CONSTRUCTION COMPLETION REPORT

FOR

450 UNION STREET
BROOKLYN, NEW YORK
NYSDEC BCP Site No. C224219

Prepared For:

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c/o Pilot Real Estate Group LLC
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Prepared By:

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April 13, 2020
Langan Project No. 170301202

LANGAN

CERTIFICATION

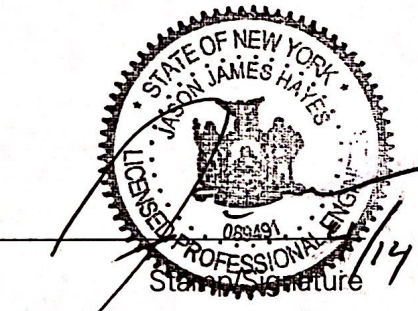
I, Jason Hayes, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Interim Remedial Measure Work Plan (IRMWP) was implemented and that all construction activities were completed in substantial conformance with the Department-approved IRMWP.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I, Jason Hayes, of Langan Engineering, Surveying, Landscape Architecture and Geology, D.P.C., am certifying as owner's Designated Site Representative.



089491-1	4-14-2020	4/14
NYS Professional Engineer #	Date	Stamp/Signature

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LIST OF ACRONYMS

BCA	Brownfield Cleanup Agreement
BGS	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene, and Total Xylenes
CAMP	Community Air Monitoring Plan
CCR	Construction Completion Report
CFR	Code of Federal Regulations
DER	Division of Environmental Remediation
DNAPL	Dense Non-Aqueous Phase Liquid
DRO	Diesel Range Organics
DUSR	Data Usability Summary Report
EDD	Electronic Data Deliverable
ELAP	Environmental Laboratory Approval Program
FDNY	New York City Fire Department
GPR	Ground Penetrating Radar
GRO	Gasoline Range Organics
IRM	Interim Remedial Measure
IRMWP	Interim Remedial Measure Work Plan
NAVD88	National Vertical Datum of 1988
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
OSHA	Occupational Safety and Health Administration
PAH	Polycyclic Aromatic Hydrocarbon
PBS	Petroleum Bulk Storage
PCB	Polychlorinated Biphenyl
PID	Photoionization Detector
ppm	Parts per Million
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
RRU	Restricted Residential Use
SCO	Soil Cleanup Objective
SOE	Support of Excavation

SS	Site-Specific
SVOC	Semivolatile Organic Compound
TAL	Target Analyte List
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
USEPA	United States Environmental Protection Agency
USTs	Underground Storage Tanks
VOCs	Volatile Organic Compounds

1.0 INTRODUCTION

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. prepared this Construction Completion Report (CCR) on behalf of 450 Union LLC (the Volunteer) for the property located at 450 Union Street in Brooklyn, New York (the site). The Volunteer executed a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) on September 1, 2015 to investigate and remediate the site for its intended use. This CCR describes and documents remedial activities completed on the western two-thirds of the site in accordance with the NYSDEC-approved Interim Remedial Measure Work Plan (IRMWP), dated February 16, 2017. The IRMWP accomplished the following tasks (described further in Section 3.0):

- Excavation and off-site disposal of soil with hazardous lead concentrations;
- Decommissioning and off-site disposal of a 550-gallon underground storage tank (UST);
- Localized excavations into the existing site cover for installation of awning footings, planter beds, and tree pits and off-site disposal of excavated material;
- Collection and analysis of confirmation soil samples following the hazardous lead soil and UST excavations and documentation soil samples following the awning footing, planter bed, and tree pit excavations;
- Restoration of the site cover system with concrete, asphalt, and landscaped surfaces underlain by a high-visibility demarcation barrier; and
- Completion of a site-wide land survey.

Remaining contamination will be addressed in a forthcoming Remedial Action Work Plan (RAWP). A copy of the NYSDEC IRMWP approval letter is included in Appendix A.

2.0 SITE BACKGROUND

2.1 Site Description and History

The 450 Union Street brownfield site, also identified as Block 438, Lot 7 on the Brooklyn Tax Map, is about 28,500 square feet (0.65 acres) and located in an M2-1 Manufacturing District in the Gowanus Neighborhood of Brooklyn, New York. Site improvements include a one-story, 9,880-square-foot building (the "Green Building") and two ancillary storage buildings used as a private event space, art gallery, and restaurant with seasonal outdoor space. The exterior portion of the site contains an enclosed area for social events/restaurant space and storage areas. A bulkhead consisting of a 12-foot-high concrete wall supported by timber cribbing separates the property from the east-adjoining Gowanus Canal. A Site Location Map is provided as Figure 1. The property extents and site features are depicted on the Site Plan (Figure 2).

The site is located within a historically industrial and manufacturing area along the Gowanus Canal and was developed as early as 1886 for historical manufacturing and industrial operations that included coal and wood storage, granite works, die casting and electroplating, vehicle repair with fuel storage, and a foundry. Sometime after 2007, the site ended industrial operations and was used for commercial business before being converted into the current event space and restaurant.

Environmental investigations performed between 2001 and 2016 identified hazardous concentrations of lead in soil, a potential UST, and a site-wide layer of historic fill. Coal tar impacts and dense non-aqueous phase liquid (DNAPL) coal tar accumulation originating from an off-site source is present at the eastern end of the site and may be contributing to groundwater contamination. In addition, an in-ground vault containing accumulated sediment with hazardous concentrations of lead was identified during the 2016 Remedial Investigation (RI). The hazardous sediment was removed for off-site disposal and the vault was closed in-place by filling with grout as part of the RI, both of which are documented in the May 5, 2017 Remedial Investigation Report (RIR).

2.2 Site Physical Conditions

2.2.1 Topography

According to a Boundary and Topographic Survey prepared by Langan, dated June 13, 2017, the site elevation (el.) ranges from about 13 feet (NAVD88[1]) in the eastern part of the site along the Gowanus Canal to about 11 feet in the western part of the site near Bond Street.

2.2.2 Geologic Conditions

The buildings and asphalt-covered areas are underlain by historic fill, predominately consisting of brown to grey, fine to coarse sand and silt with varying amounts of gravel, coal ash, brick, wood, glass, plastic, slag, and foam fragments. The depth of fill varies between about 8 and 14 feet

[1] Datum refers to the North American Vertical Datum of 1988 (NAVD88) which is approximately 1.1 feet above mean sea level datum at Sandy Hook New Jersey as defined by the United States Geologic Survey (USGS NGVD 1929).

below grade surface (bgs). The fill layer is most shallow near the western part of the site and deepest within the south-central part of the site.

The USGS "Bedrock and Engineering Geologic Maps of New York County and Parts Kings and Queens Counties, New York, and Parts of Bergen and Hudson Counties, New Jersey" indicates that the bedrock underlying the site is part of the Hartland Formation. Based on a geotechnical investigation completed by Langan in the vicinity of the site, the depth to bedrock is at least 100 feet bgs.

2.2.3 Hydrogeology

According to synoptic depth-to-groundwater measurements collected during the RI, water was encountered between about el. 3.6 feet and 3.9 feet. Based on the well gauging results, and consistent with the surrounding area, groundwater appears to flow to the east toward the Gowanus Canal.

3.0 INTERIM REMEDIAL MEASURE

The objective of the IRM was to prevent additional environmental impacts to site media (soil, groundwater and soil vapor) by decommissioning the UST and removing any associated petroleum-contaminated soil, removing historic fill material with characteristic hazardous lead concentrations, and removing historic fill disturbed as part of the construction-related earthwork. Brookside Environmental, Inc. supported the implementation of the NYSDEC-approved IRMWP from February 17 to May 3, 2017. The IRM consisted of the following:

- Geophysical subsurface survey and waste characterization soil sampling within the UST and hazardous lead hotspot areas for disposal purposes;
- Collection of three unfiltered and three field-filtered groundwater samples from three existing monitoring wells to demonstrate that contaminants detected in groundwater at concentrations exceeding applicable New York State drinking water standards during the RI are influenced by suspended solids from historic fill and not present in dissolved phase;
- Excavation to about 5 feet bgs and off-site disposal of soil containing characteristic hazardous concentrations of lead;
- Advancement of four test pits in the vicinity of the UST to identify its size, orientation, and distance from the adjacent building;
- Removal, decommissioning, and off-site disposal of one 550-gallon UST;
- Localized excavations into the existing site cover for installation of awning footings, planter beds, and tree pits and off-site disposal of excavated material;
- Implementation of a community air monitoring program and site-specific health and safety plan during ground-intrusive work;
- Collection and analysis of confirmation soil samples following the hazardous lead soil and UST excavations and documentation soil samples following the awning footing, planter bed, and tree pit excavations;
- Restoration of the site cover with concrete, asphalt, and landscaped surfaces underlain by a high-visibility demarcation barrier; and
- Completion of a site-wide land survey.

3.1 Waste Characterization

On January 23, 2017, a limited waste characterization was performed in advance of the IRM to classify soil in the UST and hazardous lead soil hotspots for waste disposal purposes. Prior to soil boring advancement, NOVA Geophysical of Douglaston, New York used ground-penetrating radar (GPR) to clear proposed boring locations of utilities and subsurface anomalies. Langan collected grab and composite soil samples from each hotspot for laboratory analysis in general accordance with disposal facility requirements, as follows:

- One grab and one five-point composite soil sample were collected from the hazardous lead hotspot; and
- Two grab and two five-point composite soil samples were collected from the UST area.

Waste characterization samples were submitted to Alpha Analytical Inc. (Alpha), a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-approved laboratory, for analysis. Waste characterization samples were analyzed for volatile organic compounds (VOCs), total petroleum hydrocarbons – gasoline-range organics (TPH-GRO) and diesel-range organics (TPH-DRO), SVOCs, pesticides, herbicides, polychlorinated biphenyls (PCBs), total metals (including hexavalent chromium and cyanide), metals via the toxicity characteristic leaching procedure (TCLP), and Resource Conservation and Recovery Act (RCRA) characteristics (ignitability, corrosivity, and reactivity).

On April 10, 2017, one additional waste characterization sample was collected from a stockpile containing soil from the awning footing and planter/tree pit excavations and submitted to Alpha for analysis of VOCs, PCBs, and TCLP metals. Waste characterization laboratory analytical reports are included in Appendix B.

3.2 Unfiltered and Filtered Groundwater Sampling

The IRMWP proposed site-specific (SS) soil cleanup objectives (SCOs) for semivolatile organic compounds (SVOCs) that are above Title 6 of the New York Codes, Rules, and Regulations (6 NYCRR) Part 375-6.8(b) Protection of Groundwater SCOs. At the request of the NYSDEC, unfiltered and field-filtered groundwater samples were collected from three existing monitoring wells to verify whether SVOCs are dissolved in groundwater or caused by suspended solids from the historic fill layer. As shown on Table 1, the results demonstrate that dissolved SVOCs are not present in groundwater, except for acenaphthylene detected in one well at a concentration below NYSDEC drinking water standards. The NYSDEC approved using the proposed SS SCOs for SVOCs in an email dated March 24, 2017 (included in Appendix A). The laboratory report is included as Appendix C. The Track 4 site-specific SCOs are summarized on Table 2a.

3.3 Hazardous Lead Soil Removal

On February 20, 2017, the characteristic hazardous lead hotspot represented by sample SB02, was excavated using a mini excavator. The hazardous lead hotspot excavation measured about 12 feet long by 11 feet wide by 5 feet deep, as shown on Figure 3. Excavated soil was transferred to a skid steer for loading into roll-off containers. The roll-off containers were covered with tight-fitting tarps and secured with straps prior to being transported off-site for disposal. The extents of the hazardous lead area were delineated during the RI and used the 6 NYCRR Part 375 Restricted Use Restricted-Residential SCOs and Part 371.3(e) Maximum Concentration of Contaminants for the Toxicity Characteristic for lead as the cleanup objective. The lead hotspot cleanup objectives are presented in Table 2b.

3.4 Underground Storage Tank Closure

3.4.1 Test Pit Investigation

A suspected UST was identified against the southeast corner of the Green Building on Sanborn Fire Insurance Maps (1938 to 2007) and confirmed during a geophysical study conducted as part of the 2016 RI. On February 17, 2017, Brookside Environmental advanced four test pits in the vicinity of the suspected UST to identify size, orientation, and distance from the adjacent Green Building. The 550-gallon UST was encountered about 3 feet bgs and was located about 8 feet south of the Green Building's southern wall. The tank sides were exposed to evaluate soil conditions below the tank and at the groundwater table. Visual, olfactory, and instrumental evidence of petroleum impacts were not observed. Brookside collected field measurements and determined that the tank was located far enough from the building that it could be safely excavated without support of excavation (SOE).

3.4.2 UST Removal

Brookside Environmental excavated the UST on April 3, 2017 using a TL48 excavator. A 15-foot-wide by 11-foot-long area was excavated to expose, decommission, and remove the UST. Piping and other accessories were not encountered. The UST was resting above a concrete pad within the groundwater table. Evidence of petroleum impacts to soil or groundwater was not observed. A reddish-brown sediment was observed at the base of the UST and exhibited petroleum-like odors and VOCs were measured with a photoionization detector (PID) at concentrations above 1,000 parts per million (ppm). A sample of the accumulated sediment was collected for documentation purposes.

After the tank was confirmed to be empty of free liquids, Brookside removed the UST, staged it on top of polyethylene sheeting, and began cleaning procedures. Signs of damage or potential leaking points were not identified during inspection of the UST. A hole was cut into the side of the steel UST and the accumulated sediment was removed. Once open, the UST interior was scrubbed using a degreasing solution to removal any petroleum residue. Accumulated sediment and liquid cleaning solution waste was collected into separate 55-gallon drums for off-site disposal. Brookside loaded the UST shell into a flatbed truck for transport and off-site disposal as scrap metal. A copy of the Fire Department of the City of New York (FDNY) tank closure affidavit, petroleum bulk storage (PBS) documentation (Site No. 2-611519), and documentation for disposal of the UST and associated contents is included in Appendix D. Excavated soil surrounding the UST was direct-loaded into dump trucks and transported off-site for disposal at a permitted disposal facility.

3.5 Site Improvements

Site improvements were completed by the property tenant and Volunteer as part of the IRM. Improvements penetrating the existing site cover included excavations for new awning support footings and planter/tree pit landscaping and are shown on Figure 3.

Atlas Builders & Construction hand-excavated 18 footings (2-foot-wide by 2-foot-long by 2-foot-deep) for new awning support footings installed around the site exterior. Soil was removed from each footing excavation and temporarily stockpiled on-site for waste characterization and off-site disposal. Each footing excavation was fitted with a wooden load-bearing beam and then filled with structural concrete/cement to surface grade. Landscaping improvements consisted of excavating site soil from existing planter beds and tree pits and excavating into the site cover for new planters and tree pits to depths varying between 2 and 4 feet bgs. Soil removed from landscape excavations was also stockpiled on-site for waste characterization and off-site disposal at a permitted facility.

On March 9, 2017, Atlas excavated one pit to about 4 feet below slab within the Green Building to investigate the existing foundation conditions. The soil was screened for potential impacts and temporarily stockpiled adjacent to the excavation. Gross impacts were not observed and the excavated material was backfilled into the test pit on April 10, 2017.

3.6 Excavation and Disposal

Langan documented soil excavation and disposal during the IRM, as described in Sections 3.1 through 3.5. Excavated material was screened for impacts, loaded into roll-off containers or direct loaded into dump trucks, and transported to the following disposal facilities:

Material Type	Quantity (tons)	Disposal Facility
Soil with hazardous concentrations of lead	27.08	Clean Earth North Jersey Kearny, New Jersey
Non-hazardous soil – UST excavation	50.99	Clean Earth Carteret Carteret, New Jersey
Non-hazardous soil – site improvements	56.80	Clean Earth Carteret Carteret, New Jersey
UST cleaning waste (drummed solids and liquids)	0.15	Clean Water of NY Staten Island, New York

Material disposal documentation, including soil disposal facility permits and approval letters, were reviewed by Langan prior to off-site transport. Hazardous and non-hazardous waste was handled, transported and disposed of by licensed haulers in accordance with applicable *6 New York Codes, Rules, and Regulations (NYCRR) Part 360--General Provisions, 6 NYCRR Part 364--Waste Transporter Permits regulations, 6 NYCRR Part 372-Hazardous Waste Manifest System and Related Standards for Generators, Transporters, and Facilities*, New York State Department of Transportation (NYSDOT) placarding requirements, and other applicable federal, state and local regulations. A tabulated summary of the waste disposal is provided in Table 3. Waste disposal documentation is included as Appendix E.

3.7 Remedial Performance Soil Sampling and Results

Remedial performance samples were collected to demonstrate conformance with the cleanup objectives proposed in the IRMWP and to document residual contamination following interim

remediation. Two types of remedial performance soil samples were collected and are defined in Division of Environmental Remediation (DER)-10 as follows:

- Confirmation Soil Samples – *"a sample taken during the course of a remedial action to determine whether cleanup requirements have been achieved or whether further remediation is required."*
- Documentation Soil Sample – *"a sample taken after remedial action is complete to document the level of contamination remaining."*

Remedial performance soil sample results with regulatory comparisons are summarized in Tables 4 through 6. Sample locations are presented on Figure 4. Laboratory reports are included as Appendix F.

3.7.1 Confirmation Soil Sample Results

Characteristic Hazardous Lead Hotspot

Confirmation soil samples were collected from each of the four sidewalls (3.5 to 4 feet bgs) and the excavation base (5 feet bgs) of the hazardous lead hotspot excavation and submitted for laboratory analysis of total and TCLP lead. The results were compared to 6 NYCRR Part 375-6.8(b) RRU SCOs and Title 40 of the Code of Federal Regulations (40 Code of Federal Regulations [CFR]) Part 261 Maximum Concentration of Contaminants for the Toxicity Characteristic, as summarized in Table 4. Sample results demonstrated that soil with hazardous concentrations of lead had been removed and residual soil contained concentrations of lead below RRU SCOs.

UST Excavation

Six confirmation soil samples were collected from the UST excavation for analysis of the NYSDEC CP-51 list of VOCs and SVOCs. One sample was collected from each of the four sidewalls (8 to 9 feet bgs) and two samples were collected from the excavation base, one from above the groundwater table (8 to 9 feet bgs) and one from below the groundwater table (9 to 10 feet bgs). The results were compared to 6 NYCRR Part 375-6.8(b) RRU SCOs, as summarized in Table 5. Detected concentrations of VOCs were below RRU SCOs in all samples.

Several SVOCs, including: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene, exceeded the Part 375 RRU SCOs in all samples. These six polycyclic aromatic hydrocarbons (PAHs) were at concentrations typically found in historic fill and at concentrations generally consistent with those detected in the historic fill layer during the RI. Petroleum impacts to soil and groundwater associated with the UST were not apparent in the excavation or in the sampled soil. Thus, the PAHs detected in the confirmation samples are attributed to historic fill and not to a petroleum release. The UST confirmation soil sample results demonstrate that petroleum-related VOCs and SVOCs are not present above background historic fill concentrations.

The reddish-brown sediment in the UST was sampled for comparison to previously identified compound concentrations. The UST sediment contained concentrations of 1,2,4-trimethlybenzene, 1,3,5-trimethylbenzene, benzene, toluene, ethylbenzene, and total

xylenes (BTEX) and naphthalene above RRU SCOs and is generally consistent with soil samples collected in the UST area during the RI.

3.7.2 Documentation Soil Sample Results

Eight documentation soil samples were collected from awning footing and planter bed excavations at a depth of about 2 to 4 feet bgs. Sample were analyzed for Target Compound List (TCL), Target Analyte List (TAL), and Part 375 list of VOCs, SVOCs, pesticides, herbicides, PCBs, and total metals (including hexavalent chromium and cyanide). The results with comparison to 6 NYCRR Part 375-6.8(b) RRU SCOs are summarized in Table 6.

VOCs, pesticides, herbicides, and PCBs were not detected above site-specific Track 4 SCOs. Several PAHs were detected at concentrations less than one order of magnitude above site-specific Track 4 SCOs, which is generally consistent with concentrations detected in historic fill during the RI. Mercury was detected above the Track 4 SCO at three locations within the center of the site. Sample DS04_3-4, near the center of the site, contained the highest concentration of mercury (190 mg/kg). The associated 4-foot excavation was backfilled with 3/4-inch clean stone to grade.

3.8 Imported Material

Backfill was imported to the site in accordance with the IRMWP between March 2 and May 3, 2017. Material import documentation, including sieve analysis reports, was reviewed by Langan prior to import. Upon delivery, imported material was screened by Langan field personnel and, based on visual, olfactory, and instrumental (PID) observations, determined to be consistent with reviewed import documents and the IRMWP requirements for backfill.

About 124.71 tons of material was imported to the site as follows:

Material Type	Quantity (tons)	Origin	Placement
Recycled Concrete Aggregate (RCA)	80	New York Concrete material (Pebble Lane Associates) in Maspeth, Queens, New York	Backfill for UST and hazardous lead excavations
3/4-inch Clean Limestone	43.10	Brooklyn Navy Yard in Brooklyn, New York	Cover for planter excavations
Commercial Topsoil (Purchased Locally)	1.11	Manufactured by Hampton Estates®	Cover for Tree Pits
Commercial Topsoil (Purchased Locally)	0.5	Manufactured by Scotts®	Cover for Tree Pits

A tabulated summary of the import facilities, material types, number of truckloads, and material quantities is provided in Table 7. Documentation and scale tickets for imported material are included in Appendix G.

3.9 Site Cover Restoration

Prior to the IRM, the site contained an existing asphalt cover across most exterior portions. Following intrusive work, the site cover was restored to existing conditions or in a manner consistent with the approved IRMWP (as shown on Figure 5), and consists of four cover types:

- Concrete building slabs and awning footings
- Asphalt (new and existing)
- 3/4-inch stone (landscaped areas)
- Commercial topsoil (landscaped areas)

Concrete Building Slabs

The Green Building and associated storage buildings contain a 6- to 8-inch-thick concrete slab cover. The building slabs remained undisturbed during the IRM, except for the investigative test pit used to identify the building foundation type. After inspection, the slab was restored in kind.

Virgin Stone Cover

Localized planter beds were capped with a 2-foot-thick layer of 3/4-inch virgin quarry stone, placed above a demarcation barrier (i.e., orange snow fence). In some excavations deeper than 2 feet, recycled concrete from a registered Part 360 recycling facility was used to fill the subbase and raise the grade for placement of the 2-foot stone cover.

Asphalt and Concrete Pavement

The site exterior is primarily covered by about 4-inch-thick asphalt. New asphalt was placed as a site cover in areas of former planter beds and to cap the UST excavation. New concrete was placed to cap former planters within the western part of the site and the hazardous lead excavation.

Commercial Topsoil

Tree pits located near the southeastern corner were backfilled with 2 feet of commercial topsoil, purchased from local retailers. The commercial topsoil was placed above a demarcation barrier and filled in around each of the two transplanted trees.

3.10 Site Survey

A site-wide survey was performed by Langan on April 5 and May 20, 2017 to document final post-IRM conditions. Langan surveyed site features, including but not limited to existing building extents, property lines, excavations, and elevations of the final site cover. A copy of the signed and sealed survey is included as Appendix H.

3.11 Dust, Odor, Vapor, and Nuisance Control Plan

Continuous air monitoring was conducted at stationary upwind and downwind locations relative to work areas for the duration of soil handling activities. Air quality monitoring was conducted in accordance with the NYSDOH Generic Community Air Monitoring Plan (CAMP) and Occupational

Safety and Health Administration (OSHA) standards for construction (29 CFR 1926).

Langan notified the contractor when instantaneous concentrations above the established threshold for PM10 were detected. When action levels were exceeded, dust was controlled by using water to suppress airborne particulates. Copies of the CAMP data are included as Appendix I.

3.12 Data Validation

Category B laboratory reports for soil and groundwater samples were provided by Alpha and reviewed by Langan's senior chemist for validation in accordance with United States Environmental Protection Agency (USEPA) and NYSDEC validation protocols and procedures. The data were determined to be acceptable. Completeness, defined as the percentage of analytical results that are judged to be valid, is 100%. There were no major deficiencies that grossly impact data quality and necessitate the rejection of results. Minor deficiencies, as flagged in the attached Data Usability Summary Reports (DUSRs), included anomalies that directly impact data quality and necessitate qualification but did not result in unusable data. Waste characterization soil samples were not validated because they represent material that was removed from the site.

DUSRs were prepared for all soil and groundwater data related to remedial performance. Category B laboratory reports and associated DUSRs are included in Appendix J. All sampling data generated in support of this report was submitted in accordance with NYSDEC's electronic data deliverable (EDD) format and was accepted by NYSDEC.

3.13 Reporting

Engineers, scientist and geologist under the supervision of the Remedial Engineer (RE) recorded their observations in field books and produced daily reports that summarized personnel on-site, work completed, CAMP performance, and the anticipated schedule of upcoming work. This data was used to track remediation progress, demonstrate compliance with the IRMWP, and summarize completed remedial actions to be submitted to the NYSDEC in daily reports. All daily reports are included in Appendix K. A digital photo log from the IRMWP implementation is included in Appendix L.

3.14 Deviations

Excavation of soil from existing planter beds and replacement with commercially available topsoil was not addressed in the IRMWP. The NYSDEC took no objection to the use of commercially available topsoil, per an email correspondence dated April 4, 2017 (included in Appendix A).

FIGURES

Figure 1 Site Location Map
Figure 2 Site Plan
Figure 3 Excavation Location Map
Figure 4 Confirmation and Documentation Soil Sample Locations Map
Figure 5 Site Cover Restoration Map



LEGEND:

APPROXIMATE BROWNFIELD CLEANUP PROGRAM SITE BOUNDARY

GENERAL NOTES:

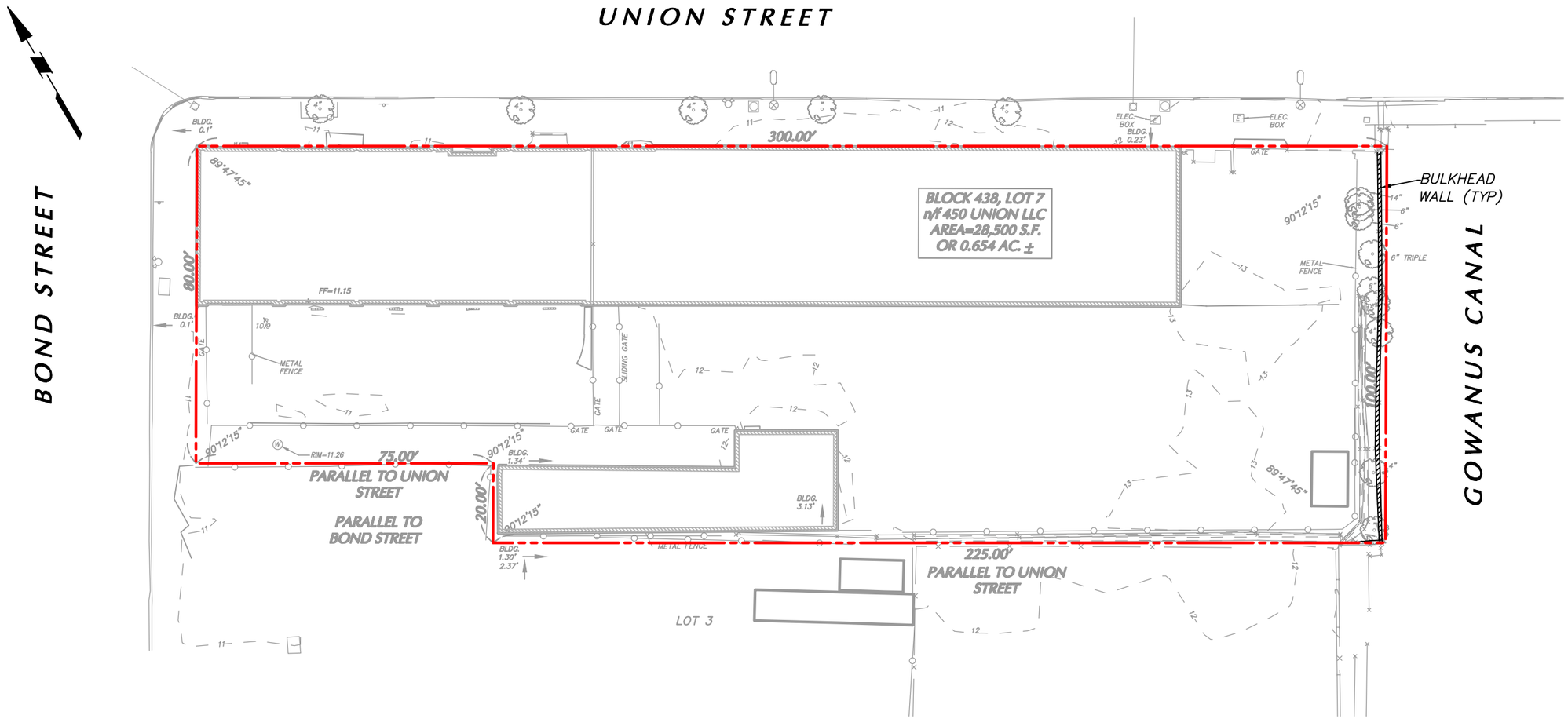
1. BASE MAP IS TAKEN FROM UNITED STATES GEOLOGICAL SURVEY (USGS) 7.5 MINUTE TOPOGRAPHIC MAPS FOR THE BROOKLYN, 1980 AND JERSEY CITY, 1982 QUADRANGLES.

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Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan CT, Inc.
Langan International LLC
Collectively known as Langan

Project	450 UNION STREET BLOCK No. 438, LOT No.7 BROOKLYN KINGS NEW YORK
Figure Title	SITE LOCATION MAP
Project No.	170301202
Date	10/19/2017
Scale	1"=1500'
Drawn By	AGT
Checked By	MSR
Submission Date	DECEMBER 2017
Figure No.	1
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LEGEND

APPROXIMATE BROWNFIELD CLEANUP PROGAM (BCP) SITE BOUNDARY

GENERAL NOTES

1. BASE MAP IS REFERENCED FROM BOUNDARY AND TOPOGRAPHIC SURVEY, PREPARED BY LANGAN, DATED JUNE 13, 2017.
2. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

30 0 15 30
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Langan CT, Inc.
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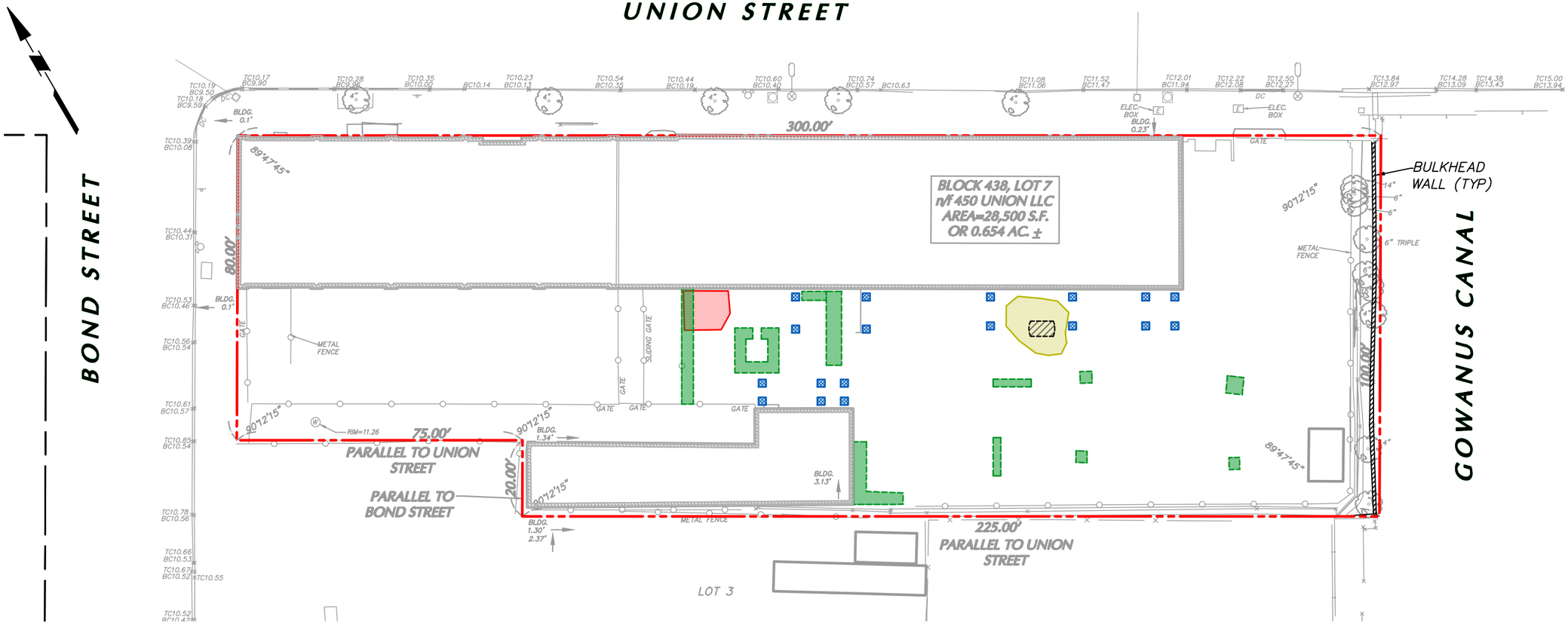
Project
450 UNION STREET
BLOCK No. 438, LOT No.7
BROOKLYN
KINGS **NEW YORK**

Figure Title
SITE PLAN

Project No. 170301202	Figure No. 2
Date 10/16/2017	
Scale 1: 30	
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LEGEND

- APPROXIMATE BROWNFIELD CLEANUP PROGAM (BCP) SITE BOUNDARY
- APPROXIMATE LOCATION OF FORMER UNDERGROUND STORAGE TANK (UST)
- APPROXIMATE LOCATION OF UST EXCAVATION (10 feet below grade surface [bgs])
- APPROXIMATE LOCATION OF HAZARDOUS LEAD HOTSPOT EXCAVATION (5 feet bgs)
- APPROXIMATE LOCATION OF AWNING FOOTING EXCAVATIONS (2 feet bgs)
- APPROXIMATE LOCATION OF PLANTER AND TREE PIT EXCAVATIONS (3 to 4 feet bgs)

GENERAL NOTES

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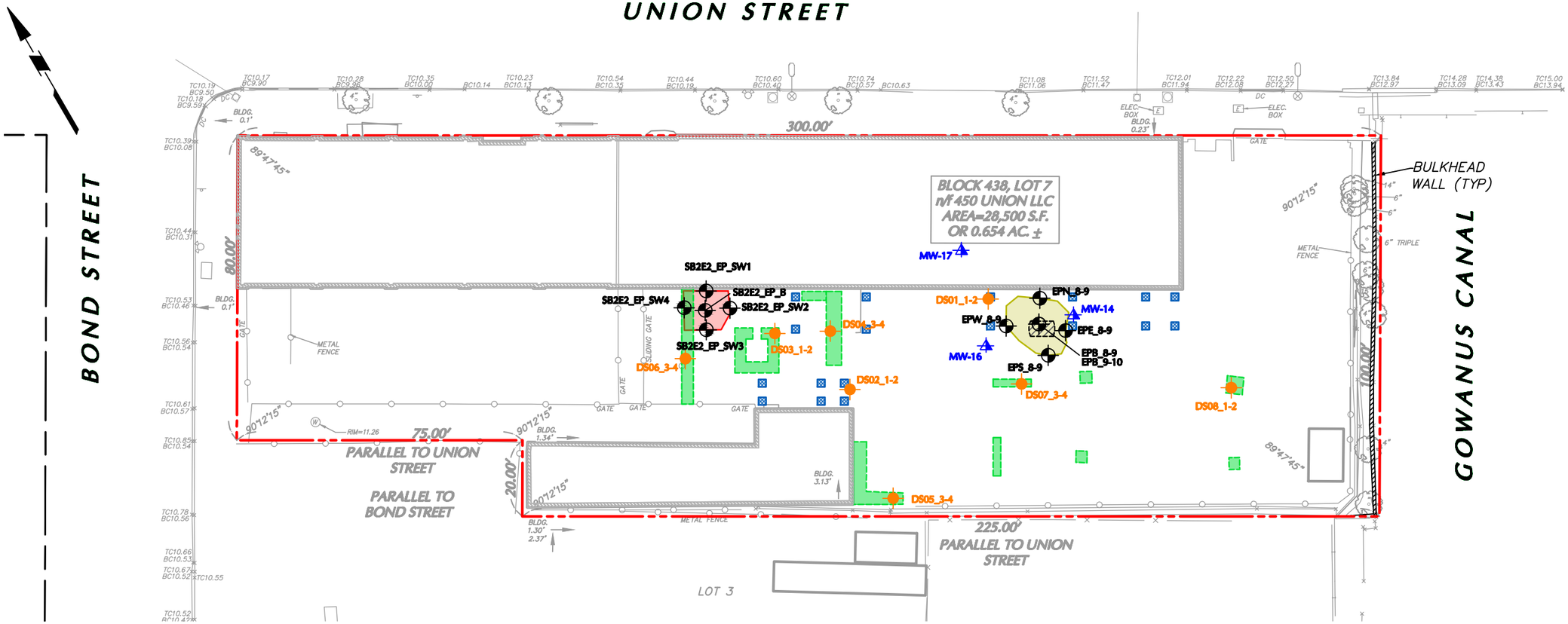
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Figure Title
EXCAVATION LOCATION MAP

Project No. 170301202	Figure No. 3
Date 10/16/2017	
Scale 1: 30	
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LEGEND

- APPROXIMATE BROWNFIELD CLEANUP PROGAM (BCP) SITE BOUNDARY
- APPROXIMATE LOCATION OF FORMER UNDERGROUND STORAGE TANK (UST)
- APPROXIMATE LOCATION OF UST EXCAVATION (10 feet below grade surface [bgs])
- APPROXIMATE LOCATION OF HAZARDOUS LEAD HOTSPOT EXCAVATION (5 feet bgs)
- APPROXIMATE LOCATION OF AWNING FOOTING EXCAVATIONS (2 feet bgs)
- APPROXIMATE LOCATION OF PLANTER AND TREE PIT EXCAVATIONS (3 to 4 feet bgs)
- SB2E2_EP_SW1 — APPROXIMATE CONFIRMATION SOIL SAMPLE LOCATIONS WITHIN (HAZARDOUS LEAD HOTSPOT AND UST EXCAVATION)
- DS01_1-2 — APPROXIMATE DOCUMENTATION SOIL SAMPLE LOCATIONS
- MW-16 — APPROXIMATE MONITORING WELL LOCATIONS

30 0 15 30
SCALE IN FEET

GENERAL NOTES

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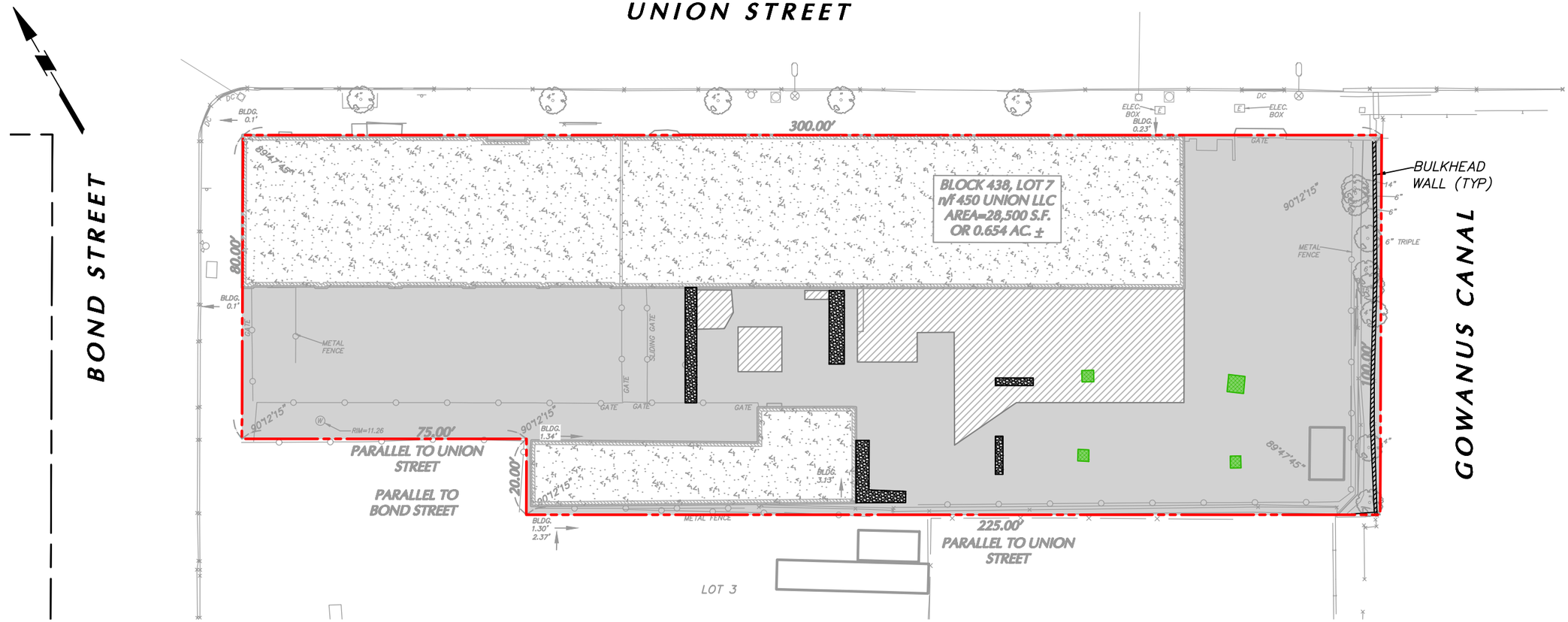
Project
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BLOCK No. 438, LOT No.7
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Figure Title
CONFIRMATION AND DOCUMENTATION SOIL SAMPLE LOCATION MAP

Project No. 170301202	Figure No. 4
Date 10/16/2017	
Scale 1: 30	
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Submission Date DECEMBER 2017	Sheet 4 of 5

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LEGEND

- APPROXIMATE BROWNFIELD CLEANUP PROGAM (BCP) SITE BOUNDARY
- SITE COVER - CONCRETE BUILDING SLABS AND AWNING FOOTINGS
- SITE COVER - EXISTING ASPHALT
- SITE COVER - NEW ASPHALT
- SITE COVER - MINIMUM 2 FEET OF CLEAN STONE
- SITE COVER - TREE PIT WITH TOPSOIL

30 0 15 30
SCALE IN FEET

GENERAL NOTES

1. BASE MAP IS REFERENCED FROM BOUNDARY AND TOPOGRAPHIC SURVEY, PREPARED BY LANGAN, DATED JUNE 13, 2017.
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Figure Title
SITE COVER RESTORATION MAP

Project No. 170301202	Figure No. 5
Date 10/16/2017	
Scale 1: 30	
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Submission Date DECEMBER 2017	Sheet 5 of 5

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Table 5 UST Confirmation Sample Results Summary
Table 6 Documentation Soil Sample Results Summary
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Table 1 - Summary of SVOCs in Non Filtered and Filtered Groundwater Samples
Construction Completion Report
450 Union Street, Brooklyn, New York
Langan Project No. 170301202
BCP Site No. C224219

SAMPLE ID	NYSDEC TOGS	MW14_022017		MW14_022017_FF		MW16_022017		MW16_022017_FF		MW17_022017		MW17_022017_FF	
SAMPLING DATE	SGVs	2/20/2017		2/20/2017		2/20/2017		2/20/2017		2/20/2017		2/20/2017	
LAB SAMPLE ID		L1705424-01		L1705424-02		L1705424-03		L1705424-04		L1705424-05		L1705424-06	
SAMPLE TYPE		Non Filtered		Field Filtered		Non Filtered		Field Filtered		Non Filtered		Field Filtered	
SVOCs (µg/L)													
1,2,4,5-Tetrachlorobenzene	5	10	U	10	U	10	U	10	U	10	U	10	U
1,2,4-Trichlorobenzene	5	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichlorobenzene	3	2	U	2	U	2	U	2	U	2	U	2	U
1,3-Dichlorobenzene	3	2	U	2	U	2	U	2	U	2	U	2	U
1,4-Dichlorobenzene	3	2	U	2	U	2	U	2	U	2	U	2	U
2,4,5-Trichlorophenol	~	5	U	5	U	5	U	5	U	5	U	5	U
2,4,6-Trichlorophenol	~	5	U	5	U	5	U	5	U	5	U	5	U
2,4-Dichlorophenol	1	5	U	5	U	5	U	5	U	5	U	5	U
2,4-Dimethylphenol	50	5	U	5	U	5	U	5	U	5	U	5	U
2,4-Dinitrophenol	10	20	U	20	U	20	U	20	U	20	U	20	U
2,4-Dinitrotoluene	5	5	U	5	U	5	U	5	U	5	U	5	U
2,6-Dinitrotoluene	5	5	U	5	U	5	U	5	U	5	U	5	U
2-Chlorophenol	~	2	U	2	U	2	U	2	U	2	U	2	U
2-Methylphenol	~	5	U	5	U	5	U	5	U	5	U	5	U
2-Nitroaniline	5	5	U	5	U	5	U	5	U	5	U	5	U
2-Nitrophenol	~	10	U	10	U	10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	5	5	U	5	U	5	U	5	U	5	U	5	U
3-Methylphenol/4-Methylphenol	~	5	U	5	U	5	U	5	U	5	U	5	U
3-Nitroaniline	5	5	U	5	U	5	U	5	U	5	U	5	U
4,6-Dinitro-o-cresol	~	10	U	10	U	10	U	10	U	10	U	10	U
4-Bromophenyl phenyl ether	~	2	U	2	U	2	U	2	U	2	U	2	U
4-Chloroaniline	5	5	U	5	U	5	U	5	U	5	U	5	U
4-Chlorophenyl phenyl ether	~	2	U	2	U	2	U	2	U	2	U	2	U
4-Nitroaniline	5	5	U	5	U	5	U	5	U	5	U	5	U
4-Nitrophenol	~	10	U	10	U	10	U	10	U	10	U	10	U
Acetophenone	~	5	U	5	U	5	U	5	U	5	U	5	U
Benzoic Acid	~	50	U	50	U	50	U	50	U	50	U	50	U
Benzyl Alcohol	~	2	U	2	U	2	U	2	U	2	U	2	U
Biphenyl	~	2	U	2	U	2	U	2	U	2	U	2	U
Bis(2-chloroethoxy)methane	5	5	U	5	U	5	U	5	U	5	U	5	U
Bis(2-chloroethyl)ether	1	2	U	2	U	2	U	2	U	2	U	2	U
Bis(2-chloroisopropyl)ether	5	2	U	2	U	2	U	2	U	2	U	2	U
Bis(2-ethylhexyl)phthalate	5	3	U	3	U	3	U	3	U	3	U	3	U
Butyl benzyl phthalate	50	5	U	5	U	5	U	5	U	5	U	5	U
Carbazole	~	0.76	J	2	U	2.4		2	U	2	U	2	U
Di-n-butylphthalate	50	5	U	5	U	5	U	5	U	5	U	5	U
Di-n-octylphthalate	50	5	U	5	U	5	U	5	U	5	U	5	U
Dibenzofuran	~	2	U	2	U	1.9	J	2	U	2	U	2	U
Diethyl phthalate	50	5	U	5	U	5	U	5	U	5	U	5	U
Dimethyl phthalate	50	5	U	5	U	5	U	5	U	5	U	5	U
Hexachlorocyclopentadiene	5	20	U	20	U	20	U	20	U	20	U	20	U
Isophorone	50	5	U	5	U	5	U	5	U	5	U	5	U
n-Nitrosodi-n-propylamine	~	5	U	5	U	5	U	5	U	5	U	5	U
NDPA/DPA	50	2	U	2	U	2	U	2	U	2	U	2	U
Nitrobenzene	0.4	2	U	2	U	2	U	2	U	2	U	2	U
p-Chloro-m-cresol	~	2	U	2	U	2	U	2	U	2	U	2	U
Phenol	1	5	U	5	U	5	U	5	U	5	U	5	U
2-Chloronaphthalene	10	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
2-Methylnaphthalene	~	0.2	U	0.2	U	0.18	J	0.2	U	0.2	U	0.2	U
Acenaphthene	20	0.42		0.1	U	1.2		0.1	U	0.1	U	0.06	J
Acenaphthylene	~	0.19	J	0.2	U	0.69		0.2	U	0.2	U	0.2	U
Anthracene	50	0.19	J	0.2	U	0.8		0.2	U	0.2	U	0.2	U
Benzo(a)anthracene	0.002	**0.24**		0.2	U	**0.74**		0.2	U	**0.03**	J	0.2	U
Benzo(a)pyrene	0 (Non Detect)	**0.2**		0.2	U	**0.64**		0.2	U	0.2	U	0.2	U
Benzo(b)fluoranthene	0.002	**0.25**		0.2	U	**0.81**		0.2	U	**0.02**	J	0.2	U
Benzo(ghi)perylene	~	0.1	J	0.2	U	0.34		0.2	U	0.2	U	0.2	U
Benzo(k)fluoranthene	0.002	**0.1**	J	0.2	U	**0.32**		0.2	U	0.2	U	0.2	U
Chrysene	0.002	**0.23**		0.2	U	**0.78**		0.2	U	0.2	U	0.2	U
Dibenzo(a,h)anthracene	~	0.2	U	0.2	U	0.1	J	0.2	U	0.2	U	0.2	U
Fluoranthene	50	0.91		0.2	U	2.4		0.2	U	0.05	J	0.2	U
Fluorene	50	0.59		0.2	U	1.7		0.2	U	0.2	U	0.2	U
Hexachlorobenzene	0.04	0.8	U	0.8	U	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	0.5	U	0.5	U
Hexachloroethane	5	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Indeno(1,2,3-cd)pyrene	0.002	**0.12**	J	0.2	U	**0.38**		0.2	U	0.2	U	0.2	U
Naphthalene	10	0.18	J	0.2	U	1.9		0.2	U	0.2	U	0.2	U
Pentachlorophenol	1	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Phenanthrene	50	0.83		0.2	U	3.3		0.2	U	0.02	J	0.2	U
Pyrene	50	0.74		0.2	U	1.8		0.2	U	0.1	J	0.2	U

Notes and Qualifiers:

1. Groundwater results are compared to the New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS)
1.1.1 Ambient Water Quality Standards and Guidance Values (SGVs) for Class GA drinking water.
2. Concentrations detected above NYSDEC TOGS SGVs are shaded and bolded.
3. µg/L = micrograms per liter
4. ~ = Criterion does not exist.
5. J = Compound was detected at or above the method detection limit but below the reporting limit; therefore data is estimated.
6. U = Compound was analyzed for, but was not detected at a level greater than or equal to the reporting limit (value shown).

Table 2a
Track 4 Site-Specific Soil Cleanup Objectives
450 Union Street, Brooklyn, NY
Langan Project No. 170301202
BCP Site No. C224219

	6 NYCRR Part 375 Restricted-Residential SCOs	6 NYCRR Part 375 Protection of Ground-water SCOs
VOCs (mg/kg)		
1,1,1-Trichloroethane	100	0.68
1,1-Dichloroethane	26	0.27
1,1-Dichloroethene	100	0.33
1,2,4-Trimethylbenzene	52	3.6
1,2-Dichlorobenzene	100	1.1
1,2-Dichloroethane	3.1	0.02
1,3,5- Trimethylbenzene	52	8.4
1,3-Dichlorobenzene	49	2.4
1,4-Dichlorobenzene	13	1.8
1,4-Dioxane	13	0.1
Acetone	100	0.05
Benzene	4.8	0.06
Butylbenzene	100	12
Carbon tetrachloride	2.4	0.76
Chlorobenzene	100	1.1
Chloroform	49	0.37
cis-1,2-Dichloroethene	100	0.25
Ethylbenzene	41	1
Hexachlorobenzene	1.2	3.2
Methyl ethyl ketone	100	0.12
Methyl tert-butyl ether	100	0.93
Methylene chloride	100	0.05
n-Propylbenzene	100	3.9
sec-Butylbenzene	100	11
tert-Butylbenzene	100	5.9
Tetrachloroethene	19	1.3
Toluene	100	0.7
trans-1,2-Dichloroethene	100	0.19
Trichloroethene	21	0.47
Vinyl chloride	0.9	0.02
Xylene (mixed)	100	1.6
SVOCs (mg/kg) - see note 2		
Acenaphthene	100	-
Acenapthylene	100	-
Anthracene	100	-
Benz(a)anthracene	1	-
Benzo(a)pyrene	1	-
Benzo(b)fluoranthene	1	-
Benzo(g,h,i)perylene	100	-
Benzo(k)fluoranthene	3.9	-
Chrysene	3.9	-
Dibenz(a,h)anthracene	0.33	-
Fluoranthene	100	-
Fluorene	100	-
Indeno(1,2,3-cd)pyrene	0.5	-
m-Cresol	100	-
Naphthalene	100	-
o-Cresol	100	-
p-Cresol	100	-
Pentachlorophenol	6.7	-
Phenanthrene	100	-
Phenol	100	-
Pyrene	100	-

	6 NYCRR Part 375 Restricted-Residential SCOs	6 NYCRR Part 375 Protection of Ground-water SCOs
PCBs/Pesticides (mg/kg)		
2,4,5-TP Acid (Silvex)	100	3.8
4,4'- DDD	13	14
4,4'-DDE	8.9	17
4,4'-DDT	7.9	136
Aldrin	0.097	0.19
alpha-BHC	0.48	0.02
beta-BHC	0.36	0.09
Chlordane (alpha)	4.2	2.9
delta-BHC	100	0.25
Dibenzofuran	59	210
Dieldrin	0.2	0.1
Endosulfan I	24	102
Endosulfan II	24	102
Endosulfan sulfate	24	1,000
Endrin	11	0.06
Heptachlor	2.1	0.38
Lindane	1.3	0.1
Polychlorinated biphenyls	1	3.2
Metals (mg/kg)		
Arsenic (see note 3)	16	-
Barium	400	820
Beryllium	72	47
Cadmium (see note 3)	9.3	-
Chromium, hexavalent	110	19
Chromium, trivalent	180	~
Copper (see note 3)	1,720	-
Lead (see note 3)	1,000	-
Manganese	2,000	2,000
Nickel	310	130
Selenium	180	4
Silver	180	8.3
Total Cyanide	27	40
Total Mercury (see note 3)	2.8	-
Zinc	10,000	2,480

Notes:

1. The Site-Specific Track 4 Soil Cleanup Objectives (SCOs) are the lower of 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 Restricted Use Restricted-Residential or Protection of Groundwater SCOs for VOCs, PCBs, pesticides, and metals, except for the Site-Specific SCOs noted in the above table.
2. Site-Specific Track 4 SCOs for SVOCs are the Restricted-Residential SCOs.
3. Track 4 SCOs for the noted metals are site-specific.
3. VOC: volatile organic compound
4. SVOC: semivolatile organic compound
5. PCB: polychlorinated biphenyl
6. mg/kg: milligram per kilogram

Table 2b
Lead Hotspot Soil Cleanup Objectives
450 Union Street, Brooklyn, NY
Langan Project No. 170301202
BCP Site No. C224219

	6 NYCRR Part 375 Restricted-Residential SCOs	6 NYCRR Part 371.3 Toxicity Characteristic
Metals (mg/kg)		
Lead	400	~
TCLP Metals (mg/L)		
Lead	~	5

Notes:

1. The lead hotspot Soil Cleanup Objectives (SCOs) are the Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (6 NYCRR) Part 375 Restricted Use Restricted-Residential Soil Cleanup Objectives (SCOs) and the 6 NYCRR Part 371.3 Maximum Concentrations of Contaminants for the Toxicity Characteristic.
2. mg/kg: milligram per kilogram
3. mg/L: milligram per liter

Table 3
Soil Disposal Summary
Construction Completion Report
450 Union Street, Brooklyn, NY
Langan Project No. 170301202
BCP Site No. C224219

Load No.	Daily Load No.	Date	Truck Company	State	Truck License	Material Type	Manifest No.	Estimated Quantity (cy)	Confirmed Quantity (tons)	Facility
1	1	2/23/2017	Horwith Trucks, Inc	NJ	AG12854	Hazardous Lead	000097383	7.77	11.66	CE North Jersey
2	2	2/23/2017	Horwith Trucks, Inc	PA	AF07824	Hazardous Lead	000097384	10.28	15.42	CE North Jersey
3	1	4/4/2017	CV Trucking	NJ	AT537B	UST Excavation Soil	1289040	19.28	28.92	CE Carteret
4	2	4/4/2017	TEV Trucking	NJ	AT184D	UST Excavation Soil	1289041	14.71	22.07	CE Carteret
5	1	4/14/2017	Horwith Trucks, Inc	PA	AG12854	Historic Fill	1289024	4.16	6.24	CE Carteret
6	2	4/14/2017	Horwith Trucks, Inc	PA	AE92365	Historic Fill	1289023	12.34	18.51	CE Carteret
7	3	4/14/2017	Horwith Trucks, Inc	PA	AG12854	Historic Fill	1289022	14.81	22.21	CE Carteret
8	1	4/28/2017	Allstate Power Vac	NJ	AM655H	Historic Fill	1289025	6.56	9.84	CE Carteret
9	2	4/28/2017	Brookside Environmental	NY	24723MB	Tank Bottoms	BEI42817-1	0.08	0.13	Clean Water NY
10	3	4/28/2017	Brookside Environmental	NY	24723MB	Purge Water	BEI42817-1	0.02	0.03	Clean Water NY

Table 4
Hazardous Lead Hotspot Confirmation Soil Sample Results Summary
Construction Completion Report
450 Union Street, Brooklyn, New York
Langan Project No. 170301202
BCP Site No. C224219

SAMPLE ID SAMPLING DATE LAB SAMPLE ID SAMPLE LOCATION SAMPLE DEPTH (feet bgs)	NYSDEC Part 375 Restricted-Residential Use SCOs	40 CFR 261 Toxicity Characteristic Limits	SB2E2_EP_SW1 2/20/2017 L1705425-01 North Sidewall 3.5-4	SB2E2_EP_SW2 2/20/2017 L1705425-02 East Sidewall 3.5-4	SB2E2_EP_SW3 2/20/2017 L1705425-03 South Sidewall 3.5-4	SB2E2_EP_SW4 2/20/2017 L1705425-04 West Sidewall 3.5-4	SB2E2_EP_B 2/20/2017 L1705425-05 Excavation Base 5
Total Metals (mg/kg)							
Lead, Total	400	~	160	250	280	200	110
TCLP Metals (mg/L)							
Lead, TCLP	~	5	0.06 J	0.5 U	0.5 U	0.5 U	0.5 U
General Chemistry							
Solids, Total (%)	~	~	91	81.1	84.4	77.3	86.8

Notes and Qualifiers:

1. Confirmation soil samples for the hazardous lead hotspot are compared to New York Codes Rules, and Regulations (6 NYCRR) Part 375-6.8(b) Restricted Use Restricted-Residential Soil Cleanup Objectives (SCOs) and Title 40 of the Code of Federal Regulations (40 CFR) Part 261 Maximum Concentration of Contaminants for the Toxicity Characteristic.
2. Total and TCLP lead was either not detected or detected below applicable standards.
3. feet bgs = feet below grade surface
4. mg/kg = milligram per kilogram
5. mg/L = milligram per liter
6. TCLP = Toxicity Characteristic Leaching Procedure
7. ~ = criterion does not exist
8. J = Compound was detected at or above the method detection limit but below the reporting limit; therefore data is estimated.
9. U = Compound was analyzed for, but was not detected at a level greater than or equal to the reporting limit (value shown).

Table 5
UST Confirmation Sample Results Summary
Construction Completion Report
450 Union Street, Brooklyn, New York
Project No. 170301202
BCP Site No. C224219

Location	6 NYCRR Restricted-Residential Use SCOs	North Sidewall		East Sidewall		West Sidewall		South Sidewall		Base				Base (Below Groundwater)		UST Debris/Sludge	
Sample ID		EPN_8-9		EPE_8-9		EPW_8-9		EPS_8-9		EPB_8-9		DUP01_040317		EPB_9-10		UST01_040317	
Sample Date		4/3/2017		4/3/2017		4/3/2017		4/3/2017		4/3/2017		4/3/2017		4/3/2017		4/3/2017	
Laboratory Sample ID		L1710168-01		L1710168-02		L1710168-04		L1710168-03		L1710168-05		L1710168-07		L1710168-06		L1710168-08	
Sample Depth (feet bgs)		8 to 9		8 to 9		8 to 9		8 to 9		8 to 9		8 to 9		9 to 10		N/A	
VOCs (mg/kg)																	
1,2,4-Trimethylbenzene	52	0.0035	U	0.0056	U	0.0031	U	0.004	U	0.00025	J	0.0029	U	0.0001	J	**320**	
1,3,5-Trimethylbenzene	52	0.0035	U	0.0056	U	0.0031	U	0.004	U	0.00023	J	0.0029	U	0.0026	U	**120**	
Benzene	4.8	0.00071	U	0.0011	U	0.00063	U	0.00079	U	0.00065	U	0.00058	U	0.00023	J	**5.3**	
Ethylbenzene	41	0.00071	U	0.0011	U	0.00063	U	0.00079	U	0.00065	U	0.00058	U	0.00011	J	**210**	
Isopropylbenzene	~	0.00071	U	0.0011	U	0.00063	U	0.00079	U	0.00065	U	0.00058	U	0.00052	U	51	
Methyl tert butyl ether	100	0.0014	U	0.0022	U	0.0012	U	0.0016	U	0.0013	U	0.0012	U	0.001	U	4	U
Naphthalene	100	0.0035	U	0.0056	U	0.00012	J	0.004	U	0.00014	J	0.00028	J	0.00043	J	**140**	
n-Butylbenzene	100	0.00071	U	0.0011	U	0.00063	U	0.00079	U	0.00065	U	0.00058	U	0.00052	U	18	
n-Propylbenzene	100	0.00071	U	0.0011	U	0.00063	U	0.00079	U	0.00065	U	0.00058	U	0.00052	U	75	
o-Xylene	~	0.0014	U	0.0022	U	0.0012	U	0.0016	U	0.0013	U	0.0012	U	0.001	U	430	
p/m-Xylene	~	0.0014	U	0.0022	U	0.0012	U	0.0016	U	0.0013	U	0.0012	U	0.001	U	910	
p-Isopropyltoluene	~	0.00071	U	0.0011	U	0.00063	U	0.00079	U	0.00065	U	0.00058	U	0.00052	U	18	
sec-Butylbenzene	100	0.00071	U	0.0011	U	0.00063	U	0.00079	U	0.00065	U	0.00058	U	0.00052	U	21	
tert-Butylbenzene	100	0.0035	U	0.0056	U	0.0031	U	0.004	U	0.0032	U	0.0029	U	0.0026	U	4.8	J
Toluene	100	0.0011	U	0.0017	U	0.00094	U	0.0012	U	0.00098	U	0.00017	J	0.00042	J	**450**	
Xylenes, Total	100	0.0014	U	0.0022	U	0.0012	U	0.0016	U	0.0013	U	0.0012	U	0.001	U	**1300**	
SVOCs (mg/kg)																	
Acenaphthene	100	0.34		0.39		0.28		0.12	J	0.36		0.79		0.18		0.43	U
Acenaphthylene	100	0.39		0.63		0.27		0.15		0.36		0.39		0.28		0.43	U
Anthracene	100	1.3		1.7		1		0.41		1.5		1.8		0.85		0.3	J
Benzo(a)anthracene	1	**3.8**		**6.3**		**3.6**		**1.5**		**4.2**		**5.9**		**3**		0.78	
Benzo(a)pyrene	1	**3.6**		**6.1**		**3.6**		**1.5**		**4.1**		**5.9**		**3.1**		0.5	
Benzo(b)fluoranthene	1	**4.8**		**8.3**		**5**		**2**		**5.6**		**8.8**		**4.2**		0.9	
Benzo(ghi)perylene	100	2.6		4.4		2.4		1.1		3		4		2.2		0.36	J
Benzo(k)fluoranthene	3.9	1.6		2.6		1.4		0.69		1.7		2.7		1.3		0.26	J
Chrysene	3.9	3.8		**6.2**		3.6		1.6		**4.2**		**6**		3.1		0.84	
Dibenzo(a,h)anthracene	0.33	**0.59**		**1.1**		**0.62**		0.26		**0.66**		**1.1**		**0.52**		0.087	J
Fluoranthene	100	7.1		13		7		3.5		9.2		14		7.7		2	
Fluorene	100	0.4		0.38		0.26		0.096	J	0.4		0.71		0.17	J	0.54	U
Indeno(1,2,3-cd)pyrene	0.5	**2.7**		**4.7**		**2.6**		**1.1**		**3.1**		**4.3**		**2.3**		0.4	J
Naphthalene	100	0.15	J	0.2	J	0.16	J	0.049	J	0.14	J	0.79		0.061	J	93	
Phenanthrene	100	6.5		8.3		4.7		2		6.2		9.8		4.1		1.8	
Pyrene	100	6.1		10		6.2		3		7.4		12		6.4		1.6	
General Chemistry																	
Solids, Total	~	87		58.3		85.7		87.4		87.4		86		83.9		61.4	

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 Restricted Use Restricted-Residential Soil Cleanup Objectives (SCOs).
2. Concentrations detected above Part 375 Rectricted-Residential SCOs are shaded and bolded.
3. ~ = Criteria does not exist.
4. mg/kg = milligrams per kilogram
5. bgs = below grade surface.
6. VOC = volatile organic compound
7. SVOC = semivolatile organic compound
8. UST = underground storage tank
9. J = Compound was detected at or above the method detection limit but below the reporting limit; therefore data is estimated.
10. U = Compound was analyzed for, but was not detected at a level greater than or equal to the reporting limit (value shown).

Table 6
Documentation Soil Sample Results Summary
Construction Completion Report
450 Union Street, Brooklyn, New York
Langan Project No. 170301202
BCP Site No. C224219

SAMPLE ID SAMPLING DATE LAB SAMPLE ID SAMPLE DEPTH (feet bgs)	Track 4 Site Specific Soil Cleanup Objectives	DS01_1-2 4/5/2017 L1710511-01 1 to 2	DS02_1-2 4/5/2017 L1710511-02 1 to 2	DS03_1-2 4/6/2017 L1710724-01 1 to 2	DS04_3-4 4/10/2017 L1711107-01 3 to 4	DS05_3-4 4/10/2017 L1711107-02 3 to 4	DS06_3-4 4/10/2017 L1711107-03 3 to 4	DS07_3-4 4/28/2017 L1713623-01 3 to 4	DS08_1-2 4/28/2017 L1713623-02 1 to 2
VOCs (mg/kg)									
1,1,1,2-Tetrachloroethane	-	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.0012 U
1,1,1-Trichloroethane	0.68	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.0012 U
1,1,2,2-Tetrachloroethane	-	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.0012 U
1,1,2-Trichloroethane	-	0.001 U	0.001 U	0.0019 U	0.00081 U	0.00086 U	0.00081 U	0.0018 U	0.0018 U
1,1-Dichloroethane	0.27	0.001 U	0.001 U	0.0019 U	0.00081 U	0.00086 U	0.00081 U	0.0018 U	0.0018 U
1,1-Dichloroethene	0.33	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.0012 U
1,1-Dichloropropene	-	0.0033 U	0.0034 U	0.0062 U	0.0027 U	0.0029 U	0.0027 U	0.006 U	0.006 U
1,2,3-Trichlorobenzene	-	0.0033 U	0.0034 U	0.0062 U	0.0027 U	0.0029 U	0.0027 U	0.006 U	0.006 U
1,2,3-Trichloropropane	-	0.0066 U	0.0068 U	0.012 U	0.0054 U	0.0058 U	0.0054 U	0.012 U	0.012 U
1,2,4,5-Tetramethylbenzene	-	0.0027 U	0.0027 U	0.005 U	0.0022 U	0.0023 U	0.0022 U	0.0048 U	0.0048 U
1,2,4-Trichlorobenzene	-	0.0033 U	0.0034 U	0.0062 U	0.0027 U	0.0029 U	0.0027 U	0.006 U	0.006 U
1,2,4-Trimethylbenzene	3.6	0.0033 U	0.0034 U	0.0062 U	0.0027 U	0.0029 U	0.0027 U	0.006 U	0.006 U
1,2-Dibromo-3-chloropropane	-	0.0033 U	0.0034 U	0.0062 U	0.0027 U	0.0029 U	0.0027 U	0.006 U	0.006 U
1,2-Dibromoethane	-	0.0027 U	0.0027 U	0.005 U	0.0022 U	0.0023 U	0.0022 U	0.0048 U	0.0048 U
1,2-Dichlorobenzene	1.1	0.0033 U	0.0034 U	0.0062 U	0.0027 U	0.0029 U	0.0027 U	0.006 U	0.006 U
1,2-Dichloroethane	0.02	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.0012 U
1,2-Dichloroethene, Total	-	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.0012 U
1,2-Dichloropropane	-	0.0023 U	0.0024 U	0.0043 U	0.0019 U	0.002 U	0.0019 U	0.0042 U	0.0042 U
1,3,5-Trimethylbenzene	8.4	0.0033 U	0.0034 U	0.0062 U	0.0027 U	0.0029 U	0.0027 U	0.006 U	0.006 U
1,3-Dichlorobenzene	2.4	0.0033 U	0.0034 U	0.0062 U	0.0027 U	0.0029 U	0.0027 U	0.006 U	0.006 U
1,3-Dichloropropane	-	0.0033 U	0.0034 U	0.0062 U	0.0027 U	0.0029 U	0.0027 U	0.006 U	0.006 U
1,3-Dichloropropene, Total	-	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.0012 U
1,4-Dichlorobenzene	1.8	0.0033 U	0.0034 U	0.0062 U	0.0027 U	0.0029 U	0.0027 U	0.006 U	0.006 U
1,4-Dioxane	0.1	0.027 U	0.027 U	0.05 U	0.022 U	0.023 U	0.022 U	0.048 U	0.048 U
2,2-Dichloropropane	-	0.0033 U	0.0034 U	0.0062 U	0.0027 U	0.0029 U	0.0027 U	0.006 U	0.006 U
2-Butanone	0.12	0.0066 U	0.00071 J	0.012 U	0.0054 U	0.0058 U	0.0054 U	0.012 U	0.012 U
2-Hexanone	-	0.0066 U	0.0068 U	0.012 U	0.0054 U	0.0058 U	0.0054 U	0.012 U	0.012 U
4-Methyl-2-pentanone	-	0.0066 U	0.0068 U	0.012 U	0.0054 U	0.0058 U	0.0054 U	0.012 U	0.012 U
Acetone	0.05	0.0016 J	0.0058 J	0.0072 J	0.0054 U	0.0058 U	0.0054 U	0.017	0.0031 J
Acrylonitrile	-	0.0066 U	0.0068 U	0.012 U	0.0054 U	0.0058 U	0.0054 U	0.012 U	0.012 U
Benzene	0.06	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.00045 J	0.0012 U
Bromobenzene	-	0.0033 U	0.0034 U	0.0062 U	0.0027 U	0.0029 U	0.0027 U	0.006 U	0.006 U
Bromochloromethane	-	0.0033 U	0.0034 U	0.0062 U	0.0027 U	0.0029 U	0.0027 U	0.006 U	0.006 U
Bromodichloromethane	-	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.0012 U
Bromoform	-	0.0027 U	0.0027 U	0.005 U	0.0022 U	0.0023 U	0.0022 U	0.0048 U	0.0048 U
Bromomethane	-	0.0013 U	0.0014 U	0.0025 U	0.0011 U	0.0012 U	0.0011 U	0.0024 U	0.0024 U
Carbon disulfide	-	0.0066 U	0.0068 U	0.012 U	0.0054 U	0.0058 U	0.0054 U	0.012 U	0.012 U
Carbon tetrachloride	0.76	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.0012 U
Chlorobenzene	1.1	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.0012 U
Chloroethane	-	0.0013 U	0.0014 U	0.0025 U	0.0011 U	0.0012 U	0.0011 U	0.0024 U	0.0024 U
Chloroform	0.37	0.001 U	0.00033 J	0.0019 U	0.00081 U	0.0009	0.00081 U	0.0018 U	0.00066 J
Chloromethane	-	0.0033 U	0.00054 J	0.0062 U	0.0027 U	0.0029 U	0.0027 U	0.006 U	0.006 U
cis-1,2-Dichloroethene	0.25	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.0012 U
cis-1,3-Dichloropropene	-	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.0012 U
Dibromochloromethane	-	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.0012 U
Dibromomethane	-	0.0066 U	0.0068 U	0.012 U	0.0054 U	0.0058 U	0.0054 U	0.012 U	0.012 U
Dichlorodifluoromethane	-	0.0066 U	0.0068 U	0.012 U	0.0054 U	0.0058 U	0.0054 U	0.012 U	0.012 U
Ethyl ether	-	0.0033 U	0.0034 U	0.0062 U	0.0027 U	0.0029 U	0.0027 U	0.006 U	0.006 U
Ethylbenzene	1	0.00012 J	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.00033 J
Hexachlorobutadiene	-	0.0033 U	0.0034 U	0.0062 U	0.0027 U	0.0029 U	0.0027 U	0.006 U	0.006 U
Isopropylbenzene	-	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.0012 U
Methyl tert butyl ether	0.93	0.0013 U	0.0014 U	0.0025 U	0.0011 U	0.0012 U	0.0011 U	0.0024 U	0.0024 U
Methylene chloride	0.05	0.0066 U	0.0068 U	0.012 U	0.0054 U	0.0058 U	0.0054 U	0.012 U	0.012 U
n-Butylbenzene	12	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.0012 U
n-Propylbenzene	3.9	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.0012 U
Naphthalene	12	0.00025 J	0.0058	0.0062 U	0.0027 U	0.00052 J	0.00047 J	0.006 U	0.006 U
o-Chlorotoluene	-	0.0033 U	0.0034 U	0.0062 U	0.0027 U	0.0029 U	0.0027 U	0.006 U	0.006 U
o-Xylene	total xylene	0.0013 U	0.0014 U	0.0025 U	0.0011 U	0.0012 U	0.0011 U	0.0024 U	0.00067 J
p-Chlorotoluene	-	0.0033 U	0.0034 U	0.0062 U	0.0027 U	0.0029 U	0.0027 U	0.006 U	0.006 U
p-Diethylbenzene	-	0.0027 U	0.0027 U	0.005 U	0.0022 U	0.0023 U	0.0022 U	0.0048 U	0.0048 U
p-Ethyltoluene	-	0.0027 U	0.0027 U	0.005 U	0.0022 U	0.0023 U	0.0022 U	0.0048 U	0.0048 U
p-Isopropyltoluene	-	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.0012 U
p/m-Xylene	total xylene	0.00026 J	0.0014 U	0.0025 U	0.0011 U	0.0012 U	0.0011 U	0.00059 J	0.0017 J
sec-Butylbenzene	11	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.0012 U
Styrene	-	0.0013 U	0.0014 U	0.0025 U	0.0011 U	0.0012 U	0.0011 U	0.0024 U	0.0024 U
tert-Butylbenzene	5.9	0.0033 U	0.0034 U	0.0062 U	0.0027 U	0.0029 U	0.0027 U	0.006 U	0.006 U
Tetrachloroethene	1.3	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.0012 U
Toluene	0.7	0.00023 J	0.001 U	0.00031 J	0.00081 U	0.00086 U	0.00081 U	0.00073 J	0.002
trans-1,2-Dichloroethene	0.19	0.001 U	0.001 U	0.0019 U	0.00081 U	0.00086 U	0.00081 U	0.0018 U	0.0018 U
trans-1,3-Dichloropropene	-	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.0012 U
trans-1,4-Dichloro-2-butene	-	0.0033 U	0.0034 U	0.0062 U	0.0027 U	0.0029 U	0.0027 U	0.006 U	0.006 U
Trichloroethene	0.47	0.00066 U	0.00068 U	0.0012 U	0.00054 U	0.00058 U	0.00054 U	0.0012 U	0.0012 U
Trichlorofluoromethane	-	0.0033 U	0.0034 U	0.0062 U	0.0027 U	0.0029 U	0.0027 U	0.006 U	0.006 U
Vinyl acetate	-	0.0066 U	0.0068 U	0.012 U	0.0054 U	0.0058 U	0.0054 U	0.012 U	0.012 U
Vinyl chloride	0.02	0.0013 U	0.0014 U	0.0025 U	0.0011 U	0.0012 U	0.0011 U	0.0024 U	0.0024 U
Xylenes, Total	1.6	0.00026 J	0.0014 U	0.0025 U	0.0011 U	0.0012 U	0.0011 U	0.00059 J	0.0024 J

Notes:
1. The Site-Specific Track 4 Soil Cleanup Objectives (SCOs) are the lower of 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 Restricted Use Restricted-Residential or Protection of Groundwater SCOs for VOCs, PCBs, pesticides, herbicides, and metals, except for the metals listed below.
*1-a. Criteria for the metals arsenic, cadmium, copper, lead, and mercury are site-specific values approved in the Interim Remedial Measure Work Plan (IRMWP).
2. For SVOCs, Site-Specific Track 4 SCOs are Restricted-Residential Use SCOs.
3. VOC = volatile organic compound
4. SVOC = semivolatile organic compound
5. PCB = polychlorinated biphenyl
6. mg/kg = milligram per kilogram
7. feet bgs = feet below grade surface

Qualifiers:
J = Compound was detected at or above the method detection limit but below the reporting limit; therefore data is estimated.
U = Compound was analyzed for, but was not detected at a level greater than or equal to the reporting limit (value shown).
P = The relative percent difference (RPD) between the results for the two chromatograph columns exceeds the method-specified criteria.
I = The lower value for the two columns was reported due to obvious interference.

Table 6
Documentation Soil Sample Results Summary
Construction Completion Report
450 Union Street, Brooklyn, New York
Langan Project No. 170301202
BCP Site No. C224219

SAMPLE ID SAMPLING DATE LAB SAMPLE ID SAMPLE DEPTH (feet bgs)	Track 4 Site Specific Soil Cleanup Objectives	DS01_1-2 4/5/2017 L1710511-01 1 to 2		DS02_1-2 4/5/2017 L1710511-02 1 to 2		DS03_1-2 4/6/2017 L1710724-01 1 to 2		DS04_3-4 4/10/2017 L1711107-01 3 to 4		DS05_3-4 4/10/2017 L1711107-02 3 to 4		DS06_3-4 4/10/2017 L1711107-03 3 to 4		DS07_3-4 4/28/2017 L1713623-01 3 to 4		DS08_1-2 4/28/2017 L1713623-02 1 to 2	
SVOCs (mg/kg)																	
1,2,4,5-Tetrachlorobenzene	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
1,2,4-Trichlorobenzene	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
1,2-Dichlorobenzene	100	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
1,3-Dichlorobenzene	49	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
1,4-Dichlorobenzene	13	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
2,4,5-Trichlorophenol	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
2,4,6-Trichlorophenol	~	0.13	U	0.13	U	0.15	U	0.13	U	0.12	U	0.11	U	0.13	U	0.12	U
2,4-Dichlorophenol	~	0.19	U	0.19	U	0.23	U	0.2	U	0.18	U	0.16	U	0.2	U	0.19	U
2,4-Dimethylphenol	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
2,4-Dinitrophenol	~	1	U	1	U	1.2	U	1	U	0.95	U	0.86	U	1	U	1	U
2,4-Dinitrotoluene	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
2,6-Dinitrotoluene	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
2-Chloronaphthalene	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
2-Chlorophenol	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
2-Methylnaphthalene	~	0.13	J	0.076	J	0.036	J	0.26	U	0.028	J	0.29		0.06	J	0.25	U
2-Methylphenol	100	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
2-Nitroaniline	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
2-Nitrophenol	~	0.46	U	0.46	U	0.55	U	0.47	U	0.43	U	0.38	U	0.47	U	0.45	U
3,3'-Dichlorobenzidine	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
3-Methylphenol/4-Methylphenol	0.33	0.034	J	0.3	U	0.37	U	0.31	U	0.28	U	0.26	U	0.31	U	0.3	U
3-Nitroaniline	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
4,6-Dinitro-o-cresol	~	0.55	U	0.55	U	0.66	U	0.57	U	0.51	U	0.46	U	0.56	U	0.54	U
4-Bromophenyl phenyl ether	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
4-Chloroaniline	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
4-Chlorophenyl phenyl ether	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
4-Nitroaniline	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
4-Nitrophenol	~	0.3	U	0.3	U	0.36	U	0.31	U	0.28	U	0.25	U	0.3	U	0.29	U
Acenaphthene	100	0.57		0.32		0.13	J	0.038	J	0.086	J	1.1		0.13	J	0.031	J
Acenaphthylene	100	0.38		0.19		0.1	J	0.17	U	0.043	J	0.38		0.19		0.032	J
Acetophenone	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
Anthracene	100	1.9		0.95		0.36		0.066	J	0.3		2.7		0.51		0.12	
Benzo(a)anthracene	1	**5.2**		**3**		**1.3**		0.34		0.58		**4.8**		**2.4**		0.49	
Benzo(a)pyrene	1	**4.9**		**2.9**		**1.3**		0.32		0.53		**3.7**		**1.9**		0.44	
Benzo(b)fluoranthene	1	**6.1**		**3.7**		**1.9**		0.37		0.66		**4.8**		**2.5**		0.57	
Benzo(ghi)perylene	100	3		1.8		0.87		0.15	J	0.25		1.9		1.2		0.3	
Benzo(k)fluoranthene	3.9	2		1.2		0.67		0.14		0.22		1.6		0.86		0.21	
Benzoic Acid	~	0.68	U	0.68	U	0.83	U	0.71	U	0.64	U	0.58	U	0.7	U	0.67	U
Benzyl Alcohol	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
Biphenyl	~	0.056	J	0.48	U	0.58	U	0.5	U	0.45	U	0.12	J	0.5	U	0.47	U
Bis(2-chloroethoxy)methane	~	0.23	U	0.23	U	0.28	U	0.24	U	0.21	U	0.19	U	0.23	U	0.22	U
Bis(2-chloroethyl)ether	~	0.19	U	0.19	U	0.23	U	0.2	U	0.18	U	0.16	U	0.2	U	0.19	U
Bis(2-chloroisopropyl)ether	~	0.25	U	0.25	U	0.31	U	0.26	U	0.24	U	0.21	U	0.26	U	0.25	U
Bis(2-ethylhexyl)phthalate	~	0.21	U	0.21	U	0.6		0.22	U	0.2	U	0.18	U	0.17	J	0.21	U
Butyl benzyl phthalate	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
Carbazole	~	0.7		0.41		0.3		0.22	U	0.11	J	0.72		0.21	J	0.051	J
Chrysene	3.9	**4.8**		3.1		1.4		0.38		0.56		**4.6**		2.4		0.5	
Di-n-butylphthalate	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
Di-n-octylphthalate	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
Dibenzo(a,h)anthracene	0.33	**0.72**		**0.47**		0.22		0.049	J	0.072	J	**0.54**		**0.34**		0.078	J
Dibenzofuran	59	0.42		0.2	J	0.085	J	0.22	U	0.068	J	0.55		0.087	J	0.02	J
Diethyl phthalate	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
Dimethyl phthalate	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
Fluoranthene	100	14		7.1		2.7		0.54		1.3		8.9		4.4		0.88	
Fluorene	100	0.62		0.32		0.13	J	0.033	J	0.094	J	1.2		0.12	J	0.036	J
Hexachlorobenzene	1.2	0.13	U	0.13	U	0.15	U	0.13	U	0.12	U	0.11	U	0.13	U	0.12	U
Hexachlorobutadiene	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
Hexachlorocyclopentadiene	~	0.6	U	0.6	U	0.73	U	0.62	U	0.57	U	0.51	U	0.62	U	0.6	U
Hexachloroethane	~	0.17	U	0.17	U	0.2	U	0.17	U	0.16	U	0.14	U	0.17	U	0.17	U
Indeno(1,2,3-cd)pyrene	0.5	**3.3**		**1.9**		**0.9**		0.17		0.3		**2.1**		**1.4**		0.32	
Isophorone	~	0.19	U	0.19	U	0.23	U	0.2	U	0.18	U	0.16	U	0.2	U	0.19	U
n-Nitrosodi-n-propylamine	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
Naphthalene	100	0.21		0.13	J	0.093	J	0.22	U	0.059	J	0.23		0.11	J	0.038	J
NDPA/DPA	~	0.17	U	0.17	U	0.2	U	0.17	U	0.16	U	0.14	U	0.17	U	0.17	U
Nitrobenzene	~	0.19	U	0.19	U	0.23	U	0.2	U	0.18	U	0.16	U	0.2	U	0.19	U
p-Chloro-m-cresol	~	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
Pentachlorophenol	6.7	0.17	U	0.17	U	0.2	U	0.17	U	0.16	U	0.14	U	0.17	U	0.17	U
Phenanthrene	100	10		4.9		1.7		0.56		1.1		9.3		2.3		0.44	
Phenol	100	0.21	U	0.21	U	0.26	U	0.22	U	0.2	U	0.18	U	0.22	U	0.21	U
Pyrene	100	12		6.3		2.2		0.69		1.1		7.7		4.1		0.84	

Notes:
1. The Site-Specific Track 4 Soil Cleanup Objectives (SCOs) are the lower of 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 Restricted Use Restricted-Residential or Protection of Groundwater SCOs for VOCs, PCBs, pesticides, herbicides, and metals, except for the metals listed below.
*1-a. Criteria for the metals arsenic, cadmium, copper, lead, and mercury are site-specific values approved in the Interim Remedial Measure Work Plan (IRMWP).
2. For SVOCs, Site-Specific Track 4 SCOs are Restricted-Residential Use SCOs.
3. VOC = volatile organic compound
4. SVOC = semivolatile organic compound
5. PCB = polychlorinated biphenyl
6. mg/kg = milligram per kilogram
7. feet bgs = feet below grade surface

Qualifiers:
J = Compound was detected at or above the method detection limit but below the reporting limit; therefore data is estimated.
U = Compound was analyzed for, but was not detected at a level greater than or equal to the reporting limit (value shown).
P = The relative percent difference (RPD) between the results for the two chromatograph columns exceeds the method-specified criteria.
I = The lower value for the two columns was reported due to obvious interference.

Table 6
Documentation Soil Sample Results Summary
Construction Completion Report
450 Union Street, Brooklyn, New York
Langan Project No. 170301202
BCP Site No. C224219

SAMPLE ID SAMPLING DATE LAB SAMPLE ID SAMPLE DEPTH (feet bgs)	Track 4 Site Specific Soil Cleanup Objectives	DS01_1-2 4/5/2017 L1710511-01 1 to 2		DS02_1-2 4/5/2017 L1710511-02 1 to 2		DS03_1-2 4/6/2017 L1710724-01 1 to 2		DS04_3-4 4/10/2017 L1711107-01 3 to 4		DS05_3-4 4/10/2017 L1711107-02 3 to 4		DS06_3-4 4/10/2017 L1711107-03 3 to 4		DS07_3-4 4/28/2017 L1713623-01 3 to 4		DS08_1-2 4/28/2017 L1713623-02 1 to 2	
Herbicides (mg/kg)																	
2,4,5-T	-	0.213	U	0.211	U	0.259	U	0.222	U	0.195	U	0.18	U	0.215	U	0.209	U
2,4,5-TP (Silvex)	3.8	0.213	U	0.211	U	0.259	U	0.222	U	0.195	U	0.18	U	0.215	U	0.209	U
2,4-D	-	0.213	U	0.211	U	0.259	U	0.222	U	0.195	U	0.18	U	0.215	U	0.209	U
Pesticides (mg/kg)																	
4,4'-DDD	13	0.00203	U	0.00192	U	0.00246	U	0.00208	U	0.00185	U	0.0017	U	0.00114	JPI	0.00335	P
4,4'-DDE	8.9	0.00203	U	0.0031		0.00814		0.00208	U	0.00185	U	0.0017	U	0.00202	U	0.00324	P
4,4'-DDT	7.9	0.00381	U	0.00361	U	0.00292	J	0.0039	U	0.00346	U	0.0032	U	0.00379	U	0.00664	
Aldrin	0.097	0.00203	U	0.00192	U	0.00246	U	0.00208	U	0.00185	U	0.0017	U	0.00202	U	0.00354	
Alpha-BHC	0.02	0.000847	U	0.000802	U	0.00102	U	0.000867	U	0.00077	U	0.00071	U	0.000842	U	0.000808	U
Beta-BHC	0.09	0.00203	U	0.00192	U	0.00246	U	0.00208	U	0.00185	U	0.0017	U	0.00202	U	0.00194	U
Chlordane	-	0.0165	U	0.0156	U	0.165		0.0169	U	0.015	U	0.0138	U	0.0164	U	0.0872	
cis-Chlordane	2.9	0.00254	U	0.00241	U	0.0313	P	0.0026	U	0.00231	U	0.00213	U	0.000806	J	0.0115	
Delta-BHC	0.25	0.00203	U	0.00192	U	0.00246	U	0.00208	U	0.00185	U	0.0017	U	0.00202	U	0.00194	U
Dieldrin	0.1	0.00127	U	0.0012	U	0.0098	PI	0.0013	U	0.00116	U	0.00106	U	0.00126	U	0.0133	
Endosulfan I	24	0.00203	U	0.00192	U	0.00246	U	0.00208	U	0.00185	U	0.0017	U	0.00202	U	0.00194	U
Endosulfan II	24	0.00203	U	0.00192	U	0.00246	U	0.00208	U	0.00185	U	0.0017	U	0.00202	U	0.00194	U
Endosulfan sulfate	24	0.000847	U	0.000802	U	0.00102	U	0.000867	U	0.00077	U	0.00071	U	0.000842	U	0.000808	U
Endrin	0.06	0.00377	P	0.0115		0.00102	U	0.000867	U	0.00077	U	0.00071	U	0.00347	PI	0.000808	U
Endrin aldehyde	-	0.00254	U	0.00241	U	0.00307	U	0.0026	U	0.00231	U	0.00213	U	0.00252	U	0.00242	U
Endrin ketone	-	0.00203	U	0.00192	U	0.00246	U	0.00208	U	0.00185	U	0.0017	U	0.0169	P	0.00194	U
Heptachlor	0.38	0.00102	U	0.000963	U	0.00123	U	0.00104	U	0.000924	U	0.000852	U	0.00101	U	0.000969	U
Heptachlor epoxide	-	0.00381	U	0.00361	U	0.00461	U	0.0039	U	0.00346	U	0.0032	U	0.00126	J	0.00269	J
Lindane	0.1	0.000847	U	0.000802	U	0.00102	U	0.000867	U	0.00077	U	0.00071	U	0.000842	U	0.000808	U
Methoxychlor	-	0.00381	U	0.00361	U	0.00461	U	0.0039	U	0.00346	U	0.0032	U	0.0207	PI	0.00364	U
Toxaphene	-	0.0381	U	0.0361	U	0.0461	U	0.039	U	0.0346	U	0.032	U	0.0379	U	0.0364	U
trans-Chlordane	-	0.00254	U	0.00241	U	0.0121	PI	0.000916	JPI	0.00382	P	0.00213	U	0.00221	JPI	0.00792	PI
PCBs (mg/kg)																	
Aroclor 1016	-	0.041	U	0.0419	U	0.0492	U	0.0436	U	0.0389	U	0.0362	U	0.0419	U	0.041	U
Aroclor 1221	-	0.041	U	0.0419	U	0.0492	U	0.0436	U	0.0389	U	0.0362	U	0.0419	U	0.041	U
Aroclor 1232	-	0.041	U	0.0419	U	0.0492	U	0.0436	U	0.0389	U	0.0362	U	0.0419	U	0.041	U
Aroclor 1242	-	0.041	U	0.0419	U	0.0492	U	0.0436	U	0.0389	U	0.0362	U	0.0419	U	0.041	U
Aroclor 1248	-	0.041	U	0.0419	U	0.0492	U	0.0436	U	0.0389	U	0.0362	U	0.0419	U	0.041	U
Aroclor 1254	-	0.041	U	0.0419	U	0.0492	U	0.0436	U	0.0389	U	0.0362	U	0.0419	U	0.0232	J
Aroclor 1260	-	0.041	U	0.00848	J	0.0492	U	0.0436	U	0.0389	U	0.0362	U	0.0419	U	0.016	J
Aroclor 1262	-	0.041	U	0.0419	U	0.0492	U	0.0436	U	0.0389	U	0.0362	U	0.0419	U	0.041	U
Aroclor 1268	-	0.041	U	0.0419	U	0.0492	U	0.0436	U	0.0389	U	0.0362	U	0.0419	U	0.041	U
PCBs, Total	1	0.041	U	0.00848	J	0.0492	U	0.0436	U	0.0389	U	0.0362	U	0.0419	U	0.0392	J
Total Metals (mg/kg)																	
Aluminum, Total	-	4600		5600		4900		3200		4600		5100		4700		3000	
Antimony, Total	-	6.6		1.7	J	0.46	J	7.1		4.7	U	3.1	J	3.6	J	5.1	U
Arsenic, Total	16*	7.9		7.6		4.1		**19**		4.3		7.7		14		2.5	
Barium, Total	400	88		65		63		31		31		67		79		28	
Beryllium, Total	47	0.26	J	0.28	J	0.19	J	0.36	J	0.21	J	0.31	J	0.26	J	0.08	J
Cadmium, Total	9.3*	0.86	J	2.3		0.31	J	0.38	J	0.28	J	2.2		0.93	J	0.2	J
Calcium, Total	-	9400		8600		9200		2000		1600		2200		6500		9700	
Chromium, Total	-	13		12		16		37		9		12		16		6.6	
Chromium, Hexavalent	19	0.22	J	0.28	J	1.2	U	1.9		0.36	J	0.88	U	0.91	J	0.74	J
Chromium, Trivalent	180	13	J	12	J	16		35		8.6	J	12		15	J	5.9	J
Cobalt, Total	-	4.4		5.2		4.3		9.1		4.6		5		7.7		2.4	
Copper, Total	1720*	150		1000		440		140		89		300		500		72	
Cyanide, Total	27	1.2	U	0.5	J	0.82	J	0.23	J	1.1	U	1.1	U	1.2	U	2.4	U
Iron, Total	-	11000		14000		9600		41000		10000		11000		45000		5100	
Lead, Total	1000*	270		220		50		200		66		140		410		32	
Magnesium, Total	-	1900		1800		2200		1100		2200		2100		1600		3200	
Manganese, Total	2000	220		200		230		370		200		200		450		120	
Mercury, Total	2.8*	**3.6**		0.44		0.1		**190**		**7.2**		0.62		1.3		0.18	
Nickel, Total	130	36		24		14		26		23		18		24		7	
Potassium, Total	-	1100		790		820		1400		540		1000		820		460	
Selenium, Total	4	2	U	2	U	2.4	U	2.1	U	1.9	U	1.7	U	2.1	U	2	U
Silver, Total	8.3	1	U	0.98	U	1.2	U	1	U	0.94	U	0.87	U	1	U	1	U
Sodium, Total	-	120	J	98	J	72	J	270		70	J	84	J	150	J	100	J
Thallium, Total	-	2	U	2	U	2.4	U	2.1	U	1.9	U	1.7	U	2.1	U	2	U
Vanadium, Total	-	14		14		20		48		13		18		22		8.7	
Zinc, Total	2480	370		660		180		100		240		680		510		61	
General Chemistry																	
Solids, Total (%)	-	77.4		78.3		63.9		74		83.3		90.5		76		78.7	

Notes:
1. The Site-Specific Track 4 Soil Cleanup Objectives (SCOs) are the lower of 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 Restricted Use Restricted-Residential or Protection of Groundwater SCOs for VOCs, PCBs, pesticides, herbicides, and metals, except for the metals listed below.
*1-a. Criteria for the metals arsenic, cadmium, copper, lead, and mercury are site-specific values approved in the Interim Remedial Measure Work Plan (IRMWP).
2. For SVOCs, Site-Specific Track 4 SCOs are Restricted-Residential Use SCOs.
3. VOC = volatile organic compound
4. SVOC = semivolatile organic compound
5. PCB = polychlorinated biphenyl
6. mg/kg = milligram per kilogram
7. feet bgs = feet below grade surface

Qualifiers:
J = Compound was detected at or above the method detection limit but below the reporting limit; therefore data is estimated.
U = Compound was analyzed for, but was not detected at a level greater than or equal to the reporting limit (value shown).
P = The relative percent difference (RPD) between the results for the two chromatograph columns exceeds the method-specified criteria.
I = The lower value for the two columns was reported due to obvious interference.

Table 7
Soil Import Summary
Construction Completion Report
450 Union Street, Brooklyn, NY
Langan Project No. 170301202
BCP Site No. C224219

Load No.	Daily Load No.	Date	Truck Company	State	Truck License	Material Type	Ticket No.	Confirmed/Estimated Quantity (tons)	Facility
1	1	3/2/2017	Brookside Environmental	NY	-	RCA	25108273	20	NYC Concrete Materials
2	1	4/6/2017	Brookside Environmental	NY	61428MG	RCA	25110332	20	NYC Concrete Materials
3	2	4/6/2017	Brookside Environmental	NY	61428MG	RCA	25110337	20	NYC Concrete Materials
4	3	4/6/2017	Brookside Environmental	NY	61428MG	RCA	25110348	20	NYC Concrete Materials
5	1	4/10/2017	Brookside Environmental	NY	61428MG	#57 Clean Stone	53020409	20.16	New York Sand & Stone
6	1	4/12/2017	Brookside Environmental	NY	79842JR	#57 Clean Stone	53020556	5.44	New York Sand & Stone
7	2	4/28/2017	Brookside Environmental	NY	79842JR	#57 Clean Stone	53021587	9.08	New York Sand & Stone
8	1	5/3/2017	Brookside Environmental	NY	61428MG	#57 Clean Stone	53021796	8.42	New York Sand & Stone
9	2	5/3/2017	Brookside Environmental	NY	-	Commercial Top Soil	1024517	1.11	Brissett Nursery
10	3	5/3/2017	Brookside Environmental	NY	-	Commercial Top Soil	32228	0.50	Lowe's Home Improvement

APPENDIX A

NYSDEC IRM AND SITE SPECIFIC SCO APPROVALS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4995
www.dec.ny.gov

February 16, 2017

Robert Rieger
450 Union LLC
c/o Pilot Real Estate Group LLC
10 Glenville Street, Fl 1
Greenwich, CT 06831

Re: 450 Union Street Site
Brownfield Cleanup Program Site No. C224219
Interim Remedial Measure Work Plan

Dear Mr. Rieger,

The New York State Department of Environmental Conservation (the Department), in consultation with the New York State Department of Health (NYSDOH), has reviewed the Interim Remedial Measure Work Plan (IRMWP) dated February 16, 2017 for the above-referenced site. The IRMWP was prepared by Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. on behalf of 450 Union, LLC (the Volunteer). The IRMWP is deemed to be appropriate and protective of the environment and public health, and is hereby approved. As required by the Citizen Participation Plan, please ensure that a copy of the approved IRMWP is placed with all document repositories. All draft versions should be removed.

The Volunteer and its contractors are solely responsible for safe execution of all invasive and other work performed under the IRMWP. In particular, the Volunteer and its contractor are responsible for the structural integrity of excavations, and protection of the structural integrity of buildings, utilities, and other structures both onsite and offsite that may be adversely affected by those excavations. The Volunteer and its contractors must obtain any local, state or federal permits or approvals that may be required to perform work under the Plan. Furthermore, the Volunteer and its contractors are solely responsible for the identification of utilities that might be affected by work under the IRMWP and implementation of all required, appropriate, or necessary health and safety measures during performance of work under the approved IRMWP.

If you have any questions or comments, please feel free to contact Nigel Crawford at (718) 482-7778.

Sincerely,

Jane H. O'Connell
Chief, Superfund & Brownfield Cleanup Section

ec: Gerard Burke, Nigel Crawford, John Nehila – NYSDEC
Justin Deming, Angela Martin – NYSDOH
Justin O'Leary, Chris Geletka – Pilot Real Estate Group LLC
Jason Hayes, Mimi Raygorodetsky, Nicole Rice, Albert Tashji – Langan
David Yudelson – Sive, Paget & Riesel, PC

Albert Tashji

From: Crawford, Nigel (DEC) <nigel.crawford@dec.ny.gov>
Sent: Friday, March 24, 2017 10:15 AM
To: Nicole Rice
Cc: Albert Tashji; Martin, Angela L (HEALTH); Mimi Raygorodetsky; O'Connell, Jane H (DEC)
Subject: RE: 450 Union Street - SCOs for IRM

Nicole: We agree. Nigel

Nigel N. Crawford, P.E.
Environmental Engineer 2,
Division of Environmental Remediation

New York State Department of Environmental Conservation
NYSDEC Region 2
47-40 21st Street, LIC New York 11101
P: (718) 482-7778 | F: (718) 482-6358
nigel.crawford@dec.ny.gov
www.dec.ny.gov

From: Nicole Rice [mailto:NRice@Langan.com]
Sent: Thursday, March 23, 2017 4:29 PM
To: Crawford, Nigel (DEC) <nigel.crawford@dec.ny.gov>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Cc: Albert Tashji <ATashji@Langan.com>; Mimi Raygorodetsky <mraygorodetsky@langan.com>
Subject: 450 Union Street - SCOs for IRM

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Nigel/Jane – As discussed during the preconstruction meeting held on 15 February 2017, Langan collected non-filtered and field-filtered groundwater samples from wells around the tank area (MW14, MW15, MW16, and MW17) for analysis of SVOC. As reported in Progress Report No. 13, no SVOCs were detected in filtered samples, with the exception of acenaphthene, which was detected in one filtered sample (MW17) at a concentration below its SGV. The results indicate that SVOCs, with the exception of acenaphthene, are not dissolved in groundwater. A summary of groundwater sample results is attached as Table 2. Based on the filtered and unfiltered groundwater sample results Site-Specific Track 4 SCOs will be Restricted-Residential for SVOCs.

Please confirm that you agree. We plan to mobilize to the site next week to remove the tank. We will send daily updates of site activities.

Call with any questions.

Thanks,

Nicole Rice, PE
Project Engineer
Direct: 212.479.5491
Mobile: 724.601.2196
File Sharing Link

LANGAN
Phone: 212.479.5400 Fax: 212.479.5444
21 Penn Plaza
360 West 31st Street, 8th Floor
New York, NY 10001-2727
www.langan.com

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Albert Tashji

From: O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Sent: Wednesday, May 03, 2017 4:46 PM
To: Albert Tashji; Mimi Raygorodetsky
Cc: Crawford, Nigel (DEC)
Subject: RE: 450 Union Topsoil

OK with us as long as your PE will certify.

Jane H. O'Connell
Chief, Superfund and Brownfield Cleanup Section, Division of Environmental Remediation

New York State Department of Environmental Conservation
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4599 | F: (718) 482-6358 | M: (917) 817-1845 | jane.oconnell@dec.ny.gov
www.dec.ny.gov | | |

From: Albert Tashji [mailto:ATashji@Langan.com]
Sent: Tuesday, May 02, 2017 5:43 PM
To: Crawford, Nigel (DEC) <nigel.crawford@dec.ny.gov>
Subject: 450 Union Topsoil

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Nigel – the Volunteers are coming down to the wire with finding compliant topsoil from a facility. They need about 1/8 of a cubic yard, roughly 4 bags of commercial topsoil for their opening this Friday. This is the brand we're looking into. Can you let me know your thoughts?

http://fafard.com/products/?id=197

Thanks,

Albert Tashji, P.E., LEED GA
Senior Staff Engineer
Direct: 212.479.5508
Mobile: 551.404.5597
File Sharing Link

LANGAN
Phone: 212.479.5400 Fax: 212.479.5444
21 Penn Plaza
360 West 31st Street, 8th Floor
New York, NY 10001-2727
www.langan.com

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APPENDIX B

WASTE CHARACTERIZATION SAMPLE LABORATORY REPORTS

ANALYTICAL REPORT

Lab Number:	L1702181
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Nicole Rice
Phone:	(212) 479-5400
Project Name:	450 UNION STREET
Project Number:	170301202
Report Date:	01/30/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1702181-01	WC03_GRAB_2-3	SOIL	BROOKLYN, NY	01/23/17 10:25	01/23/17
L1702181-02	WC_COMP_B_0-6	SOIL	BROOKLYN, NY	01/23/17 11:35	01/23/17
L1702181-03	WC_COMP_B_6-12	SOIL	BROOKLYN, NY	01/23/17 11:45	01/23/17
L1702181-04	WC04_GRAB_11-12	SOIL	BROOKLYN, NY	01/23/17 11:30	01/23/17
L1702181-05	WC_COMP_A_0-4	SOIL	BROOKLYN, NY	01/23/17 12:45	01/23/17
L1702181-06	WC01_GRAB_2-3	SOIL	BROOKLYN, NY	01/23/17 12:30	01/23/17
L1702181-07	TB01_012317	WATER	BROOKLYN, NY	01/23/17 00:00	01/23/17

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	450 UNION STREET	**Lab Number:**	L1702181
Project Number:	170301202	**Report Date:**	01/30/17

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.

Pesticides

L1702181-03: The sample has elevated detection limits due to the dilution required by the sample matrix.

Metals

L1702181-02, -03, and -05: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

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: 01/30/17

ORGANICS

VOLATILES

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-01
Client ID: WC03_GRAB_2-3
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 01/27/17 15:30
Analyst: MAB
Percent Solids: 81%

Date Collected: 01/23/17 10:25
Date Received: 01/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	0.57	1
1,1-Dichloroethane	ND		ug/kg	0.77	0.04	1
Chloroform	ND		ug/kg	0.77	0.19	1
Carbon tetrachloride	ND		ug/kg	0.51	0.11	1
1,2-Dichloropropane	ND		ug/kg	1.8	0.12	1
Dibromochloromethane	ND		ug/kg	0.51	0.08	1
1,1,2-Trichloroethane	ND		ug/kg	0.77	0.16	1
Tetrachloroethene	ND		ug/kg	0.51	0.07	1
Chlorobenzene	ND		ug/kg	0.51	0.18	1
Trichlorofluoromethane	ND		ug/kg	2.6	0.20	1
1,2-Dichloroethane	ND		ug/kg	0.51	0.06	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.06	1
Bromodichloromethane	ND		ug/kg	0.51	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.51	0.06	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.06	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	0.06	1
1,1-Dichloropropene	ND		ug/kg	2.6	0.07	1
Bromoform	ND		ug/kg	2.0	0.12	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.05	1
Benzene	ND		ug/kg	0.51	0.06	1
Toluene	ND		ug/kg	0.77	0.10	1
Ethylbenzene	ND		ug/kg	0.51	0.07	1
Chloromethane	ND		ug/kg	2.6	0.15	1
Bromomethane	ND		ug/kg	1.0	0.17	1
Vinyl chloride	ND		ug/kg	1.0	0.06	1
Chloroethane	ND		ug/kg	1.0	0.16	1
1,1-Dichloroethene	ND		ug/kg	0.51	0.13	1
trans-1,2-Dichloroethene	ND		ug/kg	0.77	0.11	1
Trichloroethene	ND		ug/kg	0.51	0.06	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.08	1

Project Name: 450 UNION STREET **Lab Number:** L1702181

Project Number: 170301202 **Report Date:** 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-01 Date Collected: 01/23/17 10:25

Client ID: WC03_GRAB_2-3 Date Received: 01/23/17

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.07	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.07	1
Methyl tert butyl ether	ND		ug/kg	1.0	0.04	1
p/m-Xylene	ND		ug/kg	1.0	0.18	1
o-Xylene	ND		ug/kg	1.0	0.17	1
Xylenes, Total	ND		ug/kg	1.0	0.17	1
cis-1,2-Dichloroethene	ND		ug/kg	0.51	0.07	1
Dibromomethane	ND		ug/kg	5.1	0.08	1
Styrene	ND		ug/kg	1.0	0.21	1
Dichlorodifluoromethane	ND		ug/kg	5.1	0.10	1
Acetone	0.87	J	ug/kg	5.1	0.53	1
Carbon disulfide	ND		ug/kg	5.1	0.57	1
2-Butanone	ND		ug/kg	5.1	0.14	1
Vinyl acetate	ND		ug/kg	5.1	0.07	1
4-Methyl-2-pentanone	ND		ug/kg	5.1	0.12	1
1,2,3-Trichloropropane	ND		ug/kg	5.1	0.08	1
2-Hexanone	ND		ug/kg	5.1	0.34	1
Bromochloromethane	ND		ug/kg	2.6	0.14	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.12	1
1,2-Dibromoethane	ND		ug/kg	2.0	0.09	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.07	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	0.16	1
Bromobenzene	ND		ug/kg	2.6	0.11	1
n-Butylbenzene	ND		ug/kg	0.51	0.06	1
sec-Butylbenzene	ND		ug/kg	0.51	0.06	1
tert-Butylbenzene	ND		ug/kg	2.6	0.07	1
o-Chlorotoluene	ND		ug/kg	2.6	0.08	1
p-Chlorotoluene	ND		ug/kg	2.6	0.07	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.20	1
Hexachlorobutadiene	ND		ug/kg	2.6	0.12	1
Isopropylbenzene	ND		ug/kg	0.51	0.05	1
p-Isopropyltoluene	ND		ug/kg	0.51	0.06	1
Naphthalene	ND		ug/kg	2.6	0.07	1
Acrylonitrile	ND		ug/kg	5.1	0.26	1
Tert-Butyl Alcohol	ND		ug/kg	31	1.5	1
n-Propylbenzene	ND		ug/kg	0.51	0.06	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.08	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.09	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.07	1

Project Name: 450 UNION STREET **Lab Number:** L1702181

Project Number: 170301202 **Report Date:** 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-01 Date Collected: 01/23/17 10:25

Client ID: WC03_GRAB_2-3 Date Received: 01/23/17

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.07	1
Methyl Acetate	ND		ug/kg	10	0.14	1
Acrolein	ND		ug/kg	13	4.1	1
Cyclohexane	ND		ug/kg	10	0.08	1
1,4-Dioxane	ND		ug/kg	51	7.4	1
Freon-113	ND		ug/kg	10	0.14	1
p-Diethylbenzene	ND		ug/kg	2.0	0.08	1
p-Ethyltoluene	ND		ug/kg	2.0	0.06	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.07	1
Ethyl ether	ND		ug/kg	2.6	0.13	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	2.6	0.20	1
Methyl cyclohexane	ND		ug/kg	2.0	0.08	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	92		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-04
Client ID: WC04_GRAB_11-12
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 01/27/17 03:47
Analyst: MV
Percent Solids: 69%

Date Collected: 01/23/17 11:30
Date Received: 01/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.1	0.78	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.06	1
Chloroform	ND		ug/kg	1.1	0.26	1
Carbon tetrachloride	ND		ug/kg	0.71	0.15	1
1,2-Dichloropropane	ND		ug/kg	2.5	0.16	1
Dibromochloromethane	ND		ug/kg	0.71	0.11	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.22	1
Tetrachloroethene	ND		ug/kg	0.71	0.10	1
Chlorobenzene	ND		ug/kg	0.71	0.25	1
Trichlorofluoromethane	ND		ug/kg	3.5	0.28	1
1,2-Dichloroethane	ND		ug/kg	0.71	0.08	1
1,1,1-Trichloroethane	ND		ug/kg	0.71	0.08	1
Bromodichloromethane	ND		ug/kg	0.71	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	0.71	0.09	1
cis-1,3-Dichloropropene	ND		ug/kg	0.71	0.08	1
1,3-Dichloropropene, Total	ND		ug/kg	0.71	0.08	1
1,1-Dichloropropene	ND		ug/kg	3.5	0.10	1
Bromoform	ND		ug/kg	2.8	0.17	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.71	0.07	1
Benzene	0.13	J	ug/kg	0.71	0.08	1
Toluene	ND		ug/kg	1.1	0.14	1
Ethylbenzene	ND		ug/kg	0.71	0.09	1
Chloromethane	ND		ug/kg	3.5	0.21	1
Bromomethane	ND		ug/kg	1.4	0.24	1
Vinyl chloride	ND		ug/kg	1.4	0.08	1
Chloroethane	ND		ug/kg	1.4	0.22	1
1,1-Dichloroethene	ND		ug/kg	0.71	0.18	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	0.15	1
Trichloroethene	ND		ug/kg	0.71	0.09	1
1,2-Dichlorobenzene	ND		ug/kg	3.5	0.11	1

Project Name: 450 UNION STREET **Lab Number:** L1702181

Project Number: 170301202 **Report Date:** 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-04 Date Collected: 01/23/17 11:30

Client ID: WC04_GRAB_11-12 Date Received: 01/23/17

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.5	0.10	1
1,4-Dichlorobenzene	ND		ug/kg	3.5	0.10	1
Methyl tert butyl ether	ND		ug/kg	1.4	0.06	1
p/m-Xylene	ND		ug/kg	1.4	0.25	1
o-Xylene	ND		ug/kg	1.4	0.24	1
Xylenes, Total	ND		ug/kg	1.4	0.24	1
cis-1,2-Dichloroethene	ND		ug/kg	0.71	0.10	1
Dibromomethane	ND		ug/kg	7.1	0.12	1
Styrene	ND		ug/kg	1.4	0.28	1
Dichlorodifluoromethane	ND		ug/kg	7.1	0.14	1
Acetone	24		ug/kg	7.1	0.73	1
Carbon disulfide	ND		ug/kg	7.1	0.78	1
2-Butanone	ND		ug/kg	7.1	0.19	1
Vinyl acetate	ND		ug/kg	7.1	0.09	1
4-Methyl-2-pentanone	ND		ug/kg	7.1	0.17	1
1,2,3-Trichloropropane	ND		ug/kg	7.1	0.12	1
2-Hexanone	ND		ug/kg	7.1	0.47	1
Bromochloromethane	ND		ug/kg	3.5	0.20	1
2,2-Dichloropropane	ND		ug/kg	3.5	0.16	1
1,2-Dibromoethane	ND		ug/kg	2.8	0.12	1
1,3-Dichloropropane	ND		ug/kg	3.5	0.10	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.71	0.22	1
Bromobenzene	ND		ug/kg	3.5	0.15	1
n-Butylbenzene	ND		ug/kg	0.71	0.08	1
sec-Butylbenzene	ND		ug/kg	0.71	0.09	1
tert-Butylbenzene	ND		ug/kg	3.5	0.10	1
o-Chlorotoluene	ND		ug/kg	3.5	0.11	1
p-Chlorotoluene	ND		ug/kg	3.5	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	0.28	1
Hexachlorobutadiene	ND		ug/kg	3.5	0.16	1
Isopropylbenzene	ND		ug/kg	0.71	0.07	1
p-Isopropyltoluene	ND		ug/kg	0.71	0.09	1
Naphthalene	ND		ug/kg	3.5	0.10	1
Acrylonitrile	ND		ug/kg	7.1	0.36	1
Tert-Butyl Alcohol	ND		ug/kg	42	2.1	1
n-Propylbenzene	ND		ug/kg	0.71	0.08	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.5	0.10	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.5	0.13	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.5	0.10	1

Project Name: 450 UNION STREET **Lab Number:** L1702181

Project Number: 170301202 **Report Date:** 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-04 Date Collected: 01/23/17 11:30

Client ID: WC04_GRAB_11-12 Date Received: 01/23/17

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	3.5	0.10	1
Methyl Acetate	ND		ug/kg	14	0.19	1
Acrolein	ND		ug/kg	18	5.7	1
Cyclohexane	ND		ug/kg	14	0.10	1
1,4-Dioxane	ND		ug/kg	71	10.	1
Freon-113	ND		ug/kg	14	0.19	1
p-Diethylbenzene	ND		ug/kg	2.8	0.11	1
p-Ethyltoluene	ND		ug/kg	2.8	0.09	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.8	0.09	1
Ethyl ether	ND		ug/kg	3.5	0.18	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	3.5	0.28	1
Methyl cyclohexane	ND		ug/kg	2.8	0.11	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	118		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-06
Client ID: WC01_GRAB_2-3
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 01/26/17 18:17
Analyst: KD
Percent Solids: 89%

Date Collected: 01/23/17 12:30
Date Received: 01/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	110	J	ug/kg	370	41.	1
1,1-Dichloroethane	ND		ug/kg	56	3.2	1
Chloroform	28	J	ug/kg	56	14.	1
Carbon tetrachloride	ND		ug/kg	37	7.8	1
1,2-Dichloropropane	ND		ug/kg	130	8.5	1
Dibromochloromethane	ND		ug/kg	37	5.7	1
1,1,2-Trichloroethane	590		ug/kg	56	11.	1
Tetrachloroethene	ND		ug/kg	37	5.2	1
Chlorobenzene	ND		ug/kg	37	13.	1
Trichlorofluoromethane	ND		ug/kg	190	14.	1
1,2-Dichloroethane	ND		ug/kg	37	4.2	1
1,1,1-Trichloroethane	ND		ug/kg	37	4.1	1
Bromodichloromethane	ND		ug/kg	37	6.4	1
trans-1,3-Dichloropropene	ND		ug/kg	37	4.5	1
cis-1,3-Dichloropropene	ND		ug/kg	37	4.4	1
1,3-Dichloropropene, Total	ND		ug/kg	37	4.4	1
1,1-Dichloropropene	ND		ug/kg	190	5.3	1
Bromoform	ND		ug/kg	150	8.8	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	37	3.8	1
Benzene	ND		ug/kg	37	4.4	1
Toluene	20	J	ug/kg	56	7.3	1
Ethylbenzene	940		ug/kg	37	4.8	1
Chloromethane	ND		ug/kg	190	11.	1
Bromomethane	ND		ug/kg	74	13.	1
Vinyl chloride	ND		ug/kg	74	4.4	1
Chloroethane	ND		ug/kg	74	12.	1
1,1-Dichloroethene	ND		ug/kg	37	9.8	1
trans-1,2-Dichloroethene	ND		ug/kg	56	7.9	1
Trichloroethene	ND		ug/kg	37	4.7	1
1,2-Dichlorobenzene	ND		ug/kg	190	5.7	1

Project Name: 450 UNION STREET **Lab Number:** L1702181

Project Number: 170301202 **Report Date:** 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-06 Date Collected: 01/23/17 12:30

Client ID: WC01_GRAB_2-3 Date Received: 01/23/17

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	190	5.0	1
1,4-Dichlorobenzene	ND		ug/kg	190	5.2	1
Methyl tert butyl ether	ND		ug/kg	74	3.1	1
p/m-Xylene	4300		ug/kg	74	13.	1
o-Xylene	1600		ug/kg	74	13.	1
Xylenes, Total	5900		ug/kg	74	13.	1
cis-1,2-Dichloroethene	ND		ug/kg	37	5.3	1
Dibromomethane	ND		ug/kg	370	6.1	1
Styrene	ND		ug/kg	74	15.	1
Dichlorodifluoromethane	ND		ug/kg	370	7.1	1
Acetone	59	J	ug/kg	370	39.	1
Carbon disulfide	ND		ug/kg	370	41.	1
2-Butanone	ND		ug/kg	370	10.	1
Vinyl acetate	ND		ug/kg	370	4.9	1
4-Methyl-2-pentanone	ND		ug/kg	370	9.1	1
1,2,3-Trichloropropane	ND		ug/kg	370	6.1	1
2-Hexanone	ND		ug/kg	370	25.	1
Bromochloromethane	ND		ug/kg	190	10.	1
2,2-Dichloropropane	ND		ug/kg	190	8.4	1
1,2-Dibromoethane	ND		ug/kg	150	6.5	1
1,3-Dichloropropane	ND		ug/kg	190	5.4	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	37	12.	1
Bromobenzene	ND		ug/kg	190	7.8	1
n-Butylbenzene	ND		ug/kg	37	4.3	1
sec-Butylbenzene	ND		ug/kg	37	4.5	1
tert-Butylbenzene	ND		ug/kg	190	5.0	1
o-Chlorotoluene	ND		ug/kg	190	6.0	1
p-Chlorotoluene	ND		ug/kg	190	5.0	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	190	15.	1
Hexachlorobutadiene	ND		ug/kg	190	8.5	1
Isopropylbenzene	18	J	ug/kg	37	3.9	1
p-Isopropyltoluene	9.9	J	ug/kg	37	4.7	1
Naphthalene	750		ug/kg	190	5.2	1
Acrylonitrile	ND		ug/kg	370	19.	1
Tert-Butyl Alcohol	ND		ug/kg	2200	110	1
n-Propylbenzene	10	J	ug/kg	37	4.1	1
1,2,3-Trichlorobenzene	ND		ug/kg	190	5.5	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	6.8	1
1,3,5-Trimethylbenzene	15	J	ug/kg	190	5.3	1

Project Name: 450 UNION STREET **Lab Number:** L1702181

Project Number: 170301202 **Report Date:** 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-06 Date Collected: 01/23/17 12:30

Client ID: WC01_GRAB_2-3 Date Received: 01/23/17

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	48	J	ug/kg	190	5.3	1
Methyl Acetate	ND		ug/kg	740	10.	1
Acrolein	ND		ug/kg	930	300	1
Cyclohexane	ND		ug/kg	740	5.4	1
1,4-Dioxane	ND		ug/kg	3700	540	1
Freon-113	ND		ug/kg	740	10.	1
p-Diethylbenzene	16	J	ug/kg	150	6.0	1
p-Ethyltoluene	34	J	ug/kg	150	4.6	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	150	4.8	1
Ethyl ether	ND		ug/kg	190	9.7	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	190	15.	1
Methyl cyclohexane	7.3	J	ug/kg	150	5.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	97		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-07
Client ID: TB01_012317
Sample Location: BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/26/17 13:50
Analyst: BD

Date Collected: 01/23/17 00:00
Date Received: 01/23/17
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	0.14	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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 450 UNION STREET **Lab Number:** L1702181

Project Number: 170301202 **Report Date:** 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-07 Date Collected: 01/23/17 00:00

Client ID: TB01_012317 Date Received: 01/23/17

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
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
Tert-Butyl Alcohol	ND		ug/l	10	1.4	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Acrolein	ND		ug/l	5.0	0.44	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

Project Name: 450 UNION STREET **Lab Number:** L1702181

Project Number: 170301202 **Report Date:** 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-07 Date Collected: 01/23/17 00:00

Client ID: TB01_012317 Date Received: 01/23/17

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	99		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/26/17 06:36
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG972937-5					
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
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/26/17 06:36
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG972937-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
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
Tert-Butyl Alcohol	ND		ug/l	10	1.4
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Acrolein	ND		ug/l	5.0	0.44
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

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/26/17 06:36
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG972937-5					
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
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	0.40

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/26/17 06:36
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG972937-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	104		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/26/17 10:21
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06 Batch: WG972980-5					
Methylene chloride	330	J	ug/kg	500	55.
1,1-Dichloroethane	ND		ug/kg	75	4.3
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	10.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	7.7
1,1,2-Trichloroethane	ND		ug/kg	75	15.
Tetrachloroethene	ND		ug/kg	50	7.0
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	19.
1,2-Dichloroethane	ND		ug/kg	50	5.7
1,1,1-Trichloroethane	ND		ug/kg	50	5.5
Bromodichloromethane	ND		ug/kg	50	8.7
trans-1,3-Dichloropropene	ND		ug/kg	50	6.0
cis-1,3-Dichloropropene	ND		ug/kg	50	5.9
1,3-Dichloropropene, Total	ND		ug/kg	50	5.9
1,1-Dichloropropene	ND		ug/kg	250	7.1
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	5.0
Benzene	ND		ug/kg	50	5.9
Toluene	ND		ug/kg	75	9.7
Ethylbenzene	ND		ug/kg	50	6.4
Chloromethane	ND		ug/kg	250	15.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	5.9
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	13.
trans-1,2-Dichloroethene	ND		ug/kg	75	11.
Trichloroethene	ND		ug/kg	50	6.2

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/26/17 10:21
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06 Batch: WG972980-5					
1,2-Dichlorobenzene	ND		ug/kg	250	7.7
1,3-Dichlorobenzene	ND		ug/kg	250	6.8
1,4-Dichlorobenzene	ND		ug/kg	250	6.9
Methyl tert butyl ether	ND		ug/kg	100	4.2
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
Xylenes, Total	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	7.1
Dibromomethane	ND		ug/kg	500	8.2
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	9.5
Acetone	ND		ug/kg	500	52.
Carbon disulfide	ND		ug/kg	500	55.
2-Butanone	ND		ug/kg	500	14.
Vinyl acetate	ND		ug/kg	500	6.6
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	8.1
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	14.
2,2-Dichloropropane	ND		ug/kg	250	11.
1,2-Dibromoethane	ND		ug/kg	200	8.7
1,3-Dichloropropane	ND		ug/kg	250	7.3
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	10.
n-Butylbenzene	ND		ug/kg	50	5.7
sec-Butylbenzene	ND		ug/kg	50	6.1
tert-Butylbenzene	ND		ug/kg	250	6.8
o-Chlorotoluene	ND		ug/kg	250	8.0
p-Chlorotoluene	ND		ug/kg	250	6.6

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/26/17 10:21
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06 Batch: WG972980-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Hexachlorobutadiene	ND		ug/kg	250	11.
Isopropylbenzene	ND		ug/kg	50	5.2
p-Isopropyltoluene	ND		ug/kg	50	6.2
Naphthalene	ND		ug/kg	250	6.9
Acrylonitrile	ND		ug/kg	500	26.
Tert-Butyl Alcohol	ND		ug/kg	3000	150
n-Propylbenzene	ND		ug/kg	50	5.5
1,2,3-Trichlorobenzene	ND		ug/kg	250	7.4
1,2,4-Trichlorobenzene	ND		ug/kg	250	9.1
1,3,5-Trimethylbenzene	ND		ug/kg	250	7.2
1,2,4-Trimethylbenzene	ND		ug/kg	250	7.1
Methyl Acetate	ND		ug/kg	1000	14.
Acrolein	ND		ug/kg	1200	400
Cyclohexane	ND		ug/kg	1000	7.3
1,4-Dioxane	ND		ug/kg	5000	720
Freon-113	ND		ug/kg	1000	14.
p-Diethylbenzene	ND		ug/kg	200	8.0
p-Ethyltoluene	ND		ug/kg	200	6.2
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	6.5
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	20.
Methyl cyclohexane	ND		ug/kg	200	7.7

Project Name: 450 UNION STREET
Project Number: 170301202
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/26/17 10:21
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06 Batch: WG972980-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	96		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/27/17 10:42
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG973210-5					
Methylene chloride	4.6	J	ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	1.2	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/27/17 10:42
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG973210-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.13

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/27/17 10:42
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG973210-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
Tert-Butyl Alcohol	ND		ug/kg	60	2.9
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Acrolein	ND		ug/kg	25	8.1
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
p-Diethylbenzene	ND		ug/kg	4.0	0.16
p-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Methyl cyclohexane	ND		ug/kg	4.0	0.15

Tentatively Identified Compounds			
Total TIC Compounds	8.02	J	ug/kg
Unknown	4.88	J	ug/kg

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/27/17 10:42
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG973210-5					
Tentatively Identified Compounds					
Unknown	3.14	J	ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	87		70-130

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/26/17 22:38
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG973215-5					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	0.61	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/26/17 22:38
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG973215-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.13

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/26/17 22:38
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG973215-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
Tert-Butyl Alcohol	ND		ug/kg	60	2.9
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Acrolein	ND		ug/kg	25	8.1
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
p-Diethylbenzene	ND		ug/kg	4.0	0.16
p-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Methyl cyclohexane	ND		ug/kg	4.0	0.15

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/26/17 22:38
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG973215-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

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: WG972937-3 WG972937-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	110		100		70-130	10		20
Chloroform	100		100		70-130	0		20
2-Chloroethylvinyl ether	97		96		70-130	1		20
Carbon tetrachloride	93		84		63-132	10		20
1,2-Dichloropropane	100		99		70-130	1		20
Dibromochloromethane	94		93		63-130	1		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	94		86		70-130	9		20
Chlorobenzene	98		98		75-130	0		20
Trichlorofluoromethane	120		100		62-150	18		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	99		92		67-130	7		20
Bromodichloromethane	100		97		67-130	3		20
trans-1,3-Dichloropropene	95		92		70-130	3		20
cis-1,3-Dichloropropene	96		92		70-130	4		20
1,1-Dichloropropene	100		98		70-130	2		20
Bromoform	75		78		54-136	4		20
1,1,2,2-Tetrachloroethane	99		110		67-130	11		20
Benzene	100		100		70-130	0		20
Toluene	100		99		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

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: WG972937-3 WG972937-4								
Ethylbenzene	97		95		70-130	2		20
Chloromethane	99		99		64-130	0		20
Bromomethane	120		110		39-139	9		20
Vinyl chloride	110		96		55-140	14		20
Chloroethane	120		120		55-138	0		20
1,1-Dichloroethene	110		100		61-145	10		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	100		99		70-130	1		20
1,2-Dichlorobenzene	94		97		70-130	3		20
1,3-Dichlorobenzene	93		98		70-130	5		20
1,4-Dichlorobenzene	93		96		70-130	3		20
Methyl tert butyl ether	110		110		63-130	0		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	95		90		70-130	5		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	100		99		64-130	1		20
Acrylonitrile	110		100		70-130	10		20
Isopropyl Ether	100		100		70-130	0		20
tert-Butyl Alcohol	106		100		70-130	6		20
Styrene	100		95		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1702181

Report Date: 01/30/17

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: WG972937-3 WG972937-4								
Dichlorodifluoromethane	98		81		36-147	19		20
Acetone	96		92		58-148	4		20
Carbon disulfide	110		100		51-130	10		20
2-Butanone	110		110		63-138	0		20
Vinyl acetate	110		100		70-130	10		20
4-Methyl-2-pentanone	94		95		59-130	1		20
2-Hexanone	86		92		57-130	7		20
Acrolein	110		120		40-160	9		20
Bromochloromethane	100		98		70-130	2		20
2,2-Dichloropropane	96		88		63-133	9		20
1,2-Dibromoethane	100		100		70-130	0		20
1,3-Dichloropropane	100		99		70-130	1		20
1,1,1,2-Tetrachloroethane	89		86		64-130	3		20
Bromobenzene	89		91		70-130	2		20
n-Butylbenzene	120		120		53-136	0		20
sec-Butylbenzene	95		92		70-130	3		20
tert-Butylbenzene	92		92		70-130	0		20
o-Chlorotoluene	95		92		70-130	3		20
p-Chlorotoluene	95		95		70-130	0		20
1,2-Dibromo-3-chloropropane	94		92		41-144	2		20
Hexachlorobutadiene	84		88		63-130	5		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

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: WG972937-3 WG972937-4								
Isopropylbenzene	94		95		70-130	1		20
p-Isopropyltoluene	93		92		70-130	1		20
Naphthalene	92		100		70-130	8		20
n-Propylbenzene	96		95		69-130	1		20
1,2,3-Trichlorobenzene	85		95		70-130	11		20
1,2,4-Trichlorobenzene	90		91		70-130	1		20
1,3,5-Trimethylbenzene	95		98		64-130	3		20
1,2,4-Trimethylbenzene	94		96		70-130	2		20
Methyl Acetate	120		110		70-130	9		20
Ethyl Acetate	110		100		70-130	10		20
Cyclohexane	100		91		70-130	9		20
Ethyl-Tert-Butyl-Ether	97		91		70-130	6		20
Tertiary-Amyl Methyl Ether	93		90		66-130	3		20
1,4-Dioxane	116		102		56-162	13		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	130		110		70-130	17		20
p-Diethylbenzene	94		93		70-130	1		20
p-Ethyltoluene	94		95		70-130	1		20
1,2,4,5-Tetramethylbenzene	94		100		70-130	6		20
Tetrahydrofuran	110		100		58-130	10		20
Ethyl ether	120		110		59-134	9		20
trans-1,4-Dichloro-2-butene	**50**	Q	**53**	Q	70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
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Lab Number: L1702181
Report Date: 01/30/17

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: WG972937-3 WG972937-4								
Iodomethane	82		82		70-130	0		20
Methyl cyclohexane	100		93		70-130	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		103		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	99		106		70-130
Dibromofluoromethane	102		103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06 Batch: WG972980-3 WG972980-4								
Methylene chloride	**142**	Q	122		70-130	15		30
1,1-Dichloroethane	88		94		70-130	7		30
Chloroform	98		107		70-130	9		30
Carbon tetrachloride	93		96		70-130	3		30
1,2-Dichloropropane	89		97		70-130	9		30
Dibromochloromethane	100		107		70-130	7		30
2-Chloroethylvinyl ether	**24**	Q	**17**	Q	70-130	**34**	Q	30
1,1,2-Trichloroethane	106		117		70-130	10		30
Tetrachloroethene	101		106		70-130	5		30
Chlorobenzene	99		109		70-130	10		30
Trichlorofluoromethane	93		94		70-139	1		30
1,2-Dichloroethane	88		96		70-130	9		30
1,1,1-Trichloroethane	94		99		70-130	5		30
Bromodichloromethane	96		106		70-130	10		30
trans-1,3-Dichloropropene	105		115		70-130	9		30
cis-1,3-Dichloropropene	98		108		70-130	10		30
1,1-Dichloropropene	100		105		70-130	5		30
Bromoform	107		114		70-130	6		30
1,1,2,2-Tetrachloroethane	109		118		70-130	8		30
Benzene	97		106		70-130	9		30
Toluene	103		110		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06 Batch: WG972980-3 WG972980-4								
Ethylbenzene	105		111		70-130	6		30
Chloromethane	65		68		52-130	5		30
Bromomethane	102		108		57-147	6		30
Vinyl chloride	94		97		67-130	3		30
Chloroethane	110		116		50-151	5		30
1,1-Dichloroethene	92		93		65-135	1		30
trans-1,2-Dichloroethene	96		100		70-130	4		30
Trichloroethene	95		100		70-130	5		30
1,2-Dichlorobenzene	99		109		70-130	10		30
1,3-Dichlorobenzene	101		112		70-130	10		30
1,4-Dichlorobenzene	101		110		70-130	9		30
Methyl tert butyl ether	96		104		66-130	8		30
p/m-Xylene	102		110		70-130	8		30
o-Xylene	99		108		70-130	9		30
cis-1,2-Dichloroethene	96		106		70-130	10		30
Dibromomethane	94		103		70-130	9		30
Styrene	102		112		70-130	9		30
Dichlorodifluoromethane	94		96		30-146	2		30
Acetone	78		83		54-140	6		30
Carbon disulfide	80		84		59-130	5		30
2-Butanone	**69**	Q	74		70-130	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06 Batch: WG972980-3 WG972980-4								
Vinyl acetate	75		81		70-130	8		30
4-Methyl-2-pentanone	80		89		70-130	11		30
1,2,3-Trichloropropane	105		116		68-130	10		30
2-Hexanone	71		76		70-130	7		30
Bromochloromethane	97		102		70-130	5		30
2,2-Dichloropropane	96		101		70-130	5		30
1,2-Dibromoethane	98		106		70-130	8		30
1,3-Dichloropropane	107		119		69-130	11		30
1,1,1,2-Tetrachloroethane	98		107		70-130	9		30
Bromobenzene	101		110		70-130	9		30
n-Butylbenzene	106		113		70-130	6		30
sec-Butylbenzene	103		108		70-130	5		30
tert-Butylbenzene	100		106		70-130	6		30
o-Chlorotoluene	105		113		70-130	7		30
p-Chlorotoluene	105		115		70-130	9		30
1,2-Dibromo-3-chloropropane	103		115		68-130	11		30
Hexachlorobutadiene	105		107		67-130	2		30
Isopropylbenzene	104		110		70-130	6		30
p-Isopropyltoluene	101		108		70-130	7		30
Naphthalene	94		102		70-130	8		30
Acrylonitrile	78		83		70-130	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06 Batch: WG972980-3 WG972980-4								
Isopropyl Ether	69		77		66-130	11		30
tert-Butyl Alcohol	76		82		70-130	8		30
n-Propylbenzene	105		113		70-130	7		30
1,2,3-Trichlorobenzene	103		112		70-130	8		30
1,2,4-Trichlorobenzene	103		112		70-130	8		30
1,3,5-Trimethylbenzene	105		114		70-130	8		30
1,2,4-Trimethylbenzene	105		114		70-130	8		30
Methyl Acetate	66		73		51-146	10		30
Ethyl Acetate	73		77		70-130	5		30
Acrolein	**67**	Q	**60**	Q	70-130	11		30
Cyclohexane	68		68		59-142	0		30
1,4-Dioxane	90		93		65-136	3		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	81		79		50-139	3		30
p-Diethylbenzene	98		104		70-130	6		30
p-Ethyltoluene	101		109		70-130	8		30
1,2,4,5-Tetramethylbenzene	98		106		70-130	8		30
Tetrahydrofuran	69		74		66-130	7		30
Ethyl ether	102		108		67-130	6		30
trans-1,4-Dichloro-2-butene	83		88		70-130	6		30
Methyl cyclohexane	84		86		70-130	2		30
Ethyl-Tert-Butyl-Ether	79		87		70-130	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06 Batch: WG972980-3 WG972980-4								
Tertiary-Amyl Methyl Ether	93		103		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		90		70-130
Toluene-d8	103		104		70-130
4-Bromofluorobenzene	102		104		70-130
Dibromofluoromethane	94		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1702181

Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG973210-3 WG973210-4								
Methylene chloride	114		107		70-130	6		30
1,1-Dichloroethane	97		94		70-130	3		30
Chloroform	93		90		70-130	3		30
Carbon tetrachloride	86		83		70-130	4		30
1,2-Dichloropropane	98		97		70-130	1		30
Dibromochloromethane	92		92		70-130	0		30
1,1,2-Trichloroethane	96		93		70-130	3		30
Tetrachloroethene	104		102		70-130	2		30
Chlorobenzene	97		96		70-130	1		30
Trichlorofluoromethane	90		89		70-139	1		30
1,2-Dichloroethane	86		84		70-130	2		30
1,1,1-Trichloroethane	90		89		70-130	1		30
Bromodichloromethane	90		89		70-130	1		30
trans-1,3-Dichloropropene	92		90		70-130	2		30
cis-1,3-Dichloropropene	92		90		70-130	2		30
1,1-Dichloropropene	96		93		70-130	3		30
Bromoform	93		93		70-130	0		30
1,1,2,2-Tetrachloroethane	94		92		70-130	2		30
Benzene	96		93		70-130	3		30
Toluene	97		94		70-130	3		30
Ethylbenzene	101		100		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1702181

Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG973210-3 WG973210-4								
Chloromethane	85		79		52-130	7		30
Bromomethane	104		102		57-147	2		30
Vinyl chloride	95		92		67-130	3		30
Chloroethane	88		86		50-151	2		30
1,1-Dichloroethene	97		94		65-135	3		30
trans-1,2-Dichloroethene	97		94		70-130	3		30
Trichloroethene	96		94		70-130	2		30
1,2-Dichlorobenzene	97		95		70-130	2		30
1,3-Dichlorobenzene	98		96		70-130	2		30
1,4-Dichlorobenzene	98		96		70-130	2		30
Methyl tert butyl ether	100		98		66-130	2		30
p/m-Xylene	102		100		70-130	2		30
o-Xylene	94		93		70-130	1		30
cis-1,2-Dichloroethene	97		93		70-130	4		30
Dibromomethane	90		88		70-130	2		30
Styrene	96		95		70-130	1		30
Dichlorodifluoromethane	77		74		30-146	4		30
Acetone	87		82		54-140	6		30
Carbon disulfide	88		85		59-130	3		30
2-Butanone	93		85		70-130	9		30
Vinyl acetate	91		90		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG973210-3 WG973210-4								
4-Methyl-2-pentanone	103		101		70-130	2		30
1,2,3-Trichloropropane	90		87		68-130	3		30
2-Hexanone	92		91		70-130	1		30
Bromochloromethane	97		95		70-130	2		30
2,2-Dichloropropane	90		88		70-130	2		30
1,2-Dibromoethane	94		94		70-130	0		30
1,3-Dichloropropane	95		94		69-130	1		30
1,1,1,2-Tetrachloroethane	93		92		70-130	1		30
Bromobenzene	99		97		70-130	2		30
n-Butylbenzene	97		95		70-130	2		30
sec-Butylbenzene	97		95		70-130	2		30
tert-Butylbenzene	96		95		70-130	1		30
o-Chlorotoluene	94		92		70-130	2		30
p-Chlorotoluene	95		92		70-130	3		30
1,2-Dibromo-3-chloropropane	86		88		68-130	2		30
Hexachlorobutadiene	105		103		67-130	2		30
Isopropylbenzene	98		95		70-130	3		30
p-Isopropyltoluene	96		94		70-130	2		30
Naphthalene	86		86		70-130	0		30
Acrylonitrile	100		94		70-130	6		30
Isopropyl Ether	98		96		66-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1702181

Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG973210-3 WG973210-4								
tert-Butyl Alcohol	79		78		70-130	1		30
n-Propylbenzene	97		94		70-130	3		30
1,2,3-Trichlorobenzene	97		96		70-130	1		30
1,2,4-Trichlorobenzene	102		100		70-130	2		30
1,3,5-Trimethylbenzene	92		90		70-130	2		30
1,2,4-Trimethylbenzene	95		94		70-130	1		30
Methyl Acetate	95		95		51-146	0		30
Ethyl Acetate	94		92		70-130	2		30
Acrolein	71		**60**	Q	70-130	17		30
Cyclohexane	101		98		59-142	3		30
1,4-Dioxane	100		95		65-136	5		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	96		92		50-139	4		30
p-Diethylbenzene	94		92		70-130	2		30
p-Ethyltoluene	102		98		70-130	4		30
1,2,4,5-Tetramethylbenzene	94		92		70-130	2		30
Tetrahydrofuran	104		100		66-130	4		30
Ethyl ether	84		84		67-130	0		30
trans-1,4-Dichloro-2-butene	80		77		70-130	4		30
Methyl cyclohexane	99		95		70-130	4		30
Ethyl-Tert-Butyl-Ether	**155**	Q	**151**	Q	70-130	3		30
Tertiary-Amyl Methyl Ether	**260**	Q	**259**	Q	70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG973210-3 WG973210-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	89		87		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	92		92		70-130
Dibromofluoromethane	92		91		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG973215-3 WG973215-4								
Methylene chloride	106		102		70-130	4		30
1,1-Dichloroethane	108		105		70-130	3		30
Chloroform	112		108		70-130	4		30
Carbon tetrachloride	112		110		70-130	2		30
1,2-Dichloropropane	104		104		70-130	0		30
Dibromochloromethane	95		96		70-130	1		30
2-Chloroethylvinyl ether	**25**	Q	**18**	Q	70-130	**33**	Q	30
1,1,2-Trichloroethane	110		106		70-130	4		30
Tetrachloroethene	104		104		70-130	0		30
Chlorobenzene	100		101		70-130	1		30
Trichlorofluoromethane	108		101		70-139	7		30
1,2-Dichloroethane	108		108		70-130	0		30
1,1,1-Trichloroethane	110		107		70-130	3		30
Bromodichloromethane	107		106		70-130	1		30
trans-1,3-Dichloropropene	89		89		70-130	0		30
cis-1,3-Dichloropropene	80		79		70-130	1		30
1,1-Dichloropropene	106		105		70-130	1		30
Bromoform	85		84		70-130	1		30
1,1,2,2-Tetrachloroethane	102		102		70-130	0		30
Benzene	107		105		70-130	2		30
Toluene	102		101		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG973215-3 WG973215-4								
Ethylbenzene	103		103		70-130	0		30
Chloromethane	108		99		52-130	9		30
Bromomethane	96		88		57-147	9		30
Vinyl chloride	99		93		67-130	6		30
Chloroethane	99		94		50-151	5		30
1,1-Dichloroethene	103		102		65-135	1		30
trans-1,2-Dichloroethene	103		100		70-130	3		30
Trichloroethene	110		108		70-130	2		30
1,2-Dichlorobenzene	97		98		70-130	1		30
1,3-Dichlorobenzene	99		99		70-130	0		30
1,4-Dichlorobenzene	99		97		70-130	2		30
Methyl tert butyl ether	98		98		66-130	0		30
p/m-Xylene	105		105		70-130	0		30
o-Xylene	94		94		70-130	0		30
cis-1,2-Dichloroethene	103		103		70-130	0		30
Dibromomethane	109		107		70-130	2		30
Styrene	94		92		70-130	2		30
Dichlorodifluoromethane	99		94		30-146	5		30
Acetone	118		121		54-140	3		30
Carbon disulfide	102		95		59-130	7		30
2-Butanone	118		122		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG973215-3 WG973215-4								
Vinyl acetate	92		92		70-130	0		30
4-Methyl-2-pentanone	80		84		70-130	5		30
1,2,3-Trichloropropane	104		103		68-130	1		30
2-Hexanone	74		82		70-130	10		30
Bromochloromethane	112		112		70-130	0		30
2,2-Dichloropropane	106		104		70-130	2		30
1,2-Dibromoethane	96		97		70-130	1		30
1,3-Dichloropropane	103		105		69-130	2		30
1,1,1,2-Tetrachloroethane	104		106		70-130	2		30
Bromobenzene	96		96		70-130	0		30
n-Butylbenzene	105		104		70-130	1		30
sec-Butylbenzene	101		100		70-130	1		30
tert-Butylbenzene	97		98		70-130	1		30
o-Chlorotoluene	100		99		70-130	1		30
p-Chlorotoluene	100		99		70-130	1		30
1,2-Dibromo-3-chloropropane	89		90		68-130	1		30
Hexachlorobutadiene	94		95		67-130	1		30
Isopropylbenzene	88		89		70-130	1		30
p-Isopropyltoluene	91		91		70-130	0		30
Naphthalene	75		79		70-130	5		30
Acrylonitrile	101		101		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG973215-3 WG973215-4								
Isopropyl Ether	97		98		66-130	1		30
tert-Butyl Alcohol	95		97		70-130	2		30
n-Propylbenzene	100		99		70-130	1		30
1,2,3-Trichlorobenzene	96		97		70-130	1		30
1,2,4-Trichlorobenzene	91		91		70-130	0		30
1,3,5-Trimethylbenzene	102		102		70-130	0		30
1,2,4-Trimethylbenzene	94		94		70-130	0		30
Methyl Acetate	104		102		51-146	2		30
Ethyl Acetate	94		93		70-130	1		30
Acrolein	81		82		70-130	1		30
Cyclohexane	108		107		59-142	1		30
1,4-Dioxane	87		90		65-136	3		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	111		106		50-139	5		30
p-Diethylbenzene	88		88		70-130	0		30
p-Ethyltoluene	101		100		70-130	1		30
1,2,4,5-Tetramethylbenzene	77		78		70-130	1		30
Tetrahydrofuran	102		118		66-130	15		30
Ethyl ether	99		97		67-130	2		30
trans-1,4-Dichloro-2-butene	97		96		70-130	1		30
Methyl cyclohexane	103		102		70-130	1		30
Ethyl-Tert-Butyl-Ether	96		97		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG973215-3 WG973215-4								
Tertiary-Amyl Methyl Ether	86		88		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		104		70-130
Toluene-d8	99		100		70-130
4-Bromofluorobenzene	95		97		70-130
Dibromofluoromethane	110		105		70-130

SEMIVOLATILES

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-02
Client ID: WC_COMP_B_0-6
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 01/26/17 07:03
Analyst: CB
Percent Solids: 89%

Date Collected: 01/23/17 11:35
Date Received: 01/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 01/25/17 12:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	680		ug/kg	150	19.	1
Benzidine	ND		ug/kg	600	200	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	62	J	ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Azobenzene	ND		ug/kg	180	18.	1
Fluoranthene	9000	E	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	380		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 450 UNION STREET **Lab Number:** L1702181

Project Number: 170301202 **Report Date:** 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-02 Date Collected: 01/23/17 11:35

Client ID: WC_COMP_B_0-6 Date Received: 01/23/17

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	5200		ug/kg	110	21.	1
Benzo(a)pyrene	5000		ug/kg	150	45.	1
Benzo(b)fluoranthene	7200		ug/kg	110	31.	1
Benzo(k)fluoranthene	1400		ug/kg	110	29.	1
Chrysene	5100		ug/kg	110	19.	1
Acenaphthylene	480		ug/kg	150	28.	1
Anthracene	2300		ug/kg	110	36.	1
Benzo(ghi)perylene	3900		ug/kg	150	22.	1
Fluorene	810		ug/kg	180	18.	1
Phenanthrene	7600	E	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	920		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	4200		ug/kg	150	26.	1
Pyrene	8100	E	ug/kg	110	18.	1
Biphenyl	92	J	ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	590		ug/kg	180	17.	1
2-Methylnaphthalene	220		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
n-Nitrosodimethylamine	ND		ug/kg	370	35.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	32	J	ug/kg	260	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1

Project Name: 450 UNION STREET **Lab Number:** L1702181

Project Number: 170301202 **Report Date:** 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-02 Date Collected: 01/23/17 11:35

Client ID: WC_COMP_B_0-6 Date Received: 01/23/17

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	1000		ug/kg	180	18.	1
Atrazine	ND		ug/kg	150	64.	1
Benzaldehyde	ND		ug/kg	240	50.	1
Caprolactam	ND		ug/kg	180	56.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	37.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		25-120
Phenol-d6	57		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	57		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	54		18-120

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-02 D
Client ID: WC_COMP_B_0-6
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 01/27/17 02:54
Analyst: ALS
Percent Solids: 89%

Date Collected: 01/23/17 11:35
Date Received: 01/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 01/25/17 12:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	15000		ug/kg	550	100	5
Phenanthrene	11000		ug/kg	550	110	5
Pyrene	12000		ug/kg	550	91.	5

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-03
Client ID: WC_COMP_B_6-12
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 01/26/17 07:29
Analyst: CB
Percent Solids: 71%

Date Collected: 01/23/17 11:45
Date Received: 01/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 01/25/17 12:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	730		ug/kg	190	24.	1
Benzidine	ND		ug/kg	770	250	1
1,2,4-Trichlorobenzene	ND		ug/kg	230	27.	1
Hexachlorobenzene	ND		ug/kg	140	26.	1
Bis(2-chloroethyl)ether	ND		ug/kg	210	32.	1
2-Chloronaphthalene	ND		ug/kg	230	23.	1
1,2-Dichlorobenzene	ND		ug/kg	230	42.	1
1,3-Dichlorobenzene	ND		ug/kg	230	40.	1
1,4-Dichlorobenzene	ND		ug/kg	230	41.	1
3,3'-Dichlorobenzidine	ND		ug/kg	230	62.	1
2,4-Dinitrotoluene	ND		ug/kg	230	47.	1
2,6-Dinitrotoluene	ND		ug/kg	230	40.	1
Azobenzene	ND		ug/kg	230	22.	1
Fluoranthene	8000		ug/kg	140	27.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	230	25.	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	36.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	280	40.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	250	23.	1
Hexachlorobutadiene	ND		ug/kg	230	34.	1
Hexachlorocyclopentadiene	ND		ug/kg	670	210	1
Hexachloroethane	ND		ug/kg	190	38.	1
Isophorone	ND		ug/kg	210	30.	1
Naphthalene	870		ug/kg	230	28.	1
Nitrobenzene	ND		ug/kg	210	35.	1
NDPA/DPA	ND		ug/kg	190	27.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	230	36.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	230	81.	1
Butyl benzyl phthalate	ND		ug/kg	230	59.	1
Di-n-butylphthalate	ND		ug/kg	230	44.	1
Di-n-octylphthalate	ND		ug/kg	230	80.	1

Project Name: 450 UNION STREET **Lab Number:** L1702181

Project Number: 170301202 **Report Date:** 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-03 Date Collected: 01/23/17 11:45

Client ID: WC_COMP_B_6-12 Date Received: 01/23/17

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	230	22.	1
Dimethyl phthalate	ND		ug/kg	230	49.	1
Benzo(a)anthracene	3700		ug/kg	140	26.	1
Benzo(a)pyrene	3800		ug/kg	190	57.	1
Benzo(b)fluoranthene	4400		ug/kg	140	39.	1
Benzo(k)fluoranthene	1400		ug/kg	140	37.	1
Chrysene	3700		ug/kg	140	24.	1
Acenaphthylene	1100		ug/kg	190	36.	1
Anthracene	1600		ug/kg	140	46.	1
Benzo(ghi)perylene	2100		ug/kg	190	28.	1
Fluorene	1200		ug/kg	230	23.	1
Phenanthrene	6100		ug/kg	140	28.	1
Dibenzo(a,h)anthracene	520		ug/kg	140	27.	1
Indeno(1,2,3-cd)pyrene	2400		ug/kg	190	33.	1
Pyrene	7500		ug/kg	140	23.	1
Biphenyl	170	J	ug/kg	530	54.	1
4-Chloroaniline	ND		ug/kg	230	43.	1
2-Nitroaniline	ND		ug/kg	230	45.	1
3-Nitroaniline	ND		ug/kg	230	44.	1
4-Nitroaniline	ND		ug/kg	230	97.	1
Dibenzofuran	750		ug/kg	230	22.	1
2-Methylnaphthalene	330		ug/kg	280	28.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	230	24.	1
Acetophenone	ND		ug/kg	230	29.	1
n-Nitrosodimethylamine	ND		ug/kg	470	45.	1
2,4,6-Trichlorophenol	ND		ug/kg	140	44.	1
p-Chloro-m-cresol	ND		ug/kg	230	35.	1
2-Chlorophenol	ND		ug/kg	230	28.	1
2,4-Dichlorophenol	ND		ug/kg	210	38.	1
2,4-Dimethylphenol	ND		ug/kg	230	77.	1
2-Nitrophenol	ND		ug/kg	500	88.	1
4-Nitrophenol	ND		ug/kg	330	96.	1
2,4-Dinitrophenol	ND		ug/kg	1100	110	1
4,6-Dinitro-o-cresol	ND		ug/kg	610	110	1
Pentachlorophenol	ND		ug/kg	190	52.	1
Phenol	140	J	ug/kg	230	35.	1
2-Methylphenol	56	J	ug/kg	230	36.	1
3-Methylphenol/4-Methylphenol	400		ug/kg	340	37.	1
2,4,5-Trichlorophenol	ND		ug/kg	230	45.	1

Project Name: 450 UNION STREET **Lab Number:** L1702181

Project Number: 170301202 **Report Date:** 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-03 Date Collected: 01/23/17 11:45

Client ID: WC_COMP_B_6-12 Date Received: 01/23/17

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzoic Acid	ND		ug/kg	760	240	1
Benzyl Alcohol	ND		ug/kg	230	72.	1
Carbazole	640		ug/kg	230	23.	1
Atrazine	ND		ug/kg	190	82.	1
Benzaldehyde	ND		ug/kg	310	63.	1
Caprolactam	ND		ug/kg	230	71.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	230	47.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	56		18-120

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-05
Client ID: WC_COMP_A_0-4
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 01/26/17 06:12
Analyst: CB
Percent Solids: 92%

Date Collected: 01/23/17 12:45
Date Received: 01/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 01/25/17 12:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	280		ug/kg	140	19.	1
Benzidine	ND		ug/kg	590	190	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Azobenzene	ND		ug/kg	180	17.	1
Fluoranthene	5000		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	220		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: 450 UNION STREET **Lab Number:** L1702181

Project Number: 170301202 **Report Date:** 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-05 Date Collected: 01/23/17 12:45

Client ID: WC_COMP_A_0-4 Date Received: 01/23/17

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	2200		ug/kg	110	20.	1
Benzo(a)pyrene	1900		ug/kg	140	44.	1
Benzo(b)fluoranthene	2600		ug/kg	110	30.	1
Benzo(k)fluoranthene	820		ug/kg	110	29.	1
Chrysene	2100		ug/kg	110	19.	1
Acenaphthylene	250		ug/kg	140	28.	1
Anthracene	840		ug/kg	110	35.	1
Benzo(ghi)perylene	1400		ug/kg	140	21.	1
Fluorene	280		ug/kg	180	17.	1
Phenanthrene	4000		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	310		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	1400		ug/kg	140	25.	1
Pyrene	4300		ug/kg	110	18.	1
Biphenyl	44	J	ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	250		ug/kg	180	17.	1
2-Methylnaphthalene	130	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
n-Nitrosodimethylamine	ND		ug/kg	360	34.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	86.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	28	J	ug/kg	260	28.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1

Project Name: 450 UNION STREET **Lab Number:** L1702181

Project Number: 170301202 **Report Date:** 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-05 Date Collected: 01/23/17 12:45

Client ID: WC_COMP_A_0-4 Date Received: 01/23/17

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	380		ug/kg	180	17.	1
Atrazine	ND		ug/kg	140	63.	1
Benzaldehyde	ND		ug/kg	240	48.	1
Caprolactam	ND		ug/kg	180	54.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	48		18-120

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 01/25/17 22:32
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 01/25/17 12:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,05 Batch: WG972464-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	550	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 01/25/17 22:32
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 01/25/17 12:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,05 Batch: WG972464-1					
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	330	32.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 01/25/17 22:32
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 01/25/17 12:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,05 Batch: WG972464-1					
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	45.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		25-120
Phenol-d6	48		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	53		30-120
2,4,6-Tribromophenol	48		10-136
4-Terphenyl-d14	49		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05 Batch: WG972464-2 WG972464-3								
Acenaphthene	60		54		31-137	11		50
Benzidine	41		35		10-66	16		50
1,2,4-Trichlorobenzene	71		64		38-107	10		50
Hexachlorobenzene	76		66		40-140	14		50
Bis(2-chloroethyl)ether	56		52		40-140	7		50
2-Chloronaphthalene	72		64		40-140	12		50
1,2-Dichlorobenzene	63		58		40-140	8		50
1,3-Dichlorobenzene	61		57		40-140	7		50
1,4-Dichlorobenzene	63		58		28-104	8		50
3,3'-Dichlorobenzidine	41		**36**	Q	40-140	13		50
2,4-Dinitrotoluene	77		67		40-132	14		50
2,6-Dinitrotoluene	78		68		40-140	14		50
Azobenzene	61		55		40-140	10		50
Fluoranthene	70		59		40-140	17		50
4-Chlorophenyl phenyl ether	67		60		40-140	11		50
4-Bromophenyl phenyl ether	75		65		40-140	14		50
Bis(2-chloroisopropyl)ether	42		40		40-140	5		50
Bis(2-chloroethoxy)methane	63		56		40-117	12		50
Hexachlorobutadiene	74		68		40-140	8		50
Hexachlorocyclopentadiene	73		71		40-140	3		50
Hexachloroethane	64		58		40-140	10		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05 Batch: WG972464-2 WG972464-3								
Isophorone	69		61		40-140	12		50
Naphthalene	63		59		40-140	7		50
Nitrobenzene	74		66		40-140	11		50
NDPA/DPA	67		59		36-157	13		50
n-Nitrosodi-n-propylamine	67		62		32-121	8		50
Bis(2-ethylhexyl)phthalate	73		66		40-140	10		50
Butyl benzyl phthalate	77		65		40-140	17		50
Di-n-butylphthalate	70		62		40-140	12		50
Di-n-octylphthalate	72		64		40-140	12		50
Diethyl phthalate	70		62		40-140	12		50
Dimethyl phthalate	80		71		40-140	12		50
Benzo(a)anthracene	63		57		40-140	10		50
Benzo(a)pyrene	68		60		40-140	13		50
Benzo(b)fluoranthene	65		58		40-140	11		50
Benzo(k)fluoranthene	66		58		40-140	13		50
Chrysene	58		53		40-140	9		50
Acenaphthylene	77		68		40-140	12		50
Anthracene	64		56		40-140	13		50
Benzo(ghi)perylene	72		63		40-140	13		50
Fluorene	65		58		40-140	11		50
Phenanthrene	60		54		40-140	11		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05 Batch: WG972464-2 WG972464-3								
Dibenzo(a,h)anthracene	69		61		40-140	12		50
Indeno(1,2,3-cd)pyrene	72		63		40-140	13		50
Pyrene	68		58		35-142	16		50
Biphenyl	69		63		54-104	9		50
Aniline	**39**	Q	40		40-140	3		50
4-Chloroaniline	41		**38**	Q	40-140	8		50
1-Methylnaphthalene	79		72		26-130	9		50
2-Nitroaniline	83		72		47-134	14		50
3-Nitroaniline	56		49		26-129	13		50
4-Nitroaniline	72		63		41-125	13		50
Dibenzofuran	64		58		40-140	10		50
2-Methylnaphthalene	67		63		40-140	6		50
1,2,4,5-Tetrachlorobenzene	71		65		40-117	9		50
Pentachloronitrobenzene	96		84		42-153	13		50
Acetophenone	75		67		14-144	11		50
n-Nitrosodimethylamine	52		46		22-100	12		50
2,4,6-Trichlorophenol	84		75		30-130	11		50
p-Chloro-m-cresol	87		76		26-103	13		50
2-Chlorophenol	69		62		25-102	11		50
2,4-Dichlorophenol	82		71		30-130	14		50
2,4-Dimethylphenol	83		75		30-130	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1702181

Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05 Batch: WG972464-2 WG972464-3								
2-Nitrophenol	82		76		30-130	8		50
4-Nitrophenol	78		69		11-114	12		50
2,4-Dinitrophenol	54		59		4-130	9		50
4,6-Dinitro-o-cresol	80		73		10-130	9		50
Pentachlorophenol	67		62		17-109	8		50
Phenol	66		59		26-90	11		50
2-Methylphenol	69		61		30-130.	12		50
3-Methylphenol/4-Methylphenol	74		63		30-130	16		50
2,4,5-Trichlorophenol	87		74		30-130	16		50
Benzoic Acid	19		22		10-110	15		50
Benzyl Alcohol	81		73		40-140	10		50
Carbazole	62		55		54-128	12		50
Pyridine	46		42		10-93	9		50
Parathion, ethyl	91		80		40-140	13		50
Atrazine	87		75		40-140	15		50
Benzaldehyde	66		60		40-140	10		50
Caprolactam	64		58		15-130	10		50
2,3,4,6-Tetrachlorophenol	76		65		40-140	16		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05 Batch: WG972464-2 WG972464-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	62		56		25-120
Phenol-d6	65		57		10-120
Nitrobenzene-d5	72		65		23-120
2-Fluorobiphenyl	68		61		30-120
2,4,6-Tribromophenol	72		64		10-136
4-Terphenyl-d14	67		56		18-120

PETROLEUM HYDROCARBONS

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-01
Client ID: WC03_GRAB_2-3
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 01/25/17 20:40
Analyst: EK
Percent Solids: 81%

Date Collected: 01/23/17 10:25
Date Received: 01/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 01/24/17 21:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	264000		ug/kg	39800	4580	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	99		40-140

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-01
Client ID: WC03_GRAB_2-3
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 01/26/17 20:57
Analyst: JM
Percent Solids: 81%

Date Collected: 01/23/17 10:25
Date Received: 01/23/17
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	2300		ug/kg	2300	44.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	113		70-130
4-Bromofluorobenzene	87		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-04
Client ID: WC04_GRAB_11-12
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 01/25/17 21:13
Analyst: EK
Percent Solids: 69%

Date Collected: 01/23/17 11:30
Date Received: 01/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 01/24/17 21:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	135000		ug/kg	47300	5440	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	98		40-140

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-04
Client ID: WC04_GRAB_11-12
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 01/26/17 21:38
Analyst: JM
Percent Solids: 69%

Date Collected: 01/23/17 11:30
Date Received: 01/23/17
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	730	J	ug/kg	1900	36.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	113		70-130
4-Bromofluorobenzene	101		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-06
Client ID: WC01_GRAB_2-3
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 01/26/17 22:19
Analyst: JM
Percent Solids: 89%

Date Collected: 01/23/17 12:30
Date Received: 01/23/17
Field Prep: Not Specified
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	8600		ug/kg	1600	31.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	112		70-130
4-Bromofluorobenzene	98		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-06 D
Client ID: WC01_GRAB_2-3
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 01/25/17 22:18
Analyst: EK
Percent Solids: 89%

Date Collected: 01/23/17 12:30
Date Received: 01/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 01/24/17 21:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	4800000		ug/kg	373000	42800	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	97		40-140

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 01/25/17 14:11
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 01/24/17 21:29

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01,04,06 Batch: WG972244-1					
TPH	3680	J	ug/kg	31500	3620

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	92		40-140

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 01/26/17 17:34
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 01,04,06 Batch: WG973181-3					
Gasoline Range Organics	550	J	ug/kg	2500	48.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	106		70-130
4-Bromofluorobenzene	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1702181

Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01,04,06 Batch: WG972244-2								
TPH	97		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	84				40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1702181

Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab	Associated sample(s): 01,04,06		Batch: WG973181-1 WG973181-2					
Gasoline Range Organics	92		97		80-120	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	106		110		70-130
4-Bromofluorobenzene	95		100		70-130

PCBS

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-02
Client ID: WC_COMP_B_0-6
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 01/25/17 10:25
Analyst: JW
Percent Solids: 89%

Date Collected: 01/23/17 11:35
Date Received: 01/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 01/25/17 03:50
Cleanup Method: EPA 3665A
Cleanup Date: 01/25/17
Cleanup Method: EPA 3660B
Cleanup Date: 01/25/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.0	2.92	1	A
Aroclor 1221	ND		ug/kg	37.0	3.41	1	A
Aroclor 1232	ND		ug/kg	37.0	4.34	1	A
Aroclor 1242	ND		ug/kg	37.0	4.53	1	A
Aroclor 1248	ND		ug/kg	37.0	3.12	1	A
Aroclor 1254	ND		ug/kg	37.0	3.04	1	A
Aroclor 1260	9.51	J	ug/kg	37.0	2.82	1	B
Aroclor 1262	ND		ug/kg	37.0	1.84	1	A
Aroclor 1268	ND		ug/kg	37.0	5.36	1	A
PCBs, Total	9.51	J	ug/kg	37.0	2.82	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID:	L1702181-03	Date Collected:	01/23/17 11:45
Client ID:	WC_COMP_B_6-12	Date Received:	01/23/17
Sample Location:	BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	01/25/17 03:50
Analytical Date:	01/25/17 10:38	Cleanup Method:	EPA 3665A
Analyst:	JW	Cleanup Date:	01/25/17
Percent Solids:	71%	Cleanup Method:	EPA 3660B
		Cleanup Date:	01/25/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	45.9	3.63	1	A
Aroclor 1221	ND		ug/kg	45.9	4.24	1	A
Aroclor 1232	ND		ug/kg	45.9	5.38	1	A
Aroclor 1242	ND		ug/kg	45.9	5.62	1	A
Aroclor 1248	ND		ug/kg	45.9	3.88	1	A
Aroclor 1254	ND		ug/kg	45.9	3.78	1	A
Aroclor 1260	ND		ug/kg	45.9	3.50	1	A
Aroclor 1262	ND		ug/kg	45.9	2.28	1	A
Aroclor 1268	ND		ug/kg	45.9	6.66	1	A
PCBs, Total	ND		ug/kg	45.9	2.28	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID:	L1702181-05	Date Collected:	01/23/17 12:45
Client ID:	WC_COMP_A_0-4	Date Received:	01/23/17
Sample Location:	BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	01/25/17 03:50
Analytical Date:	01/25/17 10:52	Cleanup Method:	EPA 3665A
Analyst:	JW	Cleanup Date:	01/25/17
Percent Solids:	92%	Cleanup Method:	EPA 3660B
		Cleanup Date:	01/25/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.3	2.79	1	A
Aroclor 1221	ND		ug/kg	35.3	3.25	1	A
Aroclor 1232	ND		ug/kg	35.3	4.14	1	A
Aroclor 1242	ND		ug/kg	35.3	4.32	1	A
Aroclor 1248	ND		ug/kg	35.3	2.98	1	A
Aroclor 1254	ND		ug/kg	35.3	2.90	1	A
Aroclor 1260	ND		ug/kg	35.3	2.69	1	A
Aroclor 1262	ND		ug/kg	35.3	1.75	1	A
Aroclor 1268	ND		ug/kg	35.3	5.12	1	A
PCBs, Total	ND		ug/kg	35.3	1.75	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 01/25/17 10:56
Analyst: JA

Extraction Method: EPA 3546
Extraction Date: 01/25/17 01:06
Cleanup Method: EPA 3665A
Cleanup Date: 01/25/17
Cleanup Method: EPA 3660B
Cleanup Date: 01/25/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02-03,05 Batch: WG972282-1						
Aroclor 1016	ND		ug/kg	31.9	2.52	A
Aroclor 1221	ND		ug/kg	31.9	2.94	A
Aroclor 1232	ND		ug/kg	31.9	3.74	A
Aroclor 1242	ND		ug/kg	31.9	3.90	A
Aroclor 1248	ND		ug/kg	31.9	2.69	A
Aroclor 1254	ND		ug/kg	31.9	2.62	A
Aroclor 1260	ND		ug/kg	31.9	2.43	A
Aroclor 1262	ND		ug/kg	31.9	1.58	A
Aroclor 1268	ND		ug/kg	31.9	4.62	A
PCBs, Total	ND		ug/kg	31.9	1.58	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	61		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1702181

Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02-03,05 Batch: WG972282-2 WG972282-3									
Aroclor 1016	66		71		40-140	7		50	A
Aroclor 1260	41		43		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		81		30-150	A
Decachlorobiphenyl	38		37		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		80		30-150	B
Decachlorobiphenyl	50		58		30-150	B

PESTICIDES

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-02
Client ID: WC_COMP_B_0-6
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 01/25/17 16:37
Analyst: RL
Percent Solids: 89%

Date Collected: 01/23/17 11:35
Date Received: 01/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 01/24/17 21:46
Cleanup Method: EPA 3620B
Cleanup Date: 01/25/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.71	0.335	1	A
Lindane	ND		ug/kg	0.713	0.319	1	A
Alpha-BHC	ND		ug/kg	0.713	0.202	1	A
Beta-BHC	ND		ug/kg	1.71	0.649	1	A
Heptachlor	ND		ug/kg	0.856	0.384	1	A
Aldrin	ND		ug/kg	1.71	0.603	1	A
Heptachlor epoxide	ND		ug/kg	3.21	0.963	1	A
Endrin	ND		ug/kg	0.713	0.292	1	A
Endrin aldehyde	ND		ug/kg	2.14	0.749	1	A
Endrin ketone	ND		ug/kg	1.71	0.441	1	A
Dieldrin	8.24	P	ug/kg	1.07	0.535	1	B
4,4'-DDE	1.77		ug/kg	1.71	0.396	1	A
4,4'-DDD	ND		ug/kg	1.71	0.610	1	A
4,4'-DDT	ND		ug/kg	3.21	1.38	1	A
Endosulfan I	ND		ug/kg	1.71	0.404	1	A
Endosulfan II	2.39	PI	ug/kg	1.71	0.572	1	A
Endosulfan sulfate	ND		ug/kg	0.713	0.340	1	A
Methoxychlor	ND		ug/kg	3.21	0.998	1	A
Toxaphene	ND		ug/kg	32.1	8.99	1	A
cis-Chlordane	1.38	J	ug/kg	2.14	0.596	1	B
trans-Chlordane	1.78	JPI	ug/kg	2.14	0.565	1	A
Chlordane	44.0		ug/kg	13.9	5.67	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	38		30-150	B
Decachlorobiphenyl	59		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	70		30-150	A

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-02
Client ID: WC_COMP_B_0-6
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 01/25/17 18:46
Analyst: KEG
Percent Solids: 89%
Methylation Date: 01/24/17 21:09

Date Collected: 01/23/17 11:35
Date Received: 01/23/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 01/24/17 01:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	184	11.6	1	A
2,4,5-T	ND		ug/kg	184	5.72	1	A
2,4,5-TP (Silvex)	ND		ug/kg	184	4.91	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	87		30-150	A
DCAA	92		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-03
Client ID: WC_COMP_B_6-12
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 01/25/17 19:05
Analyst: KEG
Percent Solids: 71%
Methylation Date: 01/24/17 21:09

Date Collected: 01/23/17 11:45
Date Received: 01/23/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 01/24/17 01:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	233	14.7	1	A
2,4,5-T	ND		ug/kg	233	7.22	1	A
2,4,5-TP (Silvex)	ND		ug/kg	233	6.19	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	96		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-03 D
Client ID: WC_COMP_B_6-12
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 01/30/17 12:55
Analyst: KEG
Percent Solids: 71%

Date Collected: 01/23/17 11:45
Date Received: 01/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 01/24/17 21:46
Cleanup Method: EPA 3620B
Cleanup Date: 01/25/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	11.0	2.15	5	A
Lindane	92.9	P	ug/kg	4.58	2.05	5	A
Alpha-BHC	ND		ug/kg	4.58	1.30	5	A
Beta-BHC	ND		ug/kg	11.0	4.17	5	A
Heptachlor	ND		ug/kg	5.50	2.46	5	A
Aldrin	ND		ug/kg	11.0	3.87	5	A
Heptachlor epoxide	ND		ug/kg	20.6	6.18	5	A
Endrin	ND		ug/kg	4.58	1.88	5	A
Endrin aldehyde	ND		ug/kg	13.7	4.81	5	A
Endrin ketone	ND		ug/kg	11.0	2.83	5	A
Dieldrin	ND		ug/kg	6.87	3.43	5	A
4,4'-DDE	ND		ug/kg	11.0	2.54	5	A
4,4'-DDD	ND		ug/kg	11.0	3.92	5	A
4,4'-DDT	ND		ug/kg	20.6	8.84	5	A
Endosulfan I	ND		ug/kg	11.0	2.60	5	A
Endosulfan II	7.25	JPI	ug/kg	11.0	3.67	5	A
Endosulfan sulfate	ND		ug/kg	4.58	2.18	5	A
Methoxychlor	ND		ug/kg	20.6	6.41	5	A
Toxaphene	ND		ug/kg	206	57.7	5	A
cis-Chlordane	ND		ug/kg	13.7	3.83	5	A
trans-Chlordane	18.2	PI	ug/kg	13.7	3.63	5	A
Chlordane	ND		ug/kg	89.3	36.4	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	116		30-150	B
2,4,5,6-Tetrachloro-m-xylene	**20100**	Q	30-150	A
Decachlorobiphenyl	140		30-150	A

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-05
Client ID: WC_COMP_A_0-4
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 01/26/17 15:05
Analyst: RL
Percent Solids: 92%

Date Collected: 01/23/17 12:45
Date Received: 01/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 01/24/17 21:46
Cleanup Method: EPA 3620B
Cleanup Date: 01/25/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.64	0.321	1	A
Lindane	ND		ug/kg	0.683	0.305	1	A
Alpha-BHC	ND		ug/kg	0.683	0.194	1	A
Beta-BHC	ND		ug/kg	1.64	0.622	1	A
Heptachlor	ND		ug/kg	0.820	0.368	1	A
Aldrin	ND		ug/kg	1.64	0.577	1	A
Heptachlor epoxide	ND		ug/kg	3.07	0.922	1	A
Endrin	ND		ug/kg	0.683	0.280	1	A
Endrin aldehyde	ND		ug/kg	2.05	0.717	1	A
Endrin ketone	ND		ug/kg	1.64	0.422	1	A
Dieldrin	ND		ug/kg	1.02	0.512	1	A
4,4'-DDE	ND		ug/kg	1.64	0.379	1	A
4,4'-DDD	ND		ug/kg	1.64	0.585	1	A
4,4'-DDT	ND		ug/kg	3.07	1.32	1	A
Endosulfan I	ND		ug/kg	1.64	0.387	1	A
Endosulfan II	1.37	JPI	ug/kg	1.64	0.548	1	A
Endosulfan sulfate	ND		ug/kg	0.683	0.325	1	A
Methoxychlor	ND		ug/kg	3.07	0.956	1	A
Toxaphene	ND		ug/kg	30.7	8.61	1	A
cis-Chlordane	ND		ug/kg	2.05	0.571	1	A
trans-Chlordane	2.09	PI	ug/kg	2.05	0.541	1	A
Chlordane	ND		ug/kg	13.3	5.43	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	102		30-150	B
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	110		30-150	A

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-05
Client ID: WC_COMP_A_0-4
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 01/25/17 19:25
Analyst: KEG
Percent Solids: 92%
Methylation Date: 01/24/17 21:09

Date Collected: 01/23/17 12:45
Date Received: 01/23/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 01/24/17 01:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	180	11.4	1	A
2,4,5-T	ND		ug/kg	180	5.59	1	A
2,4,5-TP (Silvex)	ND		ug/kg	180	4.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	98		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 01/25/17 17:08
Analyst: DM

Extraction Method: EPA 8151A
Extraction Date: 01/24/17 01:25

Methylation Date: 01/24/17 21:09

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 02-03,05 Batch: WG971961-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.04	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	80		30-150	A
DCAA	95		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 01/25/17 12:17
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 01/24/17 21:46
Cleanup Method: EPA 3620B
Cleanup Date: 01/25/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02-03,05 Batch: WG972247-1						
Delta-BHC	ND		ug/kg	1.50	0.294	A
Lindane	ND		ug/kg	0.626	0.280	A
Alpha-BHC	ND		ug/kg	0.626	0.178	A
Beta-BHC	ND		ug/kg	1.50	0.570	A
Heptachlor	ND		ug/kg	0.752	0.337	A
Aldrin	ND		ug/kg	1.50	0.529	A
Heptachlor epoxide	ND		ug/kg	2.82	0.846	A
Endrin	ND		ug/kg	0.626	0.257	A
Endrin aldehyde	ND		ug/kg	1.88	0.658	A
Endrin ketone	ND		ug/kg	1.50	0.387	A
Dieldrin	ND		ug/kg	0.940	0.470	A
4,4'-DDE	ND		ug/kg	1.50	0.348	A
4,4'-DDD	ND		ug/kg	1.50	0.536	A
4,4'-DDT	ND		ug/kg	2.82	1.21	A
Endosulfan I	ND		ug/kg	1.50	0.355	A
Endosulfan II	ND		ug/kg	1.50	0.502	A
Endosulfan sulfate	ND		ug/kg	0.626	0.298	A
Methoxychlor	ND		ug/kg	2.82	0.877	A
Toxaphene	ND		ug/kg	28.2	7.89	A
cis-Chlordane	ND		ug/kg	1.88	0.524	A
trans-Chlordane	ND		ug/kg	1.88	0.496	A
Chlordane	ND		ug/kg	12.2	4.98	A

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 01/25/17 12:17
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 01/24/17 21:46
Cleanup Method: EPA 3620B
Cleanup Date: 01/25/17

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02-03,05 Batch: WG972247-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	68		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	65		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 02-03,05 Batch: WG971961-2 WG971961-3									
2,4-D	80		71		30-150	12		30	A
2,4,5-T	76		68		30-150	11		30	A
2,4,5-TP (Silvex)	70		78		30-150	11		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	86		85		30-150	A
DCAA	93		100		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1702181

Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02-03,05 Batch: WG972247-2 WG972247-3									
Delta-BHC	85		83		30-150	2		30	A
Lindane	93		93		30-150	0		30	A
Alpha-BHC	82		77		30-150	6		30	A
Beta-BHC	109		103		30-150	6		30	A
Heptachlor	101		100		30-150	1		30	A
Aldrin	95		94		30-150	1		30	A
Heptachlor epoxide	100		99		30-150	1		30	A
Endrin	102		101		30-150	1		30	A
Endrin aldehyde	86		88		30-150	2		30	A
Endrin ketone	97		97		30-150	0		30	A
Dieldrin	105		105		30-150	0		30	A
4,4'-DDE	96		95		30-150	1		30	A
4,4'-DDD	98		97		30-150	1		30	A
4,4'-DDT	110		110		30-150	0		30	A
Endosulfan I	94		94		30-150	0		30	A
Endosulfan II	95		95		30-150	0		30	A
Endosulfan sulfate	90		90		30-150	0		30	A
Methoxychlor	100		101		30-150	1		30	A
cis-Chlordane	86		84		30-150	2		30	A
trans-Chlordane	76		77		30-150	1		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02-03,05 Batch: WG972247-2 WG972247-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		55		30-150	B
Decachlorobiphenyl	73		69		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		78		30-150	A
Decachlorobiphenyl	70		71		30-150	A

METALS

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-02
Client ID: WC_COMP_B_0-6
Sample Location: BROOKLYN, NY
Matrix: Soil
Percent Solids: 89%

Date Collected: 01/23/17 11:35
Date Received: 01/23/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 01/25/17 05:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.0	0.02	1	01/27/17 16:28	01/27/17 19:42	EPA 3015	1,6010C	AB
Barium, TCLP	0.46	J	mg/l	0.50	0.02	1	01/27/17 16:28	01/27/17 19:42	EPA 3015	1,6010C	AB
Cadmium, TCLP	0.01	J	mg/l	0.10	0.01	1	01/27/17 16:28	01/27/17 19:42	EPA 3015	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.20	0.02	1	01/27/17 16:28	01/27/17 19:42	EPA 3015	1,6010C	AB
Lead, TCLP	0.16	J	mg/l	0.50	0.03	1	01/27/17 16:28	01/27/17 19:42	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	01/26/17 12:06	01/27/17 15:47	EPA 7470A	1,7470A	JH
Selenium, TCLP	ND		mg/l	0.50	0.04	1	01/27/17 16:28	01/27/17 19:42	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.10	0.03	1	01/27/17 16:28	01/27/17 19:42	EPA 3015	1,6010C	AB

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-02
Client ID: WC_COMP_B_0-6
Sample Location: BROOKLYN, NY
Matrix: Soil
Percent Solids: 89%

Date Collected: 01/23/17 11:35
Date Received: 01/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4900		mg/kg	8.7	2.3	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
Antimony, Total	18		mg/kg	4.3	0.33	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
Arsenic, Total	5.5		mg/kg	0.87	0.18	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
Barium, Total	73		mg/kg	0.87	0.15	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
Beryllium, Total	0.27	J	mg/kg	0.43	0.03	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
Cadmium, Total	0.40	J	mg/kg	0.87	0.09	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
Calcium, Total	8400		mg/kg	8.7	3.0	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
Chromium, Total	11		mg/kg	0.87	0.08	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
Cobalt, Total	4.2		mg/kg	1.7	0.14	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
Copper, Total	220		mg/kg	0.87	0.22	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
Iron, Total	12000		mg/kg	4.3	0.78	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
Lead, Total	200		mg/kg	4.3	0.23	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
Magnesium, Total	2200		mg/kg	8.7	1.3	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
Manganese, Total	190		mg/kg	0.87	0.14	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
Mercury, Total	1.4		mg/kg	0.07	0.02	1	01/25/17 09:00	01/30/17 10:29	EPA 7471B	1,7471B	JH
Nickel, Total	16		mg/kg	2.2	0.21	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
Potassium, Total	860		mg/kg	220	12.	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	1.7	0.22	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	0.87	0.24	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
Sodium, Total	230		mg/kg	170	2.7	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	1.7	0.27	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
Vanadium, Total	16		mg/kg	0.87	0.18	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
Zinc, Total	360		mg/kg	4.3	0.25	2	01/24/17 21:30	01/26/17 00:31	EPA 3050B	1,6010C	MC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	11		mg/kg	0.90	0.90	1		01/26/17 22:22	NA	107,-	

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-03
Client ID: WC_COMP_B_6-12
Sample Location: BROOKLYN, NY
Matrix: Soil
Percent Solids: 71%

Date Collected: 01/23/17 11:45
Date Received: 01/23/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 01/25/17 05:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.0	0.02	1	01/27/17 16:28	01/27/17 20:12	EPA 3015	1,6010C	AB
Barium, TCLP	0.37	J	mg/l	0.50	0.02	1	01/27/17 16:28	01/27/17 20:12	EPA 3015	1,6010C	AB
Cadmium, TCLP	ND		mg/l	0.10	0.01	1	01/27/17 16:28	01/27/17 20:12	EPA 3015	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.20	0.02	1	01/27/17 16:28	01/27/17 20:12	EPA 3015	1,6010C	AB
Lead, TCLP	0.33	J	mg/l	0.50	0.03	1	01/27/17 16:28	01/27/17 20:12	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	01/26/17 12:06	01/27/17 15:49	EPA 7470A	1,7470A	JH
Selenium, TCLP	ND		mg/l	0.50	0.04	1	01/27/17 16:28	01/27/17 20:12	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.10	0.03	1	01/27/17 16:28	01/27/17 20:12	EPA 3015	1,6010C	AB

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-03
Client ID: WC_COMP_B_6-12
Sample Location: BROOKLYN, NY
Matrix: Soil
Percent Solids: 71%

Date Collected: 01/23/17 11:45
Date Received: 01/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7400		mg/kg	11	3.0	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
Antimony, Total	6.7		mg/kg	5.6	0.42	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
Arsenic, Total	6.2		mg/kg	1.1	0.23	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
Barium, Total	68		mg/kg	1.1	0.19	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
Beryllium, Total	0.30	J	mg/kg	0.56	0.04	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
Cadmium, Total	ND		mg/kg	1.1	0.11	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
Calcium, Total	17000		mg/kg	11	3.9	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
Chromium, Total	13		mg/kg	1.1	0.11	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
Cobalt, Total	5.6		mg/kg	2.2	0.18	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
Copper, Total	28		mg/kg	1.1	0.29	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
Iron, Total	15000		mg/kg	5.6	1.0	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
Lead, Total	160		mg/kg	5.6	0.30	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
Magnesium, Total	4200		mg/kg	11	1.7	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
Manganese, Total	460		mg/kg	1.1	0.18	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
Mercury, Total	0.77		mg/kg	0.09	0.02	1	01/25/17 09:00	01/30/17 10:31	EPA 7471B	1,7471B	JH
Nickel, Total	18		mg/kg	2.8	0.27	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
Potassium, Total	1000		mg/kg	280	16.	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
Selenium, Total	0.69	J	mg/kg	2.2	0.29	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	1.1	0.32	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
Sodium, Total	320		mg/kg	220	3.5	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	2.2	0.35	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
Vanadium, Total	18		mg/kg	1.1	0.23	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
Zinc, Total	54		mg/kg	5.6	0.33	2	01/24/17 21:30	01/26/17 01:03	EPA 3050B	1,6010C	MC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	13		mg/kg	1.1	1.1	1		01/26/17 22:23	NA	107,-	

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-05
Client ID: WC_COMP_A_0-4
Sample Location: BROOKLYN, NY
Matrix: Soil
Percent Solids: 92%

Date Collected: 01/23/17 12:45
Date Received: 01/23/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 01/25/17 05:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.03	J	mg/l	1.0	0.02	1	01/27/17 16:28	01/27/17 20:17	EPA 3015	1,6010C	AB
Barium, TCLP	0.36	J	mg/l	0.50	0.02	1	01/27/17 16:28	01/27/17 20:17	EPA 3015	1,6010C	AB
Cadmium, TCLP	0.01	J	mg/l	0.10	0.01	1	01/27/17 16:28	01/27/17 20:17	EPA 3015	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.20	0.02	1	01/27/17 16:28	01/27/17 20:17	EPA 3015	1,6010C	AB
Lead, TCLP	1.8		mg/l	0.50	0.03	1	01/27/17 16:28	01/27/17 20:17	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	01/26/17 12:06	01/27/17 15:50	EPA 7470A	1,7470A	JH
Selenium, TCLP	ND		mg/l	0.50	0.04	1	01/27/17 16:28	01/27/17 20:17	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.10	0.03	1	01/27/17 16:28	01/27/17 20:17	EPA 3015	1,6010C	AB

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-05
Client ID: WC_COMP_A_0-4
Sample Location: BROOKLYN, NY
Matrix: Soil
Percent Solids: 92%

Date Collected: 01/23/17 12:45
Date Received: 01/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4100		mg/kg	8.3	2.2	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
Antimony, Total	13		mg/kg	4.2	0.32	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
Arsenic, Total	5.1		mg/kg	0.83	0.17	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
Barium, Total	43		mg/kg	0.83	0.14	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
Beryllium, Total	0.29	J	mg/kg	0.42	0.03	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
Cadmium, Total	0.58	J	mg/kg	0.83	0.08	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
Calcium, Total	17000		mg/kg	8.3	2.9	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
Chromium, Total	7.2		mg/kg	0.83	0.08	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
Cobalt, Total	3.5		mg/kg	1.7	0.14	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
Copper, Total	2000		mg/kg	0.83	0.21	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
Iron, Total	8800		mg/kg	4.2	0.75	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
Lead, Total	180		mg/kg	4.2	0.22	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
Magnesium, Total	8400		mg/kg	8.3	1.3	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
Manganese, Total	180		mg/kg	0.83	0.13	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
Mercury, Total	0.22		mg/kg	0.07	0.01	1	01/25/17 09:00	01/30/17 10:33	EPA 7471B	1,7471B	JH
Nickel, Total	22		mg/kg	2.1	0.20	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
Potassium, Total	1300		mg/kg	210	12.	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	1.7	0.21	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	0.83	0.24	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
Sodium, Total	170		mg/kg	170	2.6	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	1.7	0.26	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
Vanadium, Total	12		mg/kg	0.83	0.17	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
Zinc, Total	740		mg/kg	4.2	0.24	2	01/24/17 21:30	01/26/17 01:07	EPA 3050B	1,6010C	MC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.2		mg/kg	0.87	0.87	1		01/26/17 22:23	NA	107,-	

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-03,05 Batch: WG972233-1										
Aluminum, Total	ND		mg/kg	4.0	1.1	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC
Antimony, Total	0.29	J	mg/kg	2.0	0.15	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC
Arsenic, Total	ND		mg/kg	0.40	0.08	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC
Barium, Total	ND		mg/kg	0.40	0.07	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC
Beryllium, Total	ND		mg/kg	0.20	0.01	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC
Cadmium, Total	ND		mg/kg	0.40	0.04	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC
Calcium, Total	ND		mg/kg	4.0	1.4	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC
Chromium, Total	ND		mg/kg	0.40	0.04	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC
Cobalt, Total	ND		mg/kg	0.80	0.07	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC
Copper, Total	ND		mg/kg	0.40	0.10	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC
Iron, Total	ND		mg/kg	2.0	0.36	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC
Lead, Total	ND		mg/kg	2.0	0.11	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC
Magnesium, Total	ND		mg/kg	4.0	0.62	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC
Manganese, Total	ND		mg/kg	0.40	0.06	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC
Nickel, Total	ND		mg/kg	1.0	0.10	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC
Potassium, Total	ND		mg/kg	100	5.8	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC
Selenium, Total	ND		mg/kg	0.80	0.10	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC
Silver, Total	ND		mg/kg	0.40	0.11	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC
Sodium, Total	ND		mg/kg	80	1.3	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC
Thallium, Total	ND		mg/kg	0.80	0.13	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC
Vanadium, Total	ND		mg/kg	0.40	0.08	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC
Zinc, Total	ND		mg/kg	2.0	0.12	1	01/24/17 21:30	01/26/17 01:45	1,6010C	MC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-03,05 Batch: WG972303-1										
Mercury, Total	0.02	J	mg/kg	0.08	0.02	1	01/25/17 09:00	01/27/17 13:50	1,7471B	JH

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

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
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 02-03,05 Batch: WG972786-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	01/26/17 12:06	01/27/17 10:57	1,7470A	JH

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 01/25/17 05:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 02-03,05 Batch: WG973208-1										
Arsenic, TCLP	ND		mg/l	1.0	0.02	1	01/27/17 16:28	01/27/17 19:12	1,6010C	AB
Barium, TCLP	ND		mg/l	0.50	0.02	1	01/27/17 16:28	01/27/17 19:12	1,6010C	AB
Cadmium, TCLP	ND		mg/l	0.10	0.01	1	01/27/17 16:28	01/27/17 19:12	1,6010C	AB
Chromium, TCLP	ND		mg/l	0.20	0.02	1	01/27/17 16:28	01/27/17 19:12	1,6010C	AB
Lead, TCLP	ND		mg/l	0.50	0.03	1	01/27/17 16:28	01/27/17 19:12	1,6010C	AB
Selenium, TCLP	ND		mg/l	0.50	0.04	1	01/27/17 16:28	01/27/17 19:12	1,6010C	AB
Silver, TCLP	ND		mg/l	0.10	0.03	1	01/27/17 16:28	01/27/17 19:12	1,6010C	AB

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 01/25/17 05:13

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1702181

Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03,05 Batch: WG972233-2 SRM Lot Number: D091-540								
Aluminum, Total	83		-		52-148	-		
Antimony, Total	154		-		1-200	-		
Arsenic, Total	110		-		80-121	-		
Barium, Total	105		-		84-117	-		
Beryllium, Total	103		-		83-117	-		
Cadmium, Total	105		-		83-117	-		
Calcium, Total	102		-		81-118	-		
Chromium, Total	105		-		80-119	-		
Cobalt, Total	104		-		84-115	-		
Copper, Total	104		-		82-117	-		
Iron, Total	120		-		47-154	-		
Lead, Total	103		-		82-118	-		
Magnesium, Total	95		-		77-123	-		
Manganese, Total	100		-		82-118	-		
Nickel, Total	101		-		83-117	-		
Potassium, Total	96		-		72-128	-		
Selenium, Total	101		-		79-121	-		
Silver, Total	121		-		75-124	-		
Sodium, Total	101		-		73-126	-		
Thallium, Total	99		-		80-121	-		
Vanadium, Total	104		-		78-122	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03,05 Batch: WG972233-2 SRM Lot Number: D091-540					
Zinc, Total	103	-	82-118	-	
Total Metals - Mansfield Lab Associated sample(s): 02-03,05 Batch: WG972303-2 SRM Lot Number: D091-540					
Mercury, Total	106	-	72-128	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02-03,05 Batch: WG972786-2					
Mercury, TCLP	105	-	80-120	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02-03,05 Batch: WG973208-2					
Arsenic, TCLP	92	-	75-125	-	20
Barium, TCLP	90	-	75-125	-	20
Cadmium, TCLP	90	-	75-125	-	20
Chromium, TCLP	85	-	75-125	-	20
Lead, TCLP	88	-	75-125	-	20
Selenium, TCLP	92	-	75-125	-	20
Silver, TCLP	88	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03,05 QC Batch ID: WG972233-3 QC Sample: L1702102-42 Client ID: MS Sample												
Aluminum, Total	14000	204	15000	**491**	Q	-	-		75-125	-		20
Antimony, Total	3100	50.9	2600	**0**	Q	-	-		75-125	-		20
Arsenic, Total	14.	12.2	28	114		-	-		75-125	-		20
Barium, Total	470	204	750	**137**	Q	-	-		75-125	-		20
Beryllium, Total	0.49	5.09	3.7	**63**	Q	-	-		75-125	-		20
Cadmium, Total	2.5	5.2	6.6	79		-	-		75-125	-		20
Calcium, Total	28000	1020	35000	**687**	Q	-	-		75-125	-		20
Chromium, Total	140	20.4	120	**0**	Q	-	-		75-125	-		20
Cobalt, Total	7.5	50.9	39	**62**	Q	-	-		75-125	-		20
Copper, Total	350	25.5	400	**196**	Q	-	-		75-125	-		20
Iron, Total	37000	102	41000	**3930**	Q	-	-		75-125	-		20
Lead, Total	3700	52	4800	**2120**	Q	-	-		75-125	-		20
Magnesium, Total	10000	1020	9900	**0**	Q	-	-		75-125	-		20
Manganese, Total	1200	50.9	1400	**393**	Q	-	-		75-125	-		20
Nickel, Total	62.	50.9	82	**39**	Q	-	-		75-125	-		20
Potassium, Total	930	1020	1800	85		-	-		75-125	-		20
Selenium, Total	0.27J	12.2	8.5	**70**	Q	-	-		75-125	-		20
Silver, Total	0.58	30.6	25	80		-	-		75-125	-		20
Sodium, Total	930	1020	1700	76		-	-		75-125	-		20
Thallium, Total	ND	12.2	5.9	**48**	Q	-	-		75-125	-		20
Vanadium, Total	65.	50.9	110	88		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03,05 QC Batch ID: WG972233-3 QC Sample: L1702102-42 Client ID: MS Sample										
Zinc, Total	1800	50.9	2000	**393**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 02-03,05 QC Batch ID: WG972303-3 QC Sample: L1702088-01 Client ID: MS Sample										
Mercury, Total	0.06J	0.138	0.24	**173**	Q	-	-	80-120	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02-03,05 QC Batch ID: WG972786-3 QC Sample: L1702292-17 Client ID: MS Sample										
Mercury, TCLP	ND	0.025	0.0251	100		-	-	80-120	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02-03,05 QC Batch ID: WG973208-3 QC Sample: L1702181-02 Client ID: WC_COMP_B_0-6										
Arsenic, TCLP	ND	1.2	1.2	100		-	-	75-125	-	20
Barium, TCLP	0.46J	20	18	90		-	-	75-125	-	20
Cadmium, TCLP	0.01J	0.51	0.47	92		-	-	75-125	-	20
Chromium, TCLP	ND	2	1.7	85		-	-	75-125	-	20
Lead, TCLP	0.16J	5.1	4.6	90		-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.1	92		-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.44	88		-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03,05 QC Batch ID: WG972233-4 QC Sample: L1702102-42 Client ID: DUP Sample						
Chromium, Total	140	120	mg/kg	15		20
Total Metals - Mansfield Lab Associated sample(s): 02-03,05 QC Batch ID: WG972233-4 QC Sample: L1702102-42 Client ID: DUP Sample						
Antimony, Total	3100	4300	mg/kg	**32**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 02-03,05 QC Batch ID: WG972303-4 QC Sample: L1702088-01 Client ID: DUP Sample						
Mercury, Total	0.06J	0.04J	mg/kg	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02-03,05 QC Batch ID: WG972786-4 QC Sample: L1702292-17 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02-03,05 QC Batch ID: WG973208-4 QC Sample: L1702181-02 Client ID: WC_COMP_B_0-6						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	0.46J	0.48J	mg/l	NC		20
Cadmium, TCLP	0.01J	0.01J	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	0.16J	0.18J	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-02
Client ID: WC_COMP_B_0-6
Sample Location: BROOKLYN, NY
Matrix: Soil
Date Collected: 01/23/17 11:35
Date Received: 01/23/17
Field Prep: Not Specified

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	01/24/17 10:16	1,1030	AB

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-03
Client ID: WC_COMP_B_6-12
Sample Location: BROOKLYN, NY
Matrix: Soil
Date Collected: 01/23/17 11:45
Date Received: 01/23/17
Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Wet Soil
Particle Size: Medium
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	01/24/17 10:16	1,1030	AB

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-05
Client ID: WC_COMP_A_0-4
Sample Location: BROOKLYN, NY
Matrix: Soil
Date Collected: 01/23/17 12:45
Date Received: 01/23/17
Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Damp Soil
Particle Size: Medium
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	01/24/17 10:16	1,1030	AB

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-01
Client ID: WC03_GRAB_2-3
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 01/23/17 10:25
Date Received: 01/23/17
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	81.1		%	0.100	NA	1	-	01/24/17 11:55	121,2540G	RI

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-02
Client ID: WC_COMP_B_0-6
Sample Location: BROOKLYN, NY
Matrix: Soil
Date Collected: 01/23/17 11:35
Date Received: 01/23/17
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	89.3		%	0.100	NA	1	-	01/24/17 01:32	121,2540G	VB
Cyanide, Total	ND		mg/kg	1.1	0.18	1	01/25/17 11:15	01/25/17 15:13	1,9010C/9012B	JO
pH (H)	8.6		SU	-	NA	1	-	01/24/17 03:42	1,9045D	VB
Chromium, Hexavalent	ND		mg/kg	0.90	0.18	1	01/25/17 11:19	01/26/17 22:22	1,7196A	WR
Cyanide, Reactive	ND		mg/kg	10	10.	1	01/24/17 20:05	01/24/17 21:35	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	10.	1	01/24/17 20:05	01/24/17 21:28	1,7.3	TL

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-03
Client ID: WC_COMP_B_6-12
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 01/23/17 11:45
Date Received: 01/23/17
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	70.8		%	0.100	NA	1	-	01/24/17 01:32	121,2540G	VB
Cyanide, Total	ND		mg/kg	1.3	0.22	1	01/25/17 11:15	01/25/17 15:14	1,9010C/9012B	JO
pH (H)	7.9		SU	-	NA	1	-	01/24/17 03:42	1,9045D	VB
Chromium, Hexavalent	ND		mg/kg	1.1	0.22	1	01/25/17 11:19	01/26/17 22:23	1,7196A	WR
Cyanide, Reactive	ND		mg/kg	10	10.	1	01/24/17 20:05	01/24/17 21:35	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	10.	1	01/24/17 20:05	01/24/17 21:28	1,7.3	TL

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-04
Client ID: WC04_GRAB_11-12
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 01/23/17 11:30
Date Received: 01/23/17
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	69.1		%	0.100	NA	1	-	01/24/17 11:55	121,2540G	RI

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-05
Client ID: WC_COMP_A_0-4
Sample Location: BROOKLYN, NY
Matrix: Soil
Date Collected: 01/23/17 12:45
Date Received: 01/23/17
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	91.6		%	0.100	NA	1	-	01/24/17 01:32	121,2540G	VB
Cyanide, Total	ND		mg/kg	1.0	0.17	1	01/25/17 11:15	01/25/17 15:23	1,9010C/9012B	JO
pH (H)	8.0		SU	-	NA	1	-	01/24/17 03:42	1,9045D	VB
Chromium, Hexavalent	ND		mg/kg	0.87	0.17	1	01/25/17 11:19	01/26/17 22:23	1,7196A	WR
Cyanide, Reactive	ND		mg/kg	10	10.	1	01/24/17 20:05	01/24/17 21:36	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	10.	1	01/24/17 20:05	01/24/17 21:28	1,7.3	TL

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

SAMPLE RESULTS

Lab ID: L1702181-06
Client ID: WC01_GRAB_2-3
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 01/23/17 12:30
Date Received: 01/23/17
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	89.1		%	0.100	NA	1	-	01/24/17 11:55	121,2540G	RI

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1702181
Report Date: 01/30/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02-03,05 Batch: WG972201-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	01/24/17 20:05	01/24/17 21:34	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 02-03,05 Batch: WG972203-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	01/24/17 20:05	01/24/17 21:27	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 02-03,05 Batch: WG972419-1										
Cyanide, Total	ND		mg/kg	0.84	0.14	1	01/25/17 11:15	01/25/17 15:08	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 02-03,05 Batch: WG972451-1										
Chromium, Hexavalent	ND		mg/kg	0.80	0.16	1	01/25/17 11:19	01/26/17 22:07	1,7196A	WR

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-03,05 Batch: WG971964-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 02-03,05 Batch: WG972201-2								
Cyanide, Reactive	78		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 02-03,05 Batch: WG972203-2								
Sulfide, Reactive	101		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 02-03,05 Batch: WG972419-2 WG972419-3								
Cyanide, Total	108		88		80-120	22		35
General Chemistry - Westborough Lab Associated sample(s): 02-03,05 Batch: WG972451-2								
Chromium, Hexavalent	96		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-03,05 QC Batch ID: WG972419-4 WG972419-5 QC Sample: L1702064-01 Client ID: MS Sample												
Cyanide, Total	ND	17	17	100		17	100		65-135	0		35
General Chemistry - Westborough Lab Associated sample(s): 02-03,05 QC Batch ID: WG972451-4 QC Sample: L1702181-05 Client ID: WC_COMP_A_0-4												
Chromium, Hexavalent	ND	1450	1400	96		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-03,05 QC Batch ID: WG971962-1 QC Sample: L1702181-02 Client ID: WC_COMP_B_0-6						
Solids, Total	89.3	89.7	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 02-03,05 QC Batch ID: WG971964-2 QC Sample: L1702174-01 Client ID: DUP Sample						
pH	7.5	7.3	SU	3		5
General Chemistry - Westborough Lab Associated sample(s): 01,04,06 QC Batch ID: WG972032-1 QC Sample: L1702179-01 Client ID: DUP Sample						
Solids, Total	88.3	88.5	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 02-03,05 QC Batch ID: WG972201-3 QC Sample: L1702225-01 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 02-03,05 QC Batch ID: WG972203-3 QC Sample: L1702225-01 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 02-03,05 QC Batch ID: WG972451-6 QC Sample: L1702181-05 Client ID: WC_COMP_A_0-4						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 01/24/2017 01:59

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1702181-01A	Vial MeOH preserved	A	N/A	2.5	Y	Absent	NYTCL-8260HLW(14)
L1702181-01B	Vial water preserved	A	N/A	2.5	Y	Absent	NYTCL-8260HLW(14)
L1702181-01C	Vial water preserved	A	N/A	2.5	Y	Absent	NYTCL-8260HLW(14)
L1702181-01D	Plastic 2oz unpreserved for TS	A	N/A	2.5	Y	Absent	TS(7)
L1702181-01E	Vial Large Septa unpreserved (4o	A	N/A	2.5	Y	Absent	TPH-GRO(14)
L1702181-01E9	Vial MeOH preserved split	A	N/A	2.5	Y	Absent	TPH-GRO(14)
L1702181-01F	Glass 60mL/2oz unpreserved	A	N/A	2.5	Y	Absent	TPH-DRO-D(14)
L1702181-02A	Glass 120ml/4oz unpreserved	A	N/A	2.5	Y	Absent	IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1702181-02B	Glass 500ml/16oz unpreserved	A	N/A	2.5	Y	Absent	IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1702181-02C	Metals Only - Glass 60mL/2oz unp	A	N/A	2.5	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1702181-02X	Plastic 120ml HNO3 preserved Ext	A	<2	2.5	Y	Absent	CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1702181-02X9	Tumble Vessel	A	N/A	2.5	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1702181-03A	Glass 120ml/4oz unpreserved	A	N/A	2.5	Y	Absent	IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1702181-03B	Glass 500ml/16oz unpreserved	A	N/A	2.5	Y	Absent	IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1702181-03C	Metals Only - Glass 60mL/2oz unp	A	N/A	2.5	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1702181-03X	Plastic 120ml HNO3 preserved Ext	A	<2	2.5	Y	Absent	CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1702181-03X9	Tumble Vessel	A	N/A	2.5	Y	Absent	-
L1702181-04A	Vial MeOH preserved	A	N/A	2.5	Y	Absent	NYTCL-8260HLW(14)
L1702181-04B	Vial water preserved	A	N/A	2.5	Y	Absent	NYTCL-8260HLW(14)
L1702181-04C	Vial water preserved	A	N/A	2.5	Y	Absent	NYTCL-8260HLW(14)
L1702181-04D	Plastic 2oz unpreserved for TS	A	N/A	2.5	Y	Absent	TS(7)
L1702181-04E	Vial Large Septa unpreserved (4o	A	N/A	2.5	Y	Absent	TPH-GRO(14)
L1702181-04E9	Vial MeOH preserved split	A	N/A	2.5	Y	Absent	TPH-GRO(14)
L1702181-04F	Glass 60mL/2oz unpreserved	A	N/A	2.5	Y	Absent	TPH-DRO-D(14)
L1702181-05A	Glass 120ml/4oz unpreserved	A	N/A	2.5	Y	Absent	IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1702181
Report Date: 01/30/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1702181-05B	Glass 500ml/16oz unpreserved	A	N/A	2.5	Y	Absent	IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14),REACTCN(14),HEXCR-7196(30)
L1702181-05C	Metals Only - Glass 60mL/2oz unp	A	N/A	2.5	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1702181-05X	Plastic 120ml HNO3 preserved Ext	A	<2	2.5	Y	Absent	CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1702181-05X9	Tumble Vessel	A	N/A	2.5	Y	Absent	-
L1702181-06A	Vial MeOH preserved	A	N/A	2.5	Y	Absent	NYTCL-8260HLW(14)
L1702181-06B	Vial water preserved	A	N/A	2.5	Y	Absent	NYTCL-8260HLW(14)
L1702181-06C	Vial water preserved	A	N/A	2.5	Y	Absent	NYTCL-8260HLW(14)
L1702181-06D	Plastic 2oz unpreserved for TS	A	N/A	2.5	Y	Absent	TS(7)
L1702181-06E	Vial Large Septa unpreserved (4o	A	N/A	2.5	Y	Absent	TPH-GRO(14)
L1702181-06E9	Vial MeOH preserved split	A	N/A	2.5	Y	Absent	TPH-GRO(14)
L1702181-06F	Glass 60mL/2oz unpreserved	A	N/A	2.5	Y	Absent	TPH-DRO-D(14)
L1702181-07A	Vial HCl preserved	A	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1702181-07B	Vial HCl preserved	A	N/A	2.5	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	450 UNION STREET	**Lab Number:**	L1702181
Project Number:	170301202	**Report Date:**	01/30/17

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers

Project Name:	450 UNION STREET	**Lab Number:**	L1702181
Project Number:	170301202	**Report Date:**	01/30/17

Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	450 UNION STREET	**Lab Number:**	L1702181
Project Number:	170301202	**Report Date:**	01/30/17

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page of

Date Rec'd in Lab: 1/23/17

ALPHA Job #: L1702181

Client Information
Client: Langan Engineering
Address: 360 W 31st St, NY NY 10001 8th Floor
Phone: 212 479 5400
Fax: 212 479 5444
Email: ATashji@langan.com

Project Information
Project Name: 450 Union Street
Project Location: Brooklyn, NY
Project # 170301202
(Use Project name as Project #) ☐
Project Manager: Nicola Rice
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☑ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☑ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☑ NJ ☑ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	GRO/DRO	SVOCs, HERB, PCBs	Pesticides + total metals	TCLP metals, cyanide	RCRA characteristics: Reactivity,	Ignitability, corrosivity		Sample Specific Comments	Total Bottle
02181-01	WC03-GRAB-2-3	1/23/17	10:25	S	AS	X	X								
-02	WC_COMP_B_0-6		11:35					X	X	X	X	X			
-03	WC_COMP_B_6-12		11:45					X	X	X	X	X			
-04	WC04-GRAB-11-12		11:30			X	X								
-05	WC_COMP_A_0-4		12:45					X	X	X	X	X			
-06	WC01-GRAB-2-3		12:30			X	X								
-07	TB01_012317					X									

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
AGCES	1/23/17 13:15	Rd Jayson AAL	1/23/17 13:15
Rd Jayson	1/23/17 17:40	Jon Pandina	1/23/17 1815
Jon Pandina	1-23-17 2320		1/23/17 23:20

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

APPENDIX C

UNFILTERED AND FILTERED GROUNDWATER SAMPLE LABORATORY REPORT

ANALYTICAL REPORT

Lab Number:	L1705424
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Nicole Rice
Phone:	(212) 479-5400
Project Name:	450 UNION STREET
Project Number:	170301202
Report Date:	02/28/17

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), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1705424
Report Date: 02/28/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1705424-01	MW14_022017	WATER	450 UNION STREET, BROOKLYN, NY	02/20/17 12:57	02/21/17
L1705424-02	MW14_022017_FF	WATER	450 UNION STREET, BROOKLYN, NY	02/20/17 12:57	02/21/17
L1705424-03	MW16_022017	WATER	450 UNION STREET, BROOKLYN, NY	02/20/17 16:54	02/21/17
L1705424-04	MW16_022017_FF	WATER	450 UNION STREET, BROOKLYN, NY	02/20/17 16:54	02/21/17
L1705424-05	MW17_022017	WATER	450 UNION STREET, BROOKLYN, NY	02/20/17 11:10	02/21/17
L1705424-06	MW17_022017_FF	WATER	450 UNION STREET, BROOKLYN, NY	02/20/17 11:10	02/21/17

Project Name:	450 UNION STREET	**Lab Number:**	L1705424
Project Number:	170301202	**Report Date:**	02/28/17

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	450 UNION STREET	**Lab Number:**	L1705424
Project Number:	170301202	**Report Date:**	02/28/17

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.

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: Melissa Cripps

Title: Technical Director/Representative Date: 02/28/17

ORGANICS

SEMIVOLATILES

Project Name: 450 UNION STREET **Lab Number:** L1705424

Project Number: 170301202 **Report Date:** 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-01
Client ID: MW14_022017
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 02/25/17 15:01
Analyst: CB

Date Collected: 02/20/17 12:57
Date Received: 02/21/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 02/23/17 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1

Project Name: 450 UNION STREET **Lab Number:** L1705424

Project Number: 170301202 **Report Date:** 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-01 Date Collected: 02/20/17 12:57

Client ID: MW14_022017 Date Received: 02/21/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	0.76	J	ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	93		41-149

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1705424
Report Date: 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-01
Client ID: MW14_022017
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 02/25/17 13:51
Analyst: KV

Date Collected: 02/20/17 12:57
Date Received: 02/21/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 02/23/17 22:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.42		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.91		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.18	J	ug/l	0.20	0.04	1
Benzo(a)anthracene	0.24		ug/l	0.20	0.02	1
Benzo(a)pyrene	0.20		ug/l	0.20	0.04	1
Benzo(b)fluoranthene	0.25		ug/l	0.20	0.02	1
Benzo(k)fluoranthene	0.10	J	ug/l	0.20	0.04	1
Chrysene	0.23		ug/l	0.20	0.04	1
Acenaphthylene	0.19	J	ug/l	0.20	0.04	1
Anthracene	0.19	J	ug/l	0.20	0.04	1
Benzo(ghi)perylene	0.10	J	ug/l	0.20	0.04	1
Fluorene	0.59		ug/l	0.20	0.04	1
Phenanthrene	0.83		ug/l	0.20	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.04	1
Indeno(1,2,3-cd)pyrene	0.12	J	ug/l	0.20	0.04	1
Pyrene	0.74		ug/l	0.20	0.04	1
2-Methylnaphthalene	ND		ug/l	0.20	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 450 UNION STREET **Lab Number:** L1705424

Project Number: 170301202 **Report Date:** 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-01 Date Collected: 02/20/17 12:57

Client ID: MW14_022017 Date Received: 02/21/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	73		10-120
4-Terphenyl-d14	69		41-149

Project Name: 450 UNION STREET **Lab Number:** L1705424

Project Number: 170301202 **Report Date:** 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-02
Client ID: MW14_022017_FF
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 02/25/17 15:26
Analyst: CB

Date Collected: 02/20/17 12:57
Date Received: 02/21/17
Field Prep: Field Filtered (svoc)
Extraction Method: EPA 3510C
Extraction Date: 02/23/17 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1

Project Name: 450 UNION STREET **Lab Number:** L1705424

Project Number: 170301202 **Report Date:** 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-02 Date Collected: 02/20/17 12:57

Client ID: MW14_022017_FF Date Received: 02/21/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Field Filtered (svoc)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	89		41-149

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1705424
Report Date: 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-02
Client ID: MW14_022017_FF
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 02/25/17 14:17
Analyst: KV

Date Collected: 02/20/17 12:57
Date Received: 02/21/17
Field Prep: Field Filtered (svoc)
Extraction Method: EPA 3510C
Extraction Date: 02/23/17 22:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.20	0.04	1
Benzo(a)anthracene	ND		ug/l	0.20	0.02	1
Benzo(a)pyrene	ND		ug/l	0.20	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.04	1
Chrysene	ND		ug/l	0.20	0.04	1
Acenaphthylene	ND		ug/l	0.20	0.04	1
Anthracene	ND		ug/l	0.20	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.04	1
Fluorene	ND		ug/l	0.20	0.04	1
Phenanthrene	ND		ug/l	0.20	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.20	0.04	1
Pyrene	ND		ug/l	0.20	0.04	1
2-Methylnaphthalene	ND		ug/l	0.20	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 450 UNION STREET **Lab Number:** L1705424

Project Number: 170301202 **Report Date:** 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-02 Date Collected: 02/20/17 12:57

Client ID: MW14_022017_FF Date Received: 02/21/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Field Filtered (svoc)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	33		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	70		41-149

Project Name: 450 UNION STREET **Lab Number:** L1705424

Project Number: 170301202 **Report Date:** 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-03
Client ID: MW16_022017
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 02/25/17 15:51
Analyst: CB

Date Collected: 02/20/17 16:54
Date Received: 02/21/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 02/23/17 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	1.9	J	ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1

Project Name: 450 UNION STREET **Lab Number:** L1705424

Project Number: 170301202 **Report Date:** 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-03 Date Collected: 02/20/17 16:54

Client ID: MW16_022017 Date Received: 02/21/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	2.4		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	112		23-120
2-Fluorobiphenyl	102		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	114		41-149

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1705424
Report Date: 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-03
Client ID: MW16_022017
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 02/24/17 16:58
Analyst: DV

Date Collected: 02/20/17 16:54
Date Received: 02/21/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 02/23/17 22:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	1.2		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	2.4		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	1.9		ug/l	0.20	0.04	1
Benzo(a)anthracene	0.74		ug/l	0.20	0.02	1
Benzo(a)pyrene	0.64		ug/l	0.20	0.04	1
Benzo(b)fluoranthene	0.81		ug/l	0.20	0.02	1
Benzo(k)fluoranthene	0.32		ug/l	0.20	0.04	1
Chrysene	0.78		ug/l	0.20	0.04	1
Acenaphthylene	0.69		ug/l	0.20	0.04	1
Anthracene	0.80		ug/l	0.20	0.04	1
Benzo(ghi)perylene	0.34		ug/l	0.20	0.04	1
Fluorene	1.7		ug/l	0.20	0.04	1
Phenanthrene	3.3		ug/l	0.20	0.02	1
Dibenzo(a,h)anthracene	0.10	J	ug/l	0.20	0.04	1
Indeno(1,2,3-cd)pyrene	0.38		ug/l	0.20	0.04	1
Pyrene	1.8		ug/l	0.20	0.04	1
2-Methylnaphthalene	0.18	J	ug/l	0.20	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 450 UNION STREET **Lab Number:** L1705424

Project Number: 170301202 **Report Date:** 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-03 Date Collected: 02/20/17 16:54

Client ID: MW16_022017 Date Received: 02/21/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	76		10-120
4-Terphenyl-d14	69		41-149

Project Name: 450 UNION STREET **Lab Number:** L1705424

Project Number: 170301202 **Report Date:** 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-04
Client ID: MW16_022017_FF
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 02/25/17 16:17
Analyst: CB

Date Collected: 02/20/17 16:54
Date Received: 02/21/17
Field Prep: Field Filtered (svoc)
Extraction Method: EPA 3510C
Extraction Date: 02/23/17 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1

Project Name: 450 UNION STREET **Lab Number:** L1705424

Project Number: 170301202 **Report Date:** 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-04 Date Collected: 02/20/17 16:54

Client ID: MW16_022017_FF Date Received: 02/21/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Field Filtered (svoc)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	93		10-120
4-Terphenyl-d14	95		41-149

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1705424
Report Date: 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-04
Client ID: MW16_022017_FF
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 02/24/17 14:37
Analyst: DV

Date Collected: 02/20/17 16:54
Date Received: 02/21/17
Field Prep: Field Filtered (svoc)
Extraction Method: EPA 3510C
Extraction Date: 02/23/17 22:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.20	0.04	1
Benzo(a)anthracene	ND		ug/l	0.20	0.02	1
Benzo(a)pyrene	ND		ug/l	0.20	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.04	1
Chrysene	ND		ug/l	0.20	0.04	1
Acenaphthylene	ND		ug/l	0.20	0.04	1
Anthracene	ND		ug/l	0.20	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.04	1
Fluorene	ND		ug/l	0.20	0.04	1
Phenanthrene	ND		ug/l	0.20	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.20	0.04	1
Pyrene	ND		ug/l	0.20	0.04	1
2-Methylnaphthalene	ND		ug/l	0.20	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 450 UNION STREET **Lab Number:** L1705424

Project Number: 170301202 **Report Date:** 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-04 Date Collected: 02/20/17 16:54

Client ID: MW16_022017_FF Date Received: 02/21/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Field Filtered (svoc)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		21-120
Phenol-d6	14		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	63		41-149

Project Name: 450 UNION STREET **Lab Number:** L1705424

Project Number: 170301202 **Report Date:** 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-05
Client ID: MW17_022017
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 02/25/17 16:42
Analyst: CB

Date Collected: 02/20/17 11:10
Date Received: 02/21/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 02/23/17 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1

Project Name: 450 UNION STREET **Lab Number:** L1705424

Project Number: 170301202 **Report Date:** 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-05 Date Collected: 02/20/17 11:10

Client ID: MW17_022017 Date Received: 02/21/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	87		15-120
2,4,6-Tribromophenol	97		10-120
4-Terphenyl-d14	103		41-149

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1705424
Report Date: 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-05
Client ID: MW17_022017
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 02/24/17 15:05
Analyst: DV

Date Collected: 02/20/17 11:10
Date Received: 02/21/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 02/23/17 22:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.05	J	ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.20	0.04	1
Benzo(a)anthracene	0.03	J	ug/l	0.20	0.02	1
Benzo(a)pyrene	ND		ug/l	0.20	0.04	1
Benzo(b)fluoranthene	0.02	J	ug/l	0.20	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.04	1
Chrysene	ND		ug/l	0.20	0.04	1
Acenaphthylene	ND		ug/l	0.20	0.04	1
Anthracene	ND		ug/l	0.20	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.04	1
Fluorene	ND		ug/l	0.20	0.04	1
Phenanthrene	0.02	J	ug/l	0.20	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.20	0.04	1
Pyrene	0.10	J	ug/l	0.20	0.04	1
2-Methylnaphthalene	ND		ug/l	0.20	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 450 UNION STREET **Lab Number:** L1705424

Project Number: 170301202 **Report Date:** 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-05 Date Collected: 02/20/17 11:10

Client ID: MW17_022017 Date Received: 02/21/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	88		10-120
4-Terphenyl-d14	80		41-149

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1705424
Report Date: 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-06
Client ID: MW17_022017_FF
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 02/25/17 17:08
Analyst: CB

Date Collected: 02/20/17 11:10
Date Received: 02/21/17
Field Prep: Field Filtered (SVOC)
Extraction Method: EPA 3510C
Extraction Date: 02/23/17 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1

Project Name: 450 UNION STREET **Lab Number:** L1705424

Project Number: 170301202 **Report Date:** 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-06 Date Collected: 02/20/17 11:10

Client ID: MW17_022017_FF Date Received: 02/21/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Field Filtered (SVOC)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	91		15-120
2,4,6-Tribromophenol	98		10-120
4-Terphenyl-d14	103		41-149

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1705424
Report Date: 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-06
Client ID: MW17_022017_FF
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 02/24/17 15:33
Analyst: DV

Date Collected: 02/20/17 11:10
Date Received: 02/21/17
Field Prep: Field Filtered (SVOC)
Extraction Method: EPA 3510C
Extraction Date: 02/23/17 22:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.06	J	ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.20	0.04	1
Benzo(a)anthracene	ND		ug/l	0.20	0.02	1
Benzo(a)pyrene	ND		ug/l	0.20	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.04	1
Chrysene	ND		ug/l	0.20	0.04	1
Acenaphthylene	ND		ug/l	0.20	0.04	1
Anthracene	ND		ug/l	0.20	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.04	1
Fluorene	ND		ug/l	0.20	0.04	1
Phenanthrene	ND		ug/l	0.20	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.20	0.04	1
Pyrene	ND		ug/l	0.20	0.04	1
2-Methylnaphthalene	ND		ug/l	0.20	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 450 UNION STREET **Lab Number:** L1705424

Project Number: 170301202 **Report Date:** 02/28/17

SAMPLE RESULTS

Lab ID: L1705424-06 Date Collected: 02/20/17 11:10

Client ID: MW17_022017_FF Date Received: 02/21/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Field Filtered (SVOC)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	10		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	93		10-120
4-Terphenyl-d14	74		41-149

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1705424
Report Date: 02/28/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/25/17 11:38
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 02/23/17 22:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG980565-1					
Acenaphthene	ND		ug/l	2.0	0.59
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66
Hexachlorobenzene	ND		ug/l	2.0	0.58
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67
2-Chloronaphthalene	ND		ug/l	2.0	0.64
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1
Fluoranthene	ND		ug/l	2.0	0.57
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63
Hexachlorobutadiene	ND		ug/l	2.0	0.72
Hexachlorocyclopentadiene	ND		ug/l	20	7.8
Hexachloroethane	ND		ug/l	2.0	0.68
Isophorone	ND		ug/l	5.0	0.60
Naphthalene	ND		ug/l	2.0	0.68
Nitrobenzene	ND		ug/l	2.0	0.75
NDPA/DPA	ND		ug/l	2.0	0.64
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70
Bis(2-ethylhexyl)phthalate	1.7	J	ug/l	3.0	0.91
Butyl benzyl phthalate	ND		ug/l	5.0	1.3
Di-n-butylphthalate	ND		ug/l	5.0	0.69
Di-n-octylphthalate	ND		ug/l	5.0	1.1
Diethyl phthalate	ND		ug/l	5.0	0.63

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1705424
Report Date: 02/28/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/25/17 11:38
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 02/23/17 22:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG980565-1					
Dimethyl phthalate	ND		ug/l	5.0	0.65
Benzo(a)anthracene	ND		ug/l	2.0	0.61
Benzo(a)pyrene	ND		ug/l	2.0	0.54
Benzo(b)fluoranthene	ND		ug/l	2.0	0.64
Benzo(k)fluoranthene	ND		ug/l	2.0	0.60
Chrysene	ND		ug/l	2.0	0.54
Acenaphthylene	ND		ug/l	2.0	0.66
Anthracene	ND		ug/l	2.0	0.64
Benzo(ghi)perylene	ND		ug/l	2.0	0.61
Fluorene	ND		ug/l	2.0	0.62
Phenanthrene	ND		ug/l	2.0	0.61
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.55
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.71
Pyrene	ND		ug/l	2.0	0.57
Biphenyl	ND		ug/l	2.0	0.76
4-Chloroaniline	ND		ug/l	5.0	0.63
2-Nitroaniline	ND		ug/l	5.0	1.1
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.3
Dibenzofuran	ND		ug/l	2.0	0.66
2-Methylnaphthalene	ND		ug/l	2.0	0.72
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67
Acetophenone	ND		ug/l	5.0	0.85
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68
p-Chloro-m-cresol	ND		ug/l	2.0	0.62
2-Chlorophenol	ND		ug/l	2.0	0.63
2,4-Dichlorophenol	ND		ug/l	5.0	0.77
2,4-Dimethylphenol	ND		ug/l	5.0	1.6
2-Nitrophenol	ND		ug/l	10	1.5

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1705424
Report Date: 02/28/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/25/17 11:38
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 02/23/17 22:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG980565-1					
4-Nitrophenol	ND		ug/l	10	1.8
2,4-Dinitrophenol	ND		ug/l	20	5.5
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1
Pentachlorophenol	ND		ug/l	10	3.4
Phenol	ND		ug/l	5.0	1.9
2-Methylphenol	ND		ug/l	5.0	1.0
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72
Benzoic Acid	ND		ug/l	50	13.
Benzyl Alcohol	ND		ug/l	2.0	0.72
Carbazole	ND		ug/l	2.0	0.63

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	87		41-149

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1705424
Report Date: 02/28/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 02/25/17 11:39
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 02/23/17 22:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-06 Batch: WG980566-1					
Acenaphthene	ND		ug/l	0.10	0.04
2-Chloronaphthalene	ND		ug/l	0.20	0.04
Fluoranthene	ND		ug/l	0.20	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.04
Naphthalene	0.07	J	ug/l	0.20	0.04
Benzo(a)anthracene	ND		ug/l	0.20	0.02
Benzo(a)pyrene	ND		ug/l	0.20	0.04
Benzo(b)fluoranthene	ND		ug/l	0.20	0.02
Benzo(k)fluoranthene	ND		ug/l	0.20	0.04
Chrysene	ND		ug/l	0.20	0.04
Acenaphthylene	ND		ug/l	0.20	0.04
Anthracene	ND		ug/l	0.20	0.04
Benzo(ghi)perylene	ND		ug/l	0.20	0.04
Fluorene	ND		ug/l	0.20	0.04
Phenanthrene	ND		ug/l	0.20	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.20	0.04
Pyrene	ND		ug/l	0.20	0.04
2-Methylnaphthalene	ND		ug/l	0.20	0.05
Pentachlorophenol	ND		ug/l	0.80	0.22
Hexachlorobenzene	ND		ug/l	0.80	0.03
Hexachloroethane	ND		ug/l	0.80	0.03

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1705424
Report Date: 02/28/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 02/25/17 11:39
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 02/23/17 22:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-06 Batch: WG980566-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	51		15-120
2,4,6-Tribromophenol	65		10-120
4-Terphenyl-d14	63		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1705424
Report Date: 02/28/17

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: WG980565-2 WG980565-3								
Acenaphthene	82		84		37-111	2		30
1,2,4-Trichlorobenzene	60		61		39-98	2		30
Hexachlorobenzene	87		91		40-140	4		30
Bis(2-chloroethyl)ether	83		89		40-140	7		30
2-Chloronaphthalene	74		76		40-140	3		30
1,2-Dichlorobenzene	62		63		40-140	2		30
1,3-Dichlorobenzene	59		59		40-140	0		30
1,4-Dichlorobenzene	60		60		36-97	0		30
3,3'-Dichlorobenzidine	94		88		40-140	7		30
2,4-Dinitrotoluene	105		108		48-143	3		30
2,6-Dinitrotoluene	101		106		40-140	5		30
Fluoranthene	97		101		40-140	4		30
4-Chlorophenyl phenyl ether	82		84		40-140	2		30
4-Bromophenyl phenyl ether	85		89		40-140	5		30
Bis(2-chloroisopropyl)ether	80		86		40-140	7		30
Bis(2-chloroethoxy)methane	95		101		40-140	6		30
Hexachlorobutadiene	54		54		40-140	0		30
Hexachlorocyclopentadiene	**29**	Q	**32**	Q	40-140	10		30
Hexachloroethane	60		60		40-140	0		30
Isophorone	103		107		40-140	4		30
Naphthalene	72		74		40-140	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1705424

Report Date: 02/28/17

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: WG980565-2 WG980565-3								
Nitrobenzene	96		101		40-140	5		30
NDPA/DPA	92		95		40-140	3		30
n-Nitrosodi-n-propylamine	97		103		29-132	6		30
Bis(2-ethylhexyl)phthalate	124		130		40-140	5		30
Butyl benzyl phthalate	121		130		40-140	7		30
Di-n-butylphthalate	112		117		40-140	4		30
Di-n-octylphthalate	124		132		40-140	6		30
Diethyl phthalate	98		101		40-140	3		30
Dimethyl phthalate	98		102		40-140	4		30
Benzo(a)anthracene	94		100		40-140	6		30
Benzo(a)pyrene	104		108		40-140	4		30
Benzo(b)fluoranthene	100		102		40-140	2		30
Benzo(k)fluoranthene	98		104		40-140	6		30
Chrysene	95		99		40-140	4		30
Acenaphthylene	83		85		45-123	2		30
Anthracene	95		99		40-140	4		30
Benzo(ghi)perylene	101		105		40-140	4		30
Fluorene	86		88		40-140	2		30
Phenanthrene	91		95		40-140	4		30
Dibenzo(a,h)anthracene	104		107		40-140	3		30
Indeno(1,2,3-cd)pyrene	104		107		40-140	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1705424
Report Date: 02/28/17

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: WG980565-2 WG980565-3								
Pyrene	94		98		26-127	4		30
Biphenyl	81		83		40-140	2		30
4-Chloroaniline	79		90		40-140	13		30
2-Nitroaniline	109		114		52-143	4		30
3-Nitroaniline	91		92		25-145	1		30
4-Nitroaniline	97		105		51-143	8		30
Dibenzofuran	84		85		40-140	1		30
2-Methylnaphthalene	71		72		40-140	1		30
1,2,4,5-Tetrachlorobenzene	69		72		2-134	4		30
Acetophenone	100		107		39-129	7		30
2,4,6-Trichlorophenol	94		99		30-130	5		30
p-Chloro-m-cresol	**109**	Q	**113**	Q	23-97	4		30
2-Chlorophenol	87		96		27-123	10		30
2,4-Dichlorophenol	96		102		30-130	6		30
2,4-Dimethylphenol	94		107		30-130	13		30
2-Nitrophenol	104		112		30-130	7		30
4-Nitrophenol	67		71		10-80	6		30
2,4-Dinitrophenol	93		102		20-130	9		30
4,6-Dinitro-o-cresol	99		101		20-164	2		30
Pentachlorophenol	77		84		9-103	9		30
Phenol	52		52		12-110	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1705424
Report Date: 02/28/17

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: WG980565-2 WG980565-3								
2-Methylphenol	87		96		30-130	10		30
3-Methylphenol/4-Methylphenol	91		100		30-130	9		30
2,4,5-Trichlorophenol	101		103		30-130	2		30
Benzoic Acid	31		50		10-164	**47**	Q	30
Benzyl Alcohol	95		104		26-116	9		30
Carbazole	101		105		55-144	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		75		21-120
Phenol-d6	49		56		10-120
Nitrobenzene-d5	102		111		23-120
2-Fluorobiphenyl	83		86		15-120
2,4,6-Tribromophenol	98		104		10-120
4-Terphenyl-d14	98		105		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1705424

Report Date: 02/28/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-06 Batch: WG980566-2 WG980566-3								
Acenaphthene	62		60		37-111	3		40
2-Chloronaphthalene	68		67		40-140	1		40
Fluoranthene	75		72		40-140	4		40
Hexachlorobutadiene	55		53		40-140	4		40
Naphthalene	65		64		40-140	2		40
Benzo(a)anthracene	71		69		40-140	3		40
Benzo(a)pyrene	76		73		40-140	4		40
Benzo(b)fluoranthene	75		72		40-140	4		40
Benzo(k)fluoranthene	73		69		40-140	6		40
Chrysene	65		62		40-140	5		40
Acenaphthylene	77		75		40-140	3		40
Anthracene	72		69		40-140	4		40
Benzo(ghi)perylene	75		72		40-140	4		40
Fluorene	70		67		40-140	4		40
Phenanthrene	64		62		40-140	3		40
Dibenzo(a,h)anthracene	77		73		40-140	5		40
Indeno(1,2,3-cd)pyrene	79		76		40-140	4		40
Pyrene	74		71		26-127	4		40
2-Methylnaphthalene	68		67		40-140	1		40
Pentachlorophenol	68		66		9-103	3		40
Hexachlorobenzene	64		61		40-140	5		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1705424
Report Date: 02/28/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-06 Batch: WG980566-2 WG980566-3								
Hexachloroethane	58		57		40-140	2		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	47		49		21-120
Phenol-d6	37		37		10-120
Nitrobenzene-d5	78		77		23-120
2-Fluorobiphenyl	65		64		15-120
2,4,6-Tribromophenol	80		82		10-120
4-Terphenyl-d14	76		72		41-149

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1705424
Report Date: 02/28/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1705424-01A	Amber 1000ml unpreserved	A	7	2.0	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1705424-02A	Amber 1000ml unpreserved	A	7	2.0	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1705424-03A	Amber 1000ml unpreserved	A	7	2.0	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1705424-04A	Amber 1000ml unpreserved	A	7	2.0	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1705424-05A	Amber 1000ml unpreserved	A	7	2.0	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1705424-06A	Amber 1000ml unpreserved	A	7	2.0	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)

*Values in parentheses indicate holding time in days

Project Name:	450 UNION STREET	**Lab Number:**	L1705424
Project Number:	170301202	**Report Date:**	02/28/17

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers

Project Name:	450 UNION STREET	**Lab Number:**	L1705424
Project Number:	170301202	**Report Date:**	02/28/17

Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	450 UNION STREET	**Lab Number:**	L1705424
Project Number:	170301202	**Report Date:**	02/28/17

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 2/21/17

ALPHA Job #: L1705424

Client Information
Client: Langan Engineering
Address: 360 W 31st Street, Manhattan, NY
Phone: 212-479-5400
Fax:
Email: nrice@langan.com

Project Information
Project Name: 450 Union Street
Project Location: 450 Union Street, Brooklyn, NY
Project # 170301202
(Use Project name as Project #) ☐
Project Manager: Nicole Rice
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

5VOCs

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	5VOCs	Total Bottle	Sample Specific Comments
05420X_01	MW14-022017	2/20/17	12:57	GW	KT	X		
02	MW14-022017-FF		12:57		KT	X		
03	MW16-022017		16:54		KT	X		
04	MW16-022017-FF		16:54		KT	X		
05	MW17-022017		11:10		KT	X		
06	MW17-022017-FF		11:10		KT	X		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A												
Preservative	A												

Relinquished By:	Date/Time	Received By:	Date/Time
	2/21/17 12:26	ANL	2/21/17 12:26
	2/21/17 18:45		2-21-17 1845
	2-21-17 2245		2/21/17 2245

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

APPENDIX D

TANK REMOVAL DOCUMENTATION

BROOKSIDE ENVIRONMENTAL
WWW.BROOKSIDEWEB.COM
22 OCEAN AVENUE
COPIAGUE, NEW YORK 11726
PHONE: 631.608.8810 FAX: 631.608.8811
BIC# 2935

April 7, 2017

FDNY, Bureau of Fire Prevention
Bulk Fuel Safety Unit, Room 3E-102
9 Metro Tech Center
Brooklyn, NY 11201-3857

Re: 450 Union Street
Brooklyn, New York

AFFIDAVIT

Brian Gaudreault being duly sworn says that on April 3, 2017, Brookside Environmental completed the cleaning and removal of a 550 gallon gasoline tank in accordance with the provisions of the New York City Fire Code, Chapter 34, Section FC3404.2.13 and FC3404.2.14.

During the removal of the tank, Brookside:

- Removed and disposed of 1 drum of sludge.
- Removed and cleaned the tank.
- Disposed of tank as scrap metal.
- No piping was found associated with the tank.

This affidavit is issued to attest to the proper tank cleaning and removal procedures by a FDNY Licensed Underground Storage Tank Installer/Remover.

Brian Gaudreault
C.O.F. Type W-16
FDNY License # 81350266
Expires: 6/07/2019

State of New York
County of Suffolk
Sworn before this 7th day of April 2017

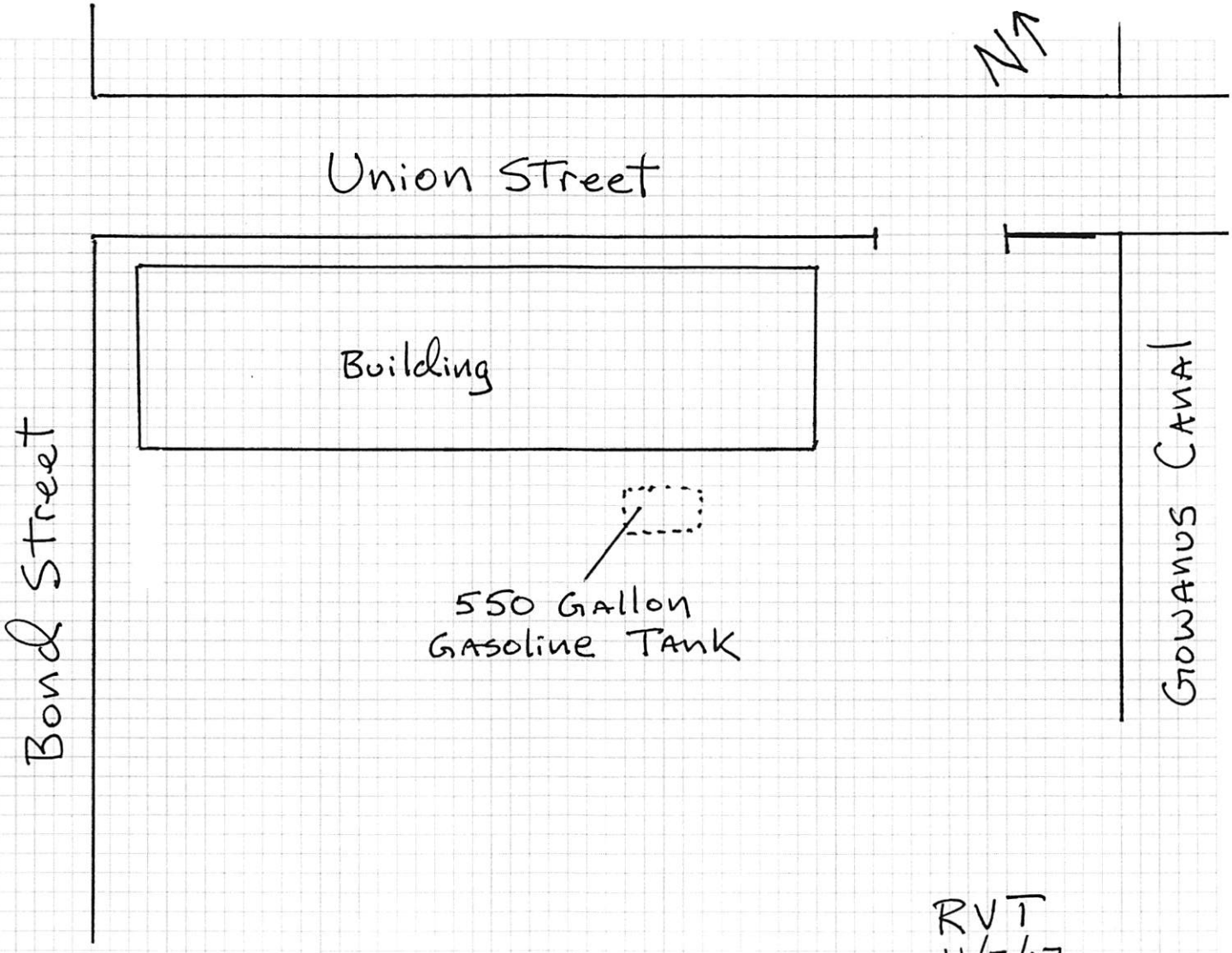
Seal Notary Public

DAWN MARIE SIEGEL
Notary Public, State of New York
No. 01SI15082958
Qualified in Suffolk County
Commission Expires August 4, 2017

BROOKSIDE ENVIRONMENTAL
WWW.BROOKSIDEWEB.COM
PHONE: 516.377.6300
PHONE: 631.608.8810
FAX: 631.608.8811

Project: 450 Union Street, Brooklyn, NY Date: 4/7/17

Re: Removal of 550 Gallon Gasoline Tank



RVT
4/7/17
N.T.S.

APPENDIX E

WASTE DISPOSAL DOCUMENTATION

174348

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYD001263136	1	631-608-8810	000097383 JJK

GENERATOR

5. Generator's Name and Mailing Address: 450 Union, LLC
10 Glenville Street, Greenwich, CT 06831
Generator's Phone: 203-813-3282

Generator's Site Address (if different than mailing address): 450 Union Street
Brooklyn, NY

6. Transporter 1 Company Name: Horwith Trucks, Inc. — U.S. EPA ID Number: PAD146714878

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Clean Earth of North Jersey
115 Jacobus Avenue, Kearny, NJ 07032
Facility's Phone: 973-344-4004 — U.S. EPA ID Number: NJD991291105

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077 Hazardous Waste Solid, n.o.s. 9, PG III (D008) (Lead) RQ	001	CM	x18	T	D008
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) Soil with lead — Approval #173081326

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Chris Geleska on behalf of 450 Union LLC — Signature: [signature] — Month: 12 Day: 22 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Corey Kolkhorst — Signature: [signature] — Month: 12 Day: 23 Year: 17

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

RECEIVED PENDING MANIFEST REVIEW AND QUALITY CONTROL

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H110			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a

Printed/Typed Name: Bernice Mills — Signature: [signature] — Month: 12 Day: 22 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

CLEANEARTH

Faster, smarter, greener solutions...

IN

GENERATOR 450 Union

MAN. NO. 00009383 HK

TRANSPORTER Horwith

VEHICLE ID. 30496

DRIVER ON OFF

REMARKS: 30yd.

8018A IR

07:51 AM 02/23/17

OUT

3884A IR

11:48 AM 02/23/17

23330

WEIGHER

WEIGH-TRONIX®

17482X

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD001263136
2. Page 1 of: 1
3. Emergency Response Phone: 631-608-8810
4. Manifest Tracking Number: 000097384 JJK

GENERATOR

5. Generator's Name and Mailing Address: 450 Union, LLC
10 Glenville Street, Greenwich, CT 06831
Generator's Phone: 203-813-3282

Generator's Site Address (if different than mailing address): 450 Union Street
Brooklyn, NY

6. Transporