastern portion of the site, caissons are not practical and we recommend that micropiles be installed. Micropile installation generally consists of installing a steel casing to the

required depth, installing the reinforcement and grout, and extracting a portion of the casing to create a bond zone.

For the purpose of preparing foundation designs and evaluating costs, the following micropile options can be considered:

Pile Casing OD (in)	Pile Casing Thickness (in)	Allowable Compression Pile Capacity (tons)	Allowable Tension Pile Capacity (tons)	Reinforcing Steel (75 ksi)	Minimum grout strength (psi)	Estimated Minimum Pile Length (ft)
13-3/8	0.48	100	30	1 - #18	4,000	55

Drilled Pile Notes:

1. The estimated micropile length is from pile cutoff to tip and includes 15 feet of permanent casing. The casing should have a minimum yield strength of 50 ksi and a thickness of 0.48 inches.
2. The estimated bond zone length is 40 feet and should be formed below Stratum 2. Pile load tests should be performed on initial test piles and the bond zone length adjusted, as necessary, for production piles.
3. The reinforcing steel should extend the full length of the micropile.
4. The piles should have a minimum center-to-center spacing of 3 feet.
5. If the lateral load is greater than 1 ton per pile, lateral pile analyses and lateral load testing, in accordance with the Code, will be required.

3.2.2.2 Ground Floor and Cellar Slabs

The lowest-level floor slabs can be designed as a slab-on-grade. The subgrade will require proper preparation, as described in Section 3.3.4, to reduce the potential for slab cracking. If the bottom of the slab is below the design groundwater elevation, the slab should be designed to resist hydrostatic pressures and be waterproofed. The structural engineer should determine if a structural slab, for lateral stability, will be more cost effective than grade beams between pile caps.

3.2.3 Lateral Earth Pressures

The design lateral pressures for permanent below grade walls consist of static and seismic pressures that are influenced by the thickness and type of overburden material, and wall bracing conditions. We recommend that the below grade walls above and below the design groundwater level be designed for a static equivalent hydrostatic lateral soil pressure of 45 pcf and 85 pcf, respectively. (i.e., soil wall pressure is a triangular pressure).

In addition, a seismic lateral soil force of $6H^2$ (lb/ft. of wall), where H is the total vertical height of the wall, in feet, should be included. This force should be applied at a distance of H/3 from the top of the wall (i.e., seismic wall pressure is an inverted triangle).

The recommended lateral pressures do not include any surcharge loads adjacent to the walls or at the ground surface. We recommend that a uniform (i.e., rectangular) lateral pressure distribution of 0.40 times the design surcharge be added to the lateral soil pressure distribution. The structural engineer should determine the magnitude of the design surcharge loads (i.e., live loads).

3.2.4 Permanent Groundwater Control

Based on the measured groundwater level and taking into consideration that the groundwater level may fluctuate due to seasonal conditions, we recommend a non-flood design groundwater elevation of +6.5 feet. The flood design groundwater elevation should be taken as the flood elevation.

If the bottom of the foundation elements (i.e., slab, elevator pits, ejector pits, etc.) will be above the design groundwater elevation, the below grade walls and the foundation should be dampproofed, at a minimum. Damproofing should be performed at the bottom of the foundation by installing a membrane, such as Grace Construction Products Florprufe, or approved equal. Damproofing of the below grade walls should be performed with a liquid applied membrane (LAM), such as Grace Construction Products Procor, or approved equal, for 2-sided forms, or a membrane, such as Grace Construction Products Preprufe, or approved equal, for blind-sided forms.

If the bottom of the foundation elements will be below the design groundwater elevation, the below grade walls and foundation should be designed to resist groundwater pressures and be waterproofed. Waterproofing materials should be installed on the outside of the perimeter walls (Grace Construction Products Bituthene 3000 for two-sided form applications and Preprufe 160R for blind side applications, or approved equivalent) and directly beneath the foundation (Grace Construction Products Preprufe 300R, or equivalent). The waterproofing on the perimeter walls is typically installed to the ground surface. Waterstops should be installed at applicable locations.

The installation of all waterproofing elements should be inspected on a full-time basis to confirm that the waterproofing is being applied as per the manufacturer's specifications and details.

3.3 CONSTRUCTION RECOMMENDATIONS

3.3.1 Excavation Considerations

Local temporary soil excavations above the natural groundwater level can have cut slopes as steep as 1H:1V (horizontal to vertical). Temporary soil excavations below the natural groundwater level should be no steeper than 2H:1V. The slopes of any excavations adjacent to any existing structures should be no steeper than 2H:1V, unless approved by the SOE engineer.

All vertical soil faces will require temporary support until the new foundation walls and foundations are constructed and the area is properly backfilled. Considering the subsurface conditions and the proposed excavation depths, a feasible support system could consist of

sloped excavations and soldier piles and timber lagging or steel sheet piles with lateral restraint (e.g., tiebacks, rakers, bracing, etc.), if necessary. Design of the excavation support and lateral bracing must also consider the protection of surrounding subsurface utilities and other adjacent improvements.

Measurements of vibration levels should be made at selected adjacent structures (preferably on the ground surface next to the building) during the driving of soldier piles. The maximum allowable vibration levels should be established as part of the pre-construction condition survey of the adjacent structures. At locations where driven piles are acceptable, the continuous vibrations from a vibratory hammer could increase the potential for settlement of adjacent structures; therefore, the SOE designer should consider specifying the use of an impact hammer for installing soldier piles or sheet piles.

The design and construction of any slopes and/or temporary excavation support systems should be the responsibility of a licensed New York Professional Engineer. All excavations and temporary support systems should conform to pertinent OSHA and local safety regulations.

3.3.2 Adjacent Building Support

Adjacent building support (e.g., underpinning or secant pile walls) will be required at locations where the new foundations will be placed within the influence zone of the adjacent building foundations.

Underpinning typically consists of installing a series of interconnected concrete panels which create a continuous concrete wall that transfers the foundation loads from the present bearing level to a level that is below the new building foundation level. Underpinning requires permission of the adjacent building owner and is typically difficult to perform below the groundwater. The underpinning designer should review all subsurface investigation results and adjacent building information and select and design appropriate underpinning methods.

A secant pile wall system is installed prior to excavation, close to the adjacent buildings, and includes overlapping drilled and cased piles that go below the excavation depth. This wall system does not require adjacent building owner permission and can be performed below the groundwater.

The analysis and design of any underpinning or other building support systems should be performed by a licensed New York Professional Engineer. Underpinning operations should be inspected full time, during construction, by a qualified engineer.

3.3.3 Temporary Groundwater Control

The groundwater level should be maintained sufficiently below the bottom of the excavation so that the foundation bearing surface can be adequately prepared. The need for temporary groundwater control will depend on the groundwater level at the time of construction and the proposed excavation depths.

Considering the relatively shallow groundwater depth, it is likely that excavations for the cellar, foundations, elevator pits, and ejector pits will be close to or below the groundwater.

Therefore, it should be anticipated that temporary dewatering will be required. If the groundwater needs to be discharged into the sewer, a NYCDEP permit will be required.

3.3.4 Subgrade Preparation

Subgrade surfaces for the slab-on-grade, if used, should be level and cleaned of loose soil, mud, and other material (such as concrete, brick, wood, debris, etc.) that can have a negative impact on the performance of the slab. Excavations to reach final subgrades should use a smooth-edged bucket and/or hand tools.

If necessary, the soil subgrade should be proof-rolled with a minimum of 6 passes of a smooth drum roller with a minimum 1,500 lb. static weight and minimum centrifugal force of 4,000 lbs. or similar approved equipment. The proof-rolling should not be performed when the subgrade is wet, muddy, or frozen.

Any unstable areas which cannot be stabilized by additional compaction should be excavated to competent material and the area backfilled with compacted structural fill or ¾" stone. If construction is performed in the winter, the subgrade should be protected from frost to limit possible subgrade deterioration resulting from freezing and thawing cycles. Concrete should not be poured if the subgrade is wet, muddy, or frozen.

A minimum 6-inch thick layer of compacted coarse aggregate, commonly known as ¾" gravel or crushed stone, should be placed below the slab-on-grade.

3.3.5 Driven Pile Installation and Testing

Prior to driving any piles, the contractor should submit Wave Equation Analysis (WEAP) results of the proposed pile and hammer configuration to confirm that the proposed pile driving system will obtain the necessary pile capacity without overstressing the pile.

We recommend that a minimum of six test piles be installed and that all test piles be monitored using a Pile Driving Analyzer (PDA). A PDA provides real-time information regarding pile capacity and stresses during pile driving and will assist in deciding which piles to select for static load testing and will assist in developing the pile driving criteria. The PDA testing should be included in the contractors' scope and be performed by a company with sufficient PDA testing experience.

In accordance with the Code, static compression load tests are required for any driven pile with a design compression load greater than 40 tons. The code requires one load test for a pile supported area less than 5,000 sq. ft. Two load tests are required for a pile supported area between 5,000 and 30,000 sq. ft., with one additional load test required for each additional 20,000 sq. ft. of footprint area. The load tests should be performed in accordance with ASTM D1143 and the Code requirements. The number and type of load tests to be performed should be determined after the structural foundation design is completed.

The maximum test load should be twice the design load and it should be maintained for a minimum of 24 hours. If the pile compression capacity is greater than 75 tons and the pile is a friction pile, the Code requires that a cyclic load test be performed.

If the lateral pile loads are greater than 1 ton per pile, lateral pile load tests will be required. As per the Code, two lateral load tests are required and the standard ASTM loading conditions (i.e., "quick" test) should be applied.

Vibration and settlement monitoring should be performed at any vibration sensitive structures during the driving of the test piles and production piles.

3.3.6 Micropile Installation and Testing

Micropiles should be installed by a contractor with experience on similar projects. The contractor should submit a construction procedure to the Engineer for review and approval prior to beginning the work. It is the responsibility of the contractor to use an installation method that will not cause damage to adjacent structures.

The use of down-the-hole hammers, or similar equipment, to advance the casing, may cause damage to adjacent structures if the compressed air cannot be contained within the casing. Control of the air will depend on the drillers' equipment, procedures, and experience. The use of down-the-hole hammers, or similar equipment, should not be allowed without discussing the proposed procedures at a field meeting with the owner, engineer, construction manager, and contractor.

As per the Code requirements, all aspects of the micropile installation should be inspected on a full-time basis.

The code requires that static compression pile load tests be performed on micropiles with compression capacities greater than 20 tons. Considering that the micropile capacities will be greater than 20 tons, pile load tests should be performed. The Code requires that one load test be performed for a pile area up to 5,000 square feet and two load tests be performed for a pile area up to 30,000 square feet, with one additional load test for each additional 20,000 sq. ft. of pile supported area.

The maximum test load should be twice the design load and it should be maintained for a minimum of 24 hours. If the micropile design compression capacity is greater than 75 tons, the Code requires that a cyclic load test be performed.

If the lateral pile load is greater than 1 ton per pile, two lateral load tests are required and the standard ASTM loading conditions (i.e., quick test) should be applied.

3.3.7 Backfill and Compaction Requirements

Select backfill or structural backfill should consist of granular soils free of cinder, brick, asphalt, ash, and other unsuitable materials. Such material should not contain any boulders or cobbles larger than about 4 inches across, and should have a fines content (material passing the No. 200 sieve) between 5 and 15 percent. The subgrade underneath the backfill should be properly prepared prior to placement of backfill.

All backfill should be placed in lifts not exceeding 8-in. in loose thickness. Backfill placed beneath slabs-on-grade, behind below grade walls, and underneath sidewalks should be compacted to a minimum of 90% of the maximum dry density.

3.3.8 Pre-construction Condition Survey and Monitoring

A pre-construction condition survey of any adjacent structures that may be affected by the construction should be performed for the protection of the new building owner in the event of a future damage claim. It is also required by the NYC Department of Buildings. The report should include detailed documentation and photographs of the existing condition of the structures.

Based on the survey results, a monitoring program should be developed for the purpose of checking the performance of the adjacent structures and construction procedures. The monitoring program should include, at a minimum, recommendations for the location of survey points to monitor vertical and horizontal movements, locations for crack gauges, and locations for monitoring vibrations during key construction activities. The monitoring program should also include threshold levels for allowable movements and vibrations, and the procedures to be implemented if the threshold levels are exceeded during construction.

3.3.9 Construction Monitoring

We recommend that a geotechnical engineer familiar with the subsurface conditions and foundation design criteria review and approve the foundation contractor's procedures and provide inspection services during excavation and foundation construction. Geotechnical related inspection services should include the following:

- Review and approval of contractor submittals related to foundation construction;
- Special inspection of the support of excavation;
- Special inspection of foundation subgrades, if applicable;
- Special inspection of the pile installation and testing;
- Special inspection of structural fill placement and compaction.
- Monitoring of adjacent structures and interpretation of the monitoring data, if necessary;

4.0 – SUMMARY AND CONCLUSIONS

This report provides geotechnical recommendations for the design and construction of new multistory buildings located at 475 Bay Street and 31 Wave Street in Staten Island, New York.

Based on ten test borings, the subsurface conditions above the bedrock generally consist of approximately 5 to 12 feet of uncontrolled fill (Stratum 1), 5 to 22.5 feet of silt (Stratum 2), 40 to 50 feet of sand (Stratum 3), 15 feet of clay, (Stratum 4), and 5 to 15 feet of soft rock (Stratum 5). The top of medium hard mica schist (Stratum 6) was encountered at depths of approximately 84 feet (el. -76 feet) and 75 feet (el. -67 feet) in two borings. Groundwater was measured at depths of approximately 6 feet (el. +2 feet) to 4.5 feet (el. +3.5).

Liquefaction is a possible concern; therefore, the seismic site classification is Site Class "F" and a site-specific ground motion study is required and will be performed. The seismic site classification without considering liquefaction effects is Site Class "D". The Seismic Design Category is "B" if the seismic site classification is Site Class "D" and the Risk Category is I&II, or III.

Considering the proposed building heights and the anticipated building loads, we believe that the bearing pressure for shallow foundations will be greater than the allowable bearing capacity. Therefore, we recommend that the buildings be supported on driven and drilled pile foundations. For the purpose of preparing design drawings, if the piles are located more than 20 feet away from an adjacent non-pile supported building and more than 50 feet from the subway, we recommend that the drawings include driven piles. Drilled micropiles should be used at other locations. The report includes recommendations for driven 150 ton Tapertube piles and 100 ton open-ended steel pipe piles and 100 ton 13-3/8 inch diameter drilled micropiles.

We recommend that a minimum of six driven test piles be installed and that all test piles be monitored with a PDA. Static compression pile load tests will be needed for the driven and drilled piles.

The recommended non-flood design groundwater elevation is +6.5 feet. If the bottom of the foundation elements will be above the design groundwater elevation, the below grade walls and the foundation should, at a minimum, be damproofed. If the bottom of the foundation elements will be below the design groundwater elevation, the below grade walls and foundation should be designed to resist groundwater pressures and be waterproofed.

The report includes additional information regarding the subsurface conditions and foundation design recommendations and additional recommendations regarding excavation considerations, adjacent building support, temporary groundwater control, subgrade preparation, pile installation and testing, backfill and compaction requirements, pre-construction condition surveys and monitoring, and construction inspection and monitoring.

5.0 – LIMITATIONS

Explorations

1. The analysis and recommendations submitted in this report are based in part upon the data obtained from widely spaced subsurface explorations. The nature and extent of variations between these explorations may not become evident until construction. If variations then appear evident, it will be necessary to reevaluate the recommendations of this report.
2. The generalized soil profile described in the text is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized and have been developed by interpretations of widely spaced explorations and samples; actual soil transitions are probably more erratic. For specific information, refer to the boring logs.
3. Water level readings have been made in the drill holes at times and under conditions stated on the logs. These data have been reviewed and interpretations made in the text of this report. However, it must be noted that fluctuations in the level of the groundwater may occur due to variations in rainfall, temperature and other factors occurring since the time measurements were made.

Review

4. In the event that any changes in the nature, design, or location of the proposed structures are planned, the conclusions and recommendations contained in this report shall not be considered valid unless the changes are reviewed and conclusions of this report modified or verified in writing by GEODesign. It is recommended that this firm be provided the opportunity for a general review of final design and specifications in order that earthwork and foundation recommendations may be properly interpreted and implemented in the design and specifications.

Construction

5. It is recommended that this firm be retained to provide soil engineering services during construction of the excavation and foundation phases of the work. This is to observe compliance with the design concepts, specifications, and recommendations and to allow design changes in the event that subsurface conditions differ from those anticipated prior to start of construction.

Uses of Report

6. This report has been prepared for the exclusive use of BFC 475 Residential LLC for specific application to the proposed structures located at 475 Bay Street and 31 Wave Street in Staten Island, New York in accordance with generally accepted soil and foundation engineering practices. No other warranty, express or implied, is made.

FIGURES



GEO DESIGN
241 WEST 30TH STREET, 5TH FLOOR
NEW YORK, NY 10001
212.221.6651
geocompanies.com

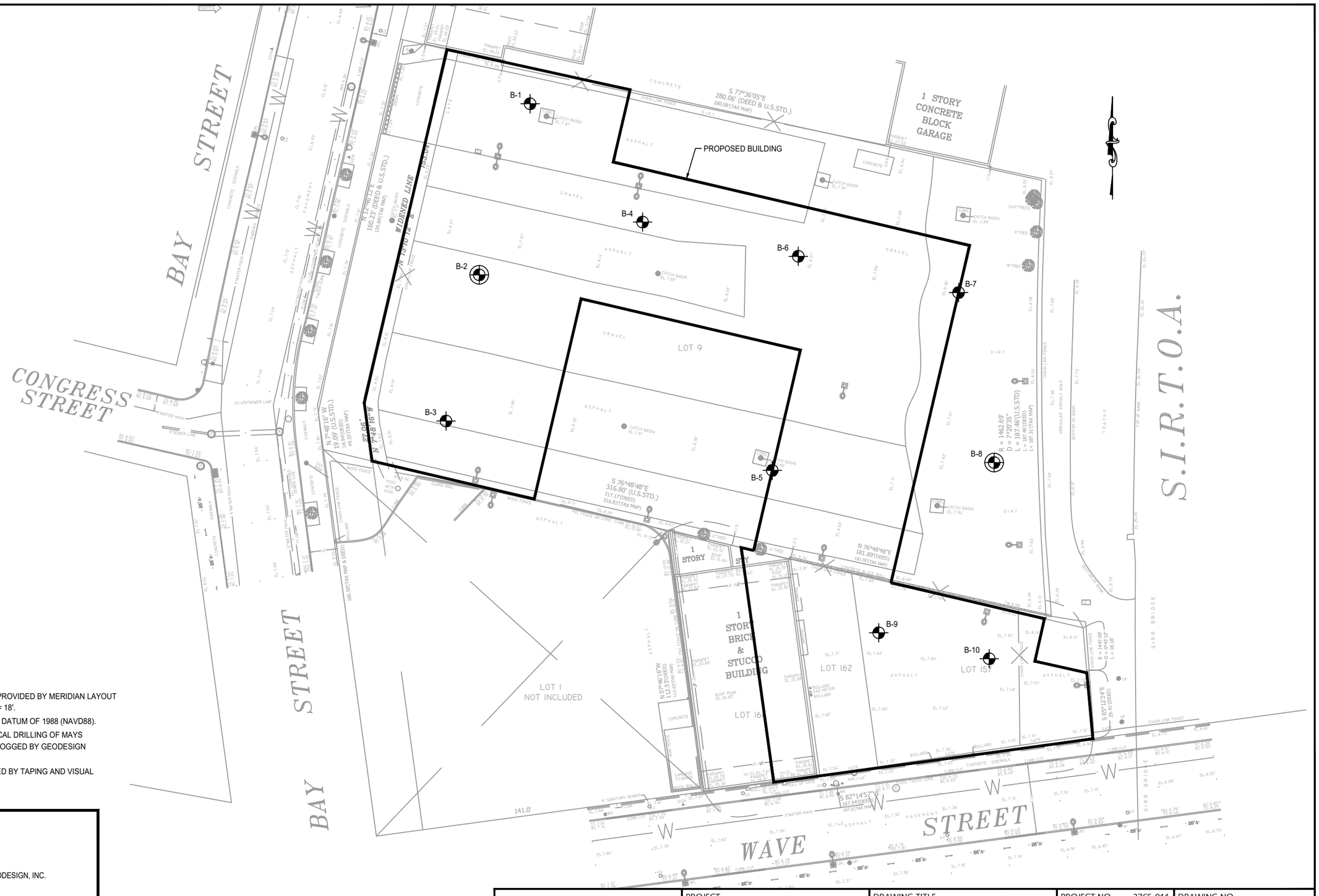
PROJECT
475 BAY STREET
STATEN ISLAND, NEW YORK

DRAWING TITLE
SITE LOCATION PLAN

PROJECT NO.	3765-011
SCALE	1" = 2000'
DATE	APRIL 2020
DESIGNED BY	RTP
DRAWN BY	RTP
APPROVED BY	TGT

DRAWING NO.
FIGURE 1
01 OF 01

M:\CL\3765 BFC Partners\011-475BayStr\Drawings\SiteLocationPlan\SiteLocationPlan.dwg 4/7/2020 7:26 PM GD-STD_3.0.ctb



NOTES:

1. BASE MAP DEVELOPED FROM AN ELECTRONIC FILE PROVIDED BY MERIDIAN LAYOUT INC. DATED FEBRUARY 12, 2020. ORIGINAL SCALE 1" = 18'.
2. ELEVATIONS REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. BORINGS WERE PERFORMED BY CRAIG GEOTECHNICAL DRILLING OF MAYS LANDING, NEW JERSEY AND WERE OBSERVED AND LOGGED BY GEODESIGN PERSONNEL.
4. THE LOCATIONS OF THE BORINGS WERE DETERMINED BY TAPING AND VISUAL ESTIMATES FROM EXISTING SITE FEATURES.

LEGEND

B-1	TEST BORING BY GEODESIGN, INC. NO. AND LOCATION
B-2	TEST BORING WITH GROUNDWATER OBSERVATION WEEL BY GEODESIGN, INC. NO. AND LOCATION

0 20 40 80
SCALE (FEET)

GEO DESIGN
241 WEST 30TH STREET, 5TH FLOOR
NEW YORK, NY 10001
212.221.6651
geocompanies.com

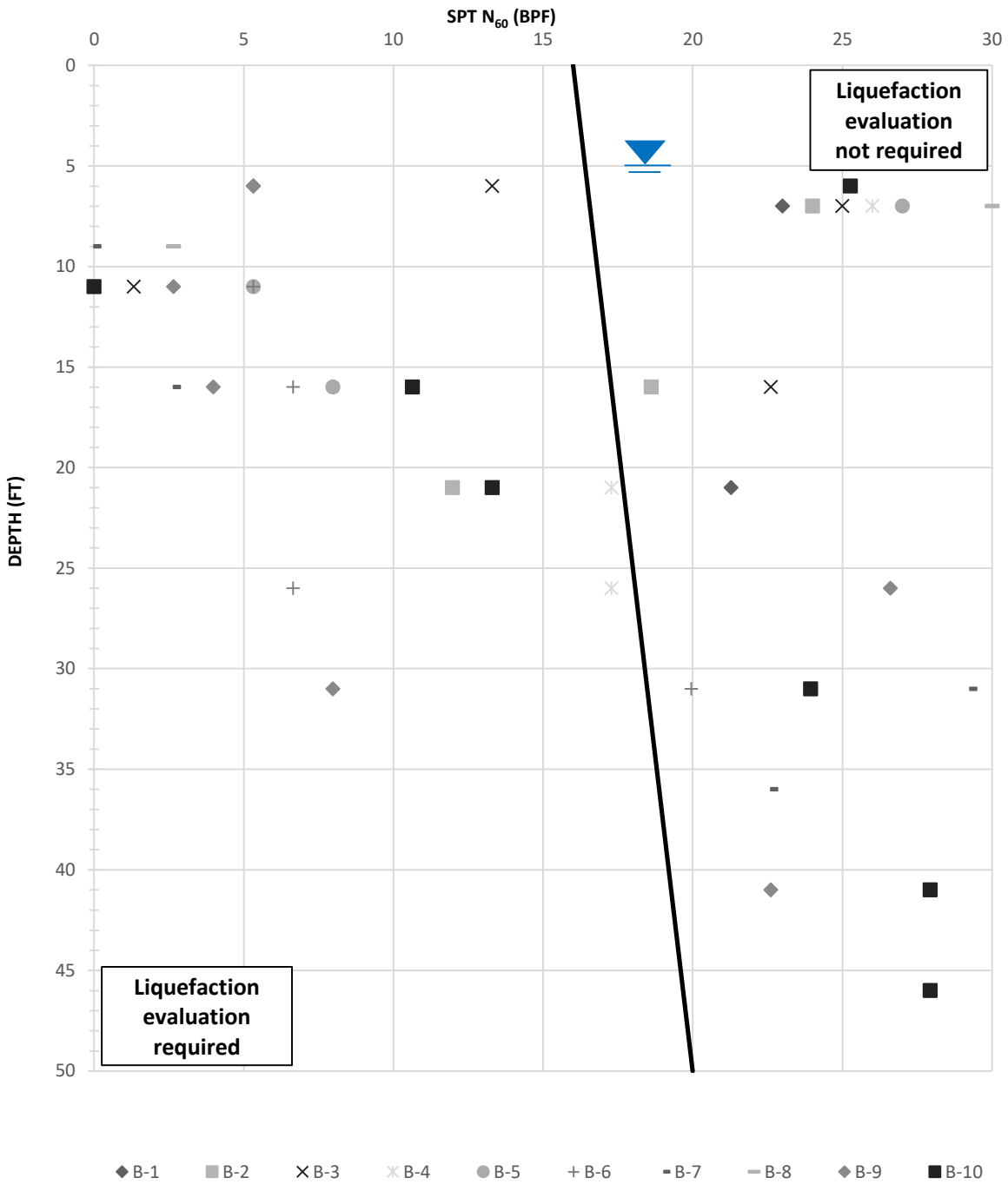
PROJECT
475 BAY STREET
STATEN ISLAND, NEW YORK

DRAWING TITLE
AS-DRILLED BORING LOCATION PLAN

PROJECT NO.	3765-011
SCALE	1" = 40'
DATE	APRIL 2020
DESIGNED BY	RTP
DRAWN BY	RTP
APPROVED BY	TGT

DRAWING NO.
FIGURE 2
01 OF 01

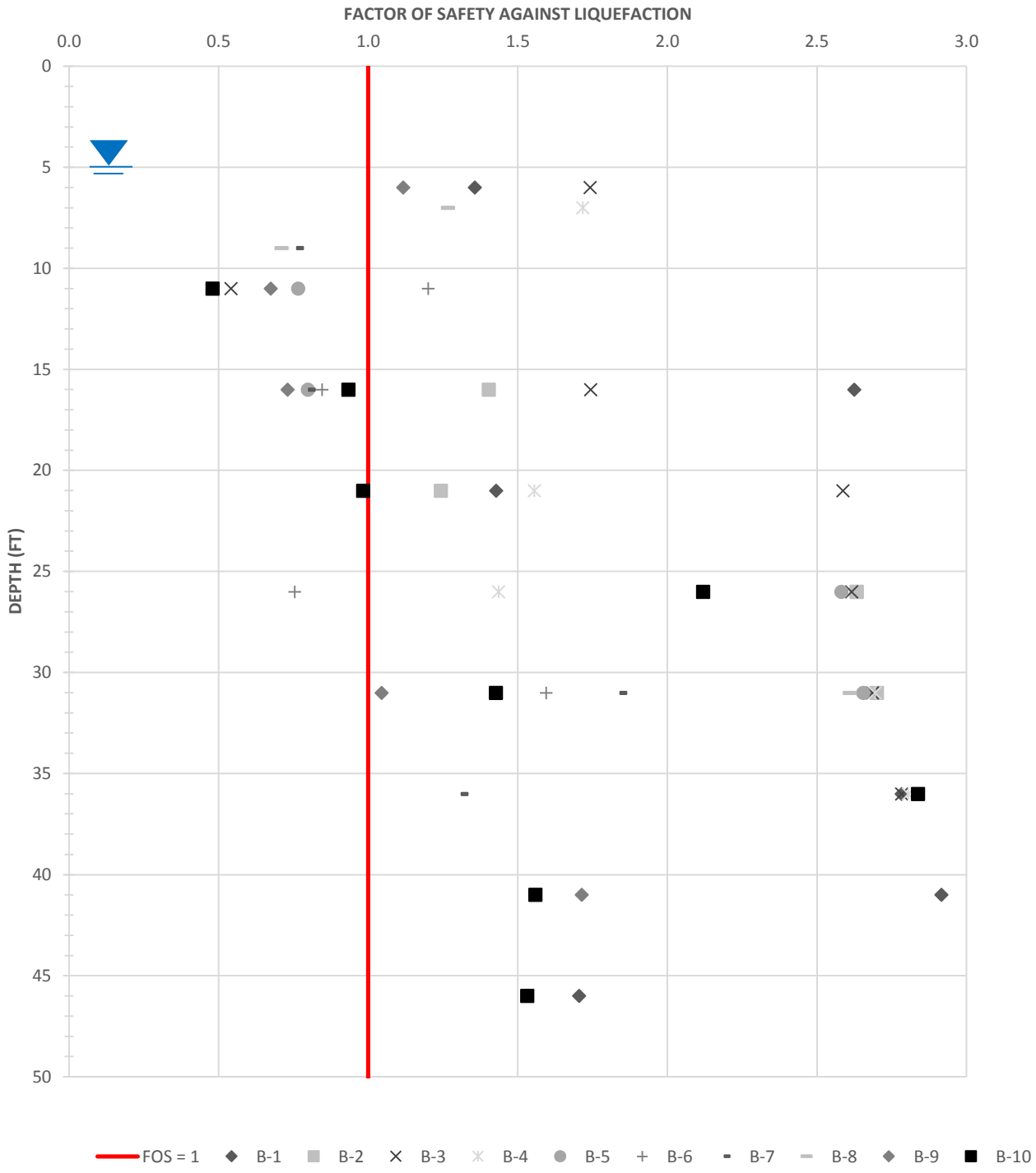
M:\CL\3765 BFC Partners\011-475BaySI\Drawings\Geotech\BLP\AsDrilled.dwg 4/8/2020 8:56 PM GD-STD_3.0.ctb



Notes:

1. Structural Occupancy Category II/III is assumed.
2. N-Values greater than 30 bpf not shown.

CODE BASED SOIL LIQUEFACTION POTENTIAL 475 BAY STREET STATEN ISLAND, NEW YORK					
GEODESIGN INCORPORATED P.C. 241 W 30th Street, New York, NY					
DR. BY:	RTP	**SCALE:**	NTS	**PROJ NO.:**	3765-011
CHK'D. BY:	TGT	**DATE:**	APRIL 2020	**FIG. NO:**	3



Notes:

1. Factors of Safety greater than 3.0 are not shown.

SITE SPECIFIC LIQUEFACTION EVALUATION
475 BAY STREET
STATEN ISLAND, NEW YORK

GEODESIGN INCORPORATED P.C.
241 West 30th Street, New York, NY

DR. BY:	RTP	**SCALE:**	AS SHOWN	**PROJ NO.:**	3765-011
CHK'D. BY:	TGT	**DATE:**	APRIL 2020	**FIG. NO:**	4

APPENDIX A
TEST BORING LOGS

GEO DESIGN
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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-1

Page No.: 1 of 4

File No.: 3765-011

Boring Company:	Craig Geotechnical Drilling	Date Started:	4/3/2020
Foreman:	Mark Aquino	Date Completed:	4/6/2020
GeoDesign Rep.:	Jonathan Perez	Surface El. (ft):	8 (NAVD88)
Rig Type:	CME 75 Truck	Total Depth (ft):	89
Coordinates:		Rock Depth (ft):	84

	Barrel	Casing	Sampler
Type:	NX	FJ	SS
I.D.:	2.2 in.	4.0 in.	1.38 in.
Hammer Wt.:		140 lbs	140 lbs
Hammer Fall:		30 in.	30 in.
Hammer Type:		Safety - Cathead	

GROUNDWATER OBSERVATIONS

DATE	DEPTH (ft)	ELEV. (ft)	NOTES
▼			
▼			
▼			

Depth (ft)	Type	Number	Recovery (inches)	Pen. Resist (blows/6 in.)	Coring Time (min./ft)	Recovery (%)	RQD (%)	Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
0	SS	1	16	14 8 9 7								FILL		(FILL) brown SILT, little brick, trace gravel, trace sand [7]	Auto Hammer
5	SS	2	8	2 1 3 2								8.5 -0.5		(FILL) gray SILT, little sand, trace brick [7]	
												SILT			
10	SS	3	4	1 7 4 4								13.5 -5.5		(ML) light brown SILT, some gravel [5b]	
												SAND			
15	SS	4	10	12 11 15 20										(SP) gray fine SAND [3b]	
20	SS	5	2	12 9 7 7								23.5 -15.5		(SP) reddish brown c-f SAND, some gravel [3b]	
25															

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NOTES:
1) Stratification lines represent approximate boundary between material types, transitions may be gradual.
2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. AC = After coring; NR = Not Recorded.
3) Abbreviations: A = Auger; C = Core; MC=Macrocore; D = Driven; G = Grab; PS = Piston Sample; SS = Split Spoon; SSL = 3.5 Inch ID Split Spoon; ST = Shelby Tube; V = Vane; WOR/H = Weight of Rod/Hammer
4) Proportions Used: Trace = 1-10%; Little = 10-20%; Some = 20-35%; And = 35-50%
5) (SP) = Unified Soil Classification System symbol; [3a] = NYC Building Code Classification

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-1

File No.: 3765-011

Depth (ft)	SAMPLE INFORMATION: GENERAL Type	Number	Recovery (inches)	SOIL Pen. Resist (blows/6 in.)	ROCK Coring Time (min./ft)	Recovery (%)	RQD (%)	LAB Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	STRATA Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
25	SS	6	11	20 18 26 25										(ML) reddish brown SILT and m-f SAND, some gravel [5a]	
												28.5 -20.5			
30	SS	7	12	36 15 15 15										(SP) brown c-f SAND, trace gravel [3b]	SS bouncing with Safety Hammer Switched to Auto Hammer
35	SS	8	14	15 29 32 30										(SP) brown m-f SAND and GRAVEL [3a]	
												38.5 -30.5 GRAVEL			
40	SS	9	12	15 38 19 22										(GP) gray GRAVEL and brown m-f SAND [2a]	SS bouncing with Safety Hammer Switched to Auto Hammer
												43.5 -35.5 SAND			
45	SS	10	12	16 12 11 12										(SP) brown c-f SAND, some gravel [3b]	SS bouncing with Safety Hammer Switched to Auto Hammer
50	SS	11	11	12 13 16 18										(SP) brown c-f SAND, little gravel [3b]	Auto Hammer
55															

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-1
Page No.: 3 of 4
File No.: 3765-011

Depth (ft)	SAMPLE INFORMATION: GENERAL Type	Number	Recovery (inches)	SOIL Pen. Resist (blows/6 in.)	ROCK Coring Time (min./ft)	Recovery (%)	RQD (%)	LAB Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	STRATA Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
55	SS	12	20	13 21 22 20								SAND *(Continued)*		(SP) brown m-f SAND [3a]	Auto Hammer
60	SS	13	16	12 25 25 20										(SP) brown m-f SAND, little gravel [3a]	Auto Hammer
												63.5 -55.5 SOFT ROCK			
65	SS	14	19	9 18 58 45/3										(SOFT ROCK) dark gray DECOMPOSED ROCK [1d]	Auto Hammer
70	SS	15	16	28 30 28 28										(SOFT ROCK) dark gray DECOMPOSED ROCK [1d]	Auto Hammer
75	SS	16	16	16 18 25 24										(SP) dark gray - white m-f SAND [3a]	Auto Hammer Appears like decomposed rock
80	SS	17	24	28 44 56 76										(SOFT ROCK) dark gray DECOMPOSED ROCK [1d]	Auto Hammer
												84.0 -76.0 BEDROCK			
85					3.5									(BEDROCK) dark gray, fine grained, fresh - slightly weathered, moderately fractured, intermediate	

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-1

Page No.: 4 of 4

File No.: 3765-011

Depth (ft)	SAMPLE INFORMATION: GENERAL Type	Number	Recovery (inches)	SOIL Pen. Resist (blows/6 in.)	ROCK Coring Time (min./ft)	Recovery (%)	RQD (%)	LAB Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	STRATA Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
85	C	1	34		2.5 4 3.5 4	57	57					BEDROCK *(Continued)* 89.0 -81.0		hardness SCHIST [1b]	
														Bottom of Exploration at 89.0 ft	
90															
95															
100															
105															
110															
115															

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-2

Page No.: 1 of 2

File No.: 3765-011

Boring Company:	Craig Geotechnical Drilling	Date Started:	4/1/2020
Foreman:	Mark Aquino	Date Completed:	4/1/2020
GeoDesign Rep.:	Jonathan Perez	Surface El. (ft):	8 (NAVD88)
Rig Type:	CME 75 Truck	Total Depth (ft):	37
Coordinates:		Rock Depth (ft):	

	Barrel	Casing	Sampler
Type:		FJ	SS
I.D.:		4.0 in.	1.38 in.
Hammer Wt.:		140 lbs	140 lbs
Hammer Fall:		30 in.	30 in.
Hammer Type:		Safety - Cathead	

GROUNDWATER OBSERVATIONS

DATE	DEPTH (ft)	ELEV. (ft)	NOTES
▼ 4/3/20	5.7	2.3	
▼ 4/6/20	5.6	2.4	
▼			

Depth (ft)	Type	Number	Recovery (inches)	Pen. Resist (blows/6 in.)	Coring Time (min./ft)	Recovery (%)	RQD (%)	Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	WELL LOG	REMARKS/ OTHER TESTS
0	SS	1	20	15 11 7 8								FILL		(FILL) Dark brown SILT, some Sand, trace Gravel [7]		Auto-Hammer
	SS	2	14	6 4 2 2										(FILL) Dark grey SILT, trace Sand, wood fragments [7]		Auto-Hammer
5	SS	3	18	2 2 1 3										(FILL) Light brown SILT, some Sand, trace Gravel [7]		
	SS	4	18	30 20 12 20								8.0 0.0		(FILL) Light brown SILT and m-f SAND, trace Gravel [7]		
	SS	5	5	2 1 1 1								SILT		(ML) Gray SILT, some Sand, trace Gravel [6]		
10	SS	6	14	1 2 12 8										(ML) Gray SILT, some Sand, trace Gravel [5b]		
												13.5 -5.5				
												SAND				
15	SS	7	3	5 7 7 6										Difficult to classify due to low sample recovery. Sample included sand and gravel		
20	SS	8	12	5 4 5 6										(SM) Light brown m-f SAND and Silt, trace Gravel [6]		
												23.5 -15.5				
												SAND AND GRAVEL				
25																

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NOTES:
1) Stratification lines represent approximate boundary between material types, transitions may be gradual.
2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. AC = After coring; NR = Not Recorded.
3) Abbreviations: A = Auger; C = Core; MC=Macrocore; D = Driven; G = Grab; PS = Piston Sample; SS = Split Spoon; SSL = 3.5 Inch ID Split Spoon; ST = Shelby Tube; V = Vane; WOR/H = Weight of Rod/Hammer
4) Proportions Used: Trace = 1-10%; Little = 10-20%; Some = 20-35%; And = 35-50%
5) (SP) = Unified Soil Classification System symbol; [3a] = NYC Building Code Classification

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-2

File No.: 3765-011

Depth (ft)	SAMPLE INFORMATION: GENERAL Type	Number	Recovery (inches)	SOIL Pen. Resist (blows/6 in.)	ROCK Coring Time (min./ft)	Recovery (%)	RQD (%)	LAB Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	STRATA Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	WELL LOG	REMARKS/ OTHER TESTS
25	SS	9	3	25 15 16 10								SAND AND GRAVEL *(Continued)*		(SP) Brown fine SAND, some Gravel [3a]		
30	SS	10	8	26 36 40 32										(SP) Reddish brown c-f SAND and GRAVEL [3a]		
35	SS	11	12	11 24 27 29								37.0 -29.0		(SP) Reddish brown c-f SAND and GRAVEL [3a]		
														Bottom of Exploration at 37.0 ft		
40																
45																
50																
55																

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-3

File No.: 3765-011

Boring Company:	Craig Geotechnical Drilling	Date Started:	3/30/2020
Foreman:	Mark Aquino	Date Completed:	3/31/2020
GeoDesign Rep.:	Jonathan Perez	Surface El. (ft):	8 (NAVD88)
Rig Type:	CME 75 Truck	Total Depth (ft):	85
Coordinates:		Rock Depth (ft):	75

	Barrel	Casing	Sampler
Type:	NX	FJ	SS
I.D.:	2.2 in.	4.0 in.	1.38 in.
Hammer Wt.:		140 lbs	140 lbs
Hammer Fall:		30 in.	30 in.
Hammer Type:		Safety - Cathead	

GROUNDWATER OBSERVATIONS

DATE	DEPTH (ft)	ELEV. (ft)	NOTES
▼			
▼			
▼			

Depth (ft)	Type	Number	Recovery (inches)	Pen. Resist (blows/6 in.)	Coring Time (min./ft)	Recovery (%)	RQD (%)	Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
				SAMPLE INFORMATION: GENERAL / SOIL / ROCK / LAB								STRATA			
0	SS	1	14	6 13 7 7								FILL		(FILL) Dark brown SILT and fine SAND, some Gravel [7]	Auto-Hammer
5	SS	2	3	2 4 6 6										(FILL) Gray GRAVEL, little Sand, trace Brick [7]	Auto-Hammer
10	SS	3	0	1 woh 1 woh										No recovery	
												13.5 / -5.5			
												SAND			
15	SS	4	6	4 6 11 4										(SM) Dark gray m-f SAND, some Gravel, little Sand [3b]	
20	SS	5	0	14 17 20 13										No recovery	No recovery with 3 spoon. Gravel outwash
25															

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NOTES:
1) Stratification lines represent approximate boundary between material types, transitions may be gradual.
2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. AC = After coring; NR = Not Recorded.
3) Abbreviations: A = Auger; C = Core; MC=Macrocore; D = Driven; G = Grab; PS = Piston Sample; SS = Split Spoon; SSL = 3.5 Inch ID Split Spoon; ST = Shelby Tube; V = Vane; WOR/H = Weight of Rod/Hammer
4) Proportions Used: Trace = 1-10%; Little = 10-20%; Some = 20-35%; And = 35-50%
5) (SP) = Unified Soil Classification System symbol; [3a] = NYC Building Code Classification

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-3

File No.: 3765-011

Depth (ft)	SAMPLE INFORMATION: GENERAL Type	Number	Recovery (inches)	SOIL Pen. Resist (blows/6 in.)	ROCK Coring Time (min./ft)	Recovery (%)	RQD (%)	LAB Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	STRATA Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
25	SS	6	14	16 21 23 18								SAND *(Continued)*		(SM) Brown c-f SAND and GRAVEL, little Silt [3a]	
30	SS	7	20	37 46 52 40/3										(SM) Reddish brown fine SAND, little Silt, trace Gravel [3a]	
35	SS	8	16	16 18 24 31										(SM) Reddish brown fine SAND, little Silt, trace Gravel [3a]	Auto-Hammer
40	SS	9	12	11 14 17 21										(SM) Reddish brown m-f SAND, little Silt, trace Gravel [3a]	Auto-Hammer
45	SS	10	11	14 15 16 17										(SP) Reddish brown c-m SAND, trace Gravel [3a]	Auto-Hammer
50	SS	11	10	10 12 18 21										(SP) Reddish brown c-m SAND, little Gravel [3a]	Auto-Hammer
55															

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-3
Page No.: 3 of 3
File No.: 3765-011

Depth (ft)	SAMPLE INFORMATION: Type	Number	Recovery (inches)	Pen. Resist (blows/6 in.)	Coring Time (min./ft)	Recovery (%)	RQD (%)	Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	STRATA: Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
55	SS	12	10	11 43 41 44								SAND *(Continued)* SAND SAND *(Continued)* 58.5 -50.5		(SM) Reddish brown gray c-f SAND, little Gravel, little Silt [3a]	Auto-Hammer
												SILT			
60	SS	13	13	12 11 14 16										(ML) Green light brown gray SILT, some Sand, trace Gravel [5b]	Auto-Hammer. Appears like decomposed rock.
												63.5 -55.5 SAND			
65	SS	14	16	19 16 17 20										(SM) Dark gray white fine SAND, little Silt [3a]	Auto-Hammer. Appears like decomposed rock.
												68.5 -60.5 SOFT ROCK			
70	SS	15	1	30/2										(Soft Rock) Dark gray decomposed rock [1d]	Auto-Hammer. Split spoon bouncing.
75	C	1	55		6 4 4.5 3 3	92	85					75.0 -67.0 BEDROCK		(BEDROCK) Dark grey, fine grained, fresh, slightly weathered, slightly fractured, intermediate hardness, MICA SCHIST [1b]	
80	C	2	55		6 3 3.5 3 3	92	83					80.0 -72.0		(BEDROCK) Dark grey, fine grained, fresh, slightly weathered, slightly fractured, intermediate hardness, MICA SCHIST [1b]	
85												85.0 -77.0		Bottom of Exploration at 85.0 ft	

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-4

Page No.: 1 of 2

File No.: 3765-011

Boring Company:	Craig Geotechnical Drilling	Date Started:	4/1/2020
Foreman:	Mark Aquino	Date Completed:	4/1/2020
GeoDesign Rep.:	Jonathan Perez	Surface El. (ft):	8 (NAVD88)
Rig Type:	CME 75 Truck	Total Depth (ft):	37
Coordinates:		Rock Depth (ft):	

	Barrel	Casing	Sampler
Type:		FJ	SS
I.D.:		4.0 in.	1.38 in.
Hammer Wt.:		140 lbs	140 lbs
Hammer Fall:		30 in.	30 in.
Hammer Type:		Automatic - Hydraulic	

GROUNDWATER OBSERVATIONS

DATE	DEPTH (ft)	ELEV. (ft)	NOTES
▼			
▼			
▼			

Depth (ft)	Type	Number	Recovery (inches)	Pen. Resist (blows/6 in.)	Coring Time (min./ft)	Recovery (%)	RQD (%)	Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
0	SS	1	22	38 26 18 14								FILL		(FILL) Dark brown SILT, some Sand, some Gravel [7]	
	SS	2	16	8 7 4 4								4.0 4.0		(FILL) Dark brown m-f SAND, little Silt, trace Gravel [7]	
5	SS	3	15	5 4 4 5								SAND		(SP) Brown m-f SAND, trace Gravel [6]	
	SS	4	12	3 4 4 3								8.0 0.0		(SP) Brown gray m-f SAND, trace Gravel [6]	
	SS	5	1	woh woh woh woh								SILT		(ML) Gray SILT, some Sand [6]	
10	SS	6	8	woh woh 2 2										(ML) Gray SILT, some Sand, trace Gravel [6]	
15	SS	7	14	1 2 1 1										(ML) Dark gray SILT, little Sand [6]	
												18.5 -10.5			
												SAND			
20	SS	8	10	4 6 7 6										(SP) Brown c-f SAND, trace Gravel [3b]	
25															

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NOTES:
1) Stratification lines represent approximate boundary between material types, transitions may be gradual.
2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. AC = After coring; NR = Not Recorded.
3) Abbreviations: A = Auger; C = Core; MC=Macrocore; D = Driven; G = Grab; PS = Piston Sample; SS = Split Spoon; SSL = 3.5 Inch ID Split Spoon; ST = Shelby Tube; V = Vane; WOR/H = Weight of Rod/Hammer
4) Proportions Used: Trace = 1-10%; Little = 10-20%; Some = 20-35%; And = 35-50%
5) (SP) = Unified Soil Classification System symbol; [3a] = NYC Building Code Classification

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-4
Page No.: 2 of 2
File No.: 3765-011

Depth (ft)	SAMPLE INFORMATION: GENERAL Type	Number	Recovery (inches)	SOIL Pen. Resist (blows/6 in.)	ROCK Coring Time (min./ft)	Recovery (%)	RQD (%)	LAB Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	STRATA Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
25	SS	9	9	15 8 5 6								SAND *(Continued)*		(SP) Brown m-f SAND, some Gravel [3b]	
												28.5 -20.5			
												GRAVEL			
30	SS	10	5	14 14 14 12										(GP) Gray green red GRAVEL [2b]	
35	SS	11	18	13 14 12 13										(GP) Reddish brown GRAVEL, some Sand [2b]	
												37.0 -29.0			
														Bottom of Exploration at 37.0 ft	
40															
45															
50															
55															

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-5

Page No.: 1 of 2

File No.: 3765-011

Boring Company:	Craig Geotechnical Drilling	Date Started:	4/3/2020
Foreman:	Mark Aquino	Date Completed:	4/3/2020
GeoDesign Rep.:	Jonathan Perez	Surface El. (ft):	8 (NAVD88)
Rig Type:	CME 75 Truck	Total Depth (ft):	37
Coordinates:		Rock Depth (ft):	

	Barrel	Casing	Sampler
Type:		FJ	SS
I.D.:		4.0 in.	1.38 in.
Hammer Wt.:		140 lbs	140 lbs
Hammer Fall:		30 in.	30 in.
Hammer Type:		Safety - Cathead	

GROUNDWATER OBSERVATIONS

DATE	DEPTH (ft)	ELEV. (ft)	NOTES
▼			
▼			
▼			

Depth (ft)	Type	Number	Recovery (inches)	Pen. Resist (blows/6 in.)	Coring Time (min./ft)	Recovery (%)	RQD (%)	Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
0	SS	1	14	30 16 9 5								FILL		(FILL) brown SILT, some gravel, little sand, trace brick [7]	Auto Hammer
5	SS	2	3	6 12 16 21								10.0 -2.0		(FILL) gray GRAVEL [7]	
10	SS	3	0	2 3 1 2								SAND		No Recovery	
15	SS	4	6	6 3 3 1								18.5 -10.5		(SP) light brown c-f SAND, some gravel, trace silt [6]	
20	SS	5	18	3 2 1 4								23.5 -15.5		(ML) gray SILT, trace sand [6]	
25															

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NOTES:
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3) Abbreviations: A = Auger; C = Core; MC=Macrocore; D = Driven; G = Grab; PS = Piston Sample; SS = Split Spoon; SSL = 3.5 Inch ID Split Spoon; ST = Shelby Tube; V = Vane; WOR/H = Weight of Rod/Hammer
4) Proportions Used: Trace = 1-10%; Little = 10-20%; Some = 20-35%; And = 35-50%
5) (SP) = Unified Soil Classification System symbol; [3a] = NYC Building Code Classification

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-5
Page No.: 2 of 2
File No.: 3765-011

Depth (ft)	SAMPLE INFORMATION: GENERAL Type	Number	Recovery (inches)	SOIL Pen. Resist (blows/6 in.)	ROCK Coring Time (min./ft)	Recovery (%)	RQD (%)	LAB Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	STRATA Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
25	SS	6	12	10 15 21 19										(SP) gray m-f SAND and GRAVEL, trace silt [3a]	
30	SS	7	12	33 43 23 21										(SP) brown c-f SAND, little gravel [3a]	
												33.5 -25.5 SILT			
35	SS	8	11	6 5 4 9								37.0 -29.0		(ML) light brown SILT, some gravel, little sand [6]	
														Bottom of Exploration at 37.0 ft	
40															
45															
50															
55															

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-6

File No.: 3765-011

Boring Company:	Craig Geotechnical Drilling	Date Started:	4/1/2020
Foreman:	Mark Aquino	Date Completed:	4/1/2020
GeoDesign Rep.:	Jonathan Perez	Surface El. (ft):	8 (NAVD88)
Rig Type:	CME 75 Truck	Total Depth (ft):	37
Coordinates:		Rock Depth (ft):	

	Barrel	Casing	Sampler
Type:		FJ	SS
I.D.:		4.0 in.	1.38 in.
Hammer Wt.:		140 lbs	140 lbs
Hammer Fall:		30 in.	30 in.
Hammer Type:		Automatic - Hydraulic	

GROUNDWATER OBSERVATIONS

DATE	DEPTH (ft)	ELEV. (ft)	NOTES
▼			
▼			
▼			

Depth (ft)	SAMPLE INFORMATION: GENERAL Type	Number	Recovery (inches)	SOIL Pen. Resist (blows/6 in.)	ROCK Coring Time (min./ft)	Recovery (%)	RQD (%)	LAB Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	STRATA Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
0	SS	1	20	23 15 16 12								FILL		(Fill) Dark brown Silt, little Sand, little Gravel [7]	
												3.5 / 4.5			
												SILT			
5	SS	2	14	3 3 3 3										(ML) Gray SILT and fine SAND, trace Gravel [6]	
10	SS	3	4	1 2 2 1										Difficult to classify due to low sample recovery. Sample included sand, silt, and gravel	
												13.5 / -5.5			
												SAND			
15	SS	4	6	1 3 2 2										(SP) Gray brown m-f SAND and GRAVEL [6]	
												18.5 / -10.5			
												SILT			
20	SS	5	13	3 2 2 3										(ML) Dark Brown gray SILT, some Sand, trace Gravel [6]	
												23.5 / -15.5			
												SAND			
25															

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NOTES:
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4) Proportions Used: Trace = 1-10%; Little = 10-20%; Some = 20-35%; And = 35-50%
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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-6

File No.: 3765-011

Depth (ft)	SAMPLE INFORMATION: GENERAL Type	Number	Recovery (inches)	SOIL Pen. Resist (blows/6 in.)	ROCK Coring Time (min./ft)	Recovery (%)	RQD (%)	LAB Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	STRATA Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
25	SS	6	2	4 4 1 1								SAND *(Continued)*		Difficult to classify due to low sample recovery. Sample included sand and gravel	
30	SS	7	14	9 7 8 7										(SP) Brown fine SAND [3B]	
												33.5 -25.5 SILT			
35	SS	8	19	3 5 13 7								37.0 -29.0		(ML) Brown SILT and m-f SAND, trace Gravel [5b]	
														Bottom of Exploration at 37.0 ft	
40															
45															
50															
55															

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-7

Page No.: 1 of 5

File No.: 3765-011

Boring Company:	Craig Geotechnical Drilling	Date Started:	4/2/2020
Foreman:	Mike Tarter	Date Completed:	4/2/2020
GeoDesign Rep.:	Jonathan Perez	Surface El. (ft):	8 (NAVD88)
Rig Type:	CME 75 Truck	Total Depth (ft):	122
Coordinates:		Rock Depth (ft):	

	Barrel	Casing	Sampler
Type:		FJ	SS
I.D.:		4.0 in.	1.38 in.
Hammer Wt.:		140 lbs	140 lbs
Hammer Fall:		30 in.	30 in.
Hammer Type:		Safety - Cathead	

GROUNDWATER OBSERVATIONS

DATE	DEPTH (ft)	ELEV. (ft)	NOTES
▼			
▼			
▼			

Depth (ft)	SAMPLE INFORMATION: GENERAL Type	Number	Recovery (inches)	SOIL Pen. Resist (blows/6 in.)	ROCK Coring Time (min./ft)	Recovery (%)	RQD (%)	LAB Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	STRATA Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
0	SS	1	14	23 21 6 5								FILL		(FILL) dark brown SILT, some gravel, little sand [7]	Auto Hammer
	SS	2	8	2 3 2 3										(FILL) brown m-f SAND and dark brown SILT, little gravel [7]	Auto Hammer
5	SS	3	0	3 1 6 3								6.0	2.0	No Recovery	
	SS	4	13	6 5 4 4								SILT		(ML) dark gray SILT, slight odor of petroleum [6]	
	SS	5	3	WOH WOH WOH WOH										(SM) light brown fine SAND and SILT [6]	
10	SS	6	16	WOH WOH 2 2										(ML) light brown SILT and fine SAND, trace gravel [6]	
15	SS	7	10	2 1 1 1										(SM) light brown m-f SAND and SILT [6]	
20	SS	8	9	5 5 2 7										(ML) gray SILT [6]	
	ST	1	21	PUSH										(ML) gray - dark brown SILT	
25				2 3										(ML) dark gray SILT [6]	

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-7
Page No.: 2 of 5
File No.: 3765-011

Depth (ft)	Type	Number	Recovery (inches)	Pen. Resist (blows/6 in.)	Coring Time (min./ft)	Recovery (%)	RQD (%)	Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
				SAMPLE INFORMATION: GENERAL / SOIL / ROCK / LAB								STRATA			
25	SS	9	21	3 3								SILT *(Continued)*			
												28.5 -20.5			
												SAND		(SP) brown m-f SAND [3b]	
30	SS	10	15	8 9 13 12											
35	SS	11	18	7 9 8 10										(SP) brown m-f SAND [3b]	
												38.5 -30.5			
												SILT		(ML) brown SILT, little sand, trace gravel [5b]	
40	SS	12	8	3 9 12 16											
45	SS	13	22	5 5 6 7										(ML) brown SILT, some sand [5b]	
												48.5 -40.5			
												SAND			
50	SS	14	1	30 25 18 16										(GP) gray GRAVEL [2a]	
55															

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-7
Page No.: 3 of 5
File No.: 3765-011

Depth (ft)	SAMPLE INFORMATION: GENERAL Type	Number	Recovery (inches)	SOIL Pen. Resist (blows/6 in.)	ROCK Coring Time (min./ft)	Recovery (%)	RQD (%)	LAB Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	STRATA Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
55	SS	15	10	8 13 16 16								SAND *(Continued)*		(SP) brown c-f SAND [3b]	
60	SS	16	12	10 14 16 16										(SP) brown c-f SAND [3b]	
65	SS	17	16	17 21 24 25										(SP) brown c-f SAND and GRAVEL [3a]	
70	SS	18	15	21 33 38 33										(SP) brown c-f SAND, little gravel [3a]	
75	SS	19	13	16 23 49								73.5 -65.5 SILT		(ML) gray SILT [5a]	Bouncing on last 6 with Auto Hammer
80	SS	20	16	9 13 26 27										(ML) white SILT, some decomposed rock [5a]	Appears like decomposed rock
85															

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-7

File No.: 3765-011

Depth (ft)	SAMPLE INFORMATION: GENERAL Type	Number	Recovery (inches)	SOIL Pen. Resist (blows/6 in.)	ROCK Coring Time (min./ft)	Recovery (%)	RQD (%)	LAB Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	STRATA Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
85	SS	21	22	9 16 22 26								SILT *(Continued)*		(ML) white SILT, some decomposed rock [5a]	Appears like decomposed rock
90	SS	22	22	13 22 23 32										(ML) white SILT, some decomposed rock [5a]	
												93.5 -85.5 SOFT ROCK			
95	SS	23	20	13 32 40 38										(SOFT ROCK) white DECOMPOSED ROCK [1d]	
100	SS	24	20	11 23 22 24										(SOFT ROCK) white DECOMPOSED ROCK [1d]	Auto Hammer
105	SS	25	20	10 13 23 26										(SP) black and white fine SAND, some decomposed rock [3a]	Auto Hammer Appears like decomposed rock
110	SS	26	20	13 23 26 30										(SOFT ROCK) dark greenish gray DECOMPOSED ROCK [1d]	Auto Hammer
115															

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-7

File No.: 3765-011

Depth (ft)	SAMPLE INFORMATION: GENERAL Type	GENERAL Number	GENERAL Recovery (inches)	SOIL Pen. Resist (blows/6 in.)	ROCK Coring Time (min./ft)	ROCK Recovery (%)	ROCK RQD (%)	LAB Liquid Limit	LAB Plastic Limit	LAB Moisture Content (%)	LAB Percent Fines	STRATA Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
115	SS	27	24	14 23 29 38								SOFT ROCK *(Continued)*		(SOFT ROCK) dark greenish gray - white DECOMPOSED ROCK [1d]	Auto Hammer
120	SS	28	20	24 29 39 35								122.0 -114.0		(SOFT ROCK) dark greenish gray DECOMPOSED ROCK [1d]	Auto Hammer
														Bottom of Exploration at 122.0 ft	
125															
130															
135															
140															
145															

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-8

Page No.: 1 of 2

File No.: 3765-011

Boring Company:	Craig Geotechnical Drilling	Date Started:	4/3/2020
Foreman:	Mark Aquino	Date Completed:	4/3/2020
GeoDesign Rep.:	Jonathan Perez	Surface El. (ft):	8 (NAVD88)
Rig Type:	CME 75 Truck	Total Depth (ft):	37
Coordinates:		Rock Depth (ft):	

	Barrel	Casing	Sampler
Type:		FJ	SS
I.D.:		4.0 in.	1.38 in.
Hammer Wt.:		140 lbs	140 lbs
Hammer Fall:		30 in.	30 in.
Hammer Type:		Safety - Cathead	

GROUNDWATER OBSERVATIONS

DATE	DEPTH (ft)	ELEV. (ft)	NOTES
▼ 4/6/20	4.3	3.7	
▼			
▼			

Depth (ft)	Type	Number	Recovery (inches)	Pen. Resist (blows/6 in.)	Coring Time (min./ft)	Recovery (%)	RQD (%)	Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	WELL LOG	REMARKS/ OTHER TESTS
0	SS	1	10	4 3 1 1								FILL		(FILL) brown SILT, some gravel, little sand [7]		Auto Hammer
	SS	2	8	12 9 5 4										(FILL) dark gray - light brown SILT and SAND, trace gravel [7]		Auto Hammer
5	SS	3	6	WOH WOH WOH 1										(FILL) dark gray c-f SAND, little silt [7]	▼	Auto Hammer
	SS	4	16	WOH 3 2 1								8.0		(FILL) dark gray - brown m-f SAND, little silt, trace gravel, slight odor of petroleum [7]		Auto Hammer
	SS	5	2	2 1 1 1								0.0 SILT		(GP) gray GRAVEL [6]		Auto Hammer
10	SS	6	20	WOH WOH WOH 1										(ML) brown SILT, some sand [6]		Auto Hammer
15	SS	7	0	WOH WOH WOH WOH										No Recovery		Auto Hammer
20	SS	8	0	5 10 4 4										No Recovery		No recovery w/ 3 SS
25																

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-8
Page No.: 2 of 2
File No.: 3765-011

Depth (ft)	SAMPLE INFORMATION: GENERAL Type	Number	Recovery (inches)	SOIL Pen. Resist (blows/6 in.)	ROCK Coring Time (min./ft)	Recovery (%)	RQD (%)	LAB Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	STRATA Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	WELL LOG	REMARKS/ OTHER TESTS
25	SS	9	10	5 2 2 3								SILT *(Continued)*		(ML) gray SILT, little sand, pieces of wood [6]		3 SS
30	SS	10	8	11 29 25 20										(SM) brown - light brown m-f SAND and SILT, some gravel [3a]		
35	SS	11	9	18 18 9 6								37.0 -29.0		(ML) light brown SILT and m-f SAND, trace gravel [5b]		
														Bottom of Exploration at 37.0 ft		
40																
45																
50																
55																

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-9

File No.: 3765-011

Boring Company:	Craig Geotechnical Drilling	Date Started:	3/30/2020
Foreman:	Mark Aquino	Date Completed:	3/30/2020
GeoDesign Rep.:	Jonathan Perez	Surface El. (ft):	8 (NAVD88)
Rig Type:	CME 75 Truck	Total Depth (ft):	52
Coordinates:		Rock Depth (ft):	

	Barrel	Casing	Sampler
Type:		FJ	SS
I.D.:		4.0 in.	1.38 in.
Hammer Wt.:		140 lbs	140 lbs
Hammer Fall:		30 in.	30 in.
Hammer Type:		Automatic - Hydraulic	

GROUNDWATER OBSERVATIONS

DATE	DEPTH (ft)	ELEV. (ft)	NOTES
▼			
▼			
▼			

Depth (ft)	SAMPLE INFORMATION: GENERAL Type	Number	Recovery (inches)	SOIL Pen. Resist (blows/6 in.)	ROCK Coring Time (min./ft)	Recovery (%)	RQD (%)	LAB Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	STRATA Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
0	SS	1	12	8 14 15 12								FILL		(FILL) Dark brown SILT, some Sand, some Gravel, tace Asphalt [7]	
5	SS	2	2	2 2 2 2								8.5 -0.5		(FILL) Dark gray SILT and GRAVEL, trace Sand [7]	
												SAND			
10	SS	3	1	1 1 1 1										Difficult to classify due to low sample recovery. Sample included sand and gravel	
15	SS	4	4	1 2 1 1										(SM) Brown m-f SAND, some Gravel, little Silt [6]	
												18.5 -10.5			
												SILT			
20	SS	5	12	3 2 1 1										(ML) Dark gray SILT, trace Sand [6]	
												23.5 -15.5			
25												SAND			

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NOTES:
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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-9

File No.: 3765-011

Depth (ft)	SAMPLE INFORMATION: GENERAL Type	Number	Recovery (inches)	SOIL Pen. Resist (blows/6 in.)	ROCK Coring Time (min./ft)	Recovery (%)	RQD (%)	LAB Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	STRATA Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
25	SS	6	14	5 9 11 11								SAND *(Continued)*		(SP) Reddish brown fine SAND [3b]	
30	SS	7	13	4 3 3 6										(SM) Reddish brown fine SAND, some Silt, trace Gravel [6]	
												33.5 -25.5			
												SILT			
35	SS	8	24	2 6 4 3										(ML) Brown SILT and SAND, little Gravel (6)	
												38.5 -30.5			
												SAND			
40	SS	9	12	10 10 7 10										(SP) Light brown m-f SAND, trace Gravel [3b]	
45	SS	10	0	11 12 13 11										No revovery	
50	SS	11	10	10 10 11 11										(SP) Brown gray c-f SAND (3b)	
												52.0 -44.0			
														Bottom of Exploration at 52.0 ft	
55															

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: **B-10**

Page No.: 1 of 4

File No.: 3765-011

Boring Company:	Craig Geotechnical Drilling	Date Started:	3/27/2020
Foreman:	Mark Aquino	Date Completed:	3/30/2020
GeoDesign Rep.:	Jonathan Perez	Surface El. (ft):	8 (NAVD88)
Rig Type:	CME 75 Truck	Total Depth (ft):	107
Coordinates:		Rock Depth (ft):	

	Barrel	Casing	Sampler
Type:		FJ	SS
I.D.:		4.0 in.	1.38 in.
Hammer Wt.:		140 lbs	140 lbs
Hammer Fall:		30 in.	30 in.
Hammer Type:		Safety - Cathead	

GROUNDWATER OBSERVATIONS

DATE	DEPTH (ft)	ELEV. (ft)	NOTES
▼			
▼			
▼			

Depth (ft)	Type	Number	Recovery (inches)	Pen. Resist (blows/6 in.)	Coring Time (min./ft)	Recovery (%)	RQD (%)	Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
0	SS	1	4	18 12 13 15								FILL		(FILL) dark brown - light brown fine SAND, little asphalt, trace gravel [7]	
5	SS	2	0	6 13 6 4										No Recovery	
10	SS	3	2	WOH WOH WOH WOH								13.5 -5.5		(FILL) brown - gray - black - white GRAVEL [7]	No Recovery with 2 SS 3 SS
15	SS	4	2	5 3 5 3								GRAVEL		Difficult to classify due to low sample recovery. Sample included sand and gravel	
20	SS	5	1	2 4 6 9										Difficult to classify due to low sample recovery. Sample included sand and gravel	
25															

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NOTES:
1) Stratification lines represent approximate boundary between material types, transitions may be gradual.
2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. AC = After coring; NR = Not Recorded.
3) Abbreviations: A = Auger; C = Core; MC=Macrocore; D = Driven; G = Grab; PS = Piston Sample; SS = Split Spoon; SSL = 3.5 Inch ID Split Spoon; ST = Shelby Tube; V = Vane; WOR/H = Weight of Rod/Hammer
4) Proportions Used: Trace = 1-10%; Little = 10-20%; Some = 20-35%; And = 35-50%
5) (SP) = Unified Soil Classification System symbol; [3a] = NYC Building Code Classification

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BORING LOG

PROJECT NAME

475 Bay Street

Staten Island, New York

Boring No.: B-10
Page No.: 2 of 4
File No.: 3765-011

Depth (ft)	SAMPLE INFORMATION: GENERAL Type	Number	Recovery (inches)	SOIL Pen. Resist (blows/6 in.)	ROCK Coring Time (min./ft)	Recovery (%)	RQD (%)	LAB Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	STRATA Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
25	SS	6	6	8 10 13 11								GRAVEL *(Continued)*		(GP) gray GRAVEL, trace sand [2b]	Auto Hammer
30	SS	7	20	10 10 8 10										(SP) brown fine SAND [3b]	Auto Hammer
35	SS	8	14	6 13 25 21										(GP) gray - reddish brown GRAVEL, some sand [2a]	Auto Hammer
40	SS	9	8	9 12 9 8										(GP) gray GRAVEL and brown fine SAND [2b]	Auto Hammer
45	SS	10	12	9 11 10 10								43.5 -35.5 SAND		(SP) brown c-f SAND, little gravel [3b]	Auto Hammer
50	SS	11	14	7 9 14 11										(SP) brown c-f SAND, trace gravel [3b]	Auto Hammer
55															

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Depth (ft)	SAMPLE INFORMATION: GENERAL Type	Number	Recovery (inches)	SOIL Pen. Resist (blows/6 in.)	ROCK Coring Time (min./ft)	Recovery (%)	RQD (%)	LAB Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	STRATA Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
55	SS	12	10	9 10 13 9								SAND *(Continued)*		(SP) brown m-f SAND [3b]	Auto Hammer
60	SS	13	10	6 12 13 14										(SP) brown m-f SAND [3b]	Auto Hammer
65	SS	14	16	10 11 16 10										(SP) white - dark gray m-f SAND, trace gravel [3b]	Auto Hammer Appears like decomposed rock
												68.5 -60.5 CLAY			
70	SS	15	20	6 10 13 18										(CL) light brown - greenish gray CLAY, little gravel [4b]	Auto Hammer Appears like decomposed rock
75	SS	16	16	16 12 12 18										(CL) light brown - greenish gray CLAY, little gravel, trace sand [4b]	Auto Hammer Appears like decomposed rock
80	SS	17	14	21 26 33 32										(SC) white - greenish gray c-m SAND, little soft rock, little clay [3a]	Auto Hammer
												83.5 -75.5 SAND			
85															

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Depth (ft)	SAMPLE INFORMATION: GENERAL Type	Number	Recovery (inches)	SOIL Pen. Resist (blows/6 in.)	ROCK Coring Time (min./ft)	Recovery (%)	RQD (%)	LAB Liquid Limit	Plastic Limit	Moisture Content (%)	Percent Fines	STRATA Depth & Elevation (ft)	SYMBOL	SAMPLE DESCRIPTION	REMARKS/ OTHER TESTS
85	SS	18	16	25 41 44 38								SAND *(Continued)*		(SP) light gray SAND [3a]	Auto Hammer
90	SS	19	14	46 50 54 49								93.5 -85.5 CLAY		(SP) light gray SAND [3a]	Auto Hammer
95	SS	20	22	7 10 13 30										(CL) white CLAY, little decomposed rock, little sand [4b]	Auto Hammer Appears like decomposed rock
100	SS	21	14	23 24 24 28										(CL) white CLAY, little decomposed rock, little sand [4b]	Auto Hammer Appears like decomposed rock
105	SS	22	22	12 12 22 29								107.0 -99.0		(CL) white CLAY, little decomposed rock, little sand [4b]	Auto Hammer Appears like decomposed rock
110														Bottom of Exploration at 107.0 ft	
115															

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APPENDIX B
LABORATORY TEST RESULTS

LABORATORY TESTING IS IN PROGRESS
TEST RESULTS WILL BE INCLUDED IN THE FINAL REPORT

APPENDIX C

GEOPHYSICAL SURVEY REPORTS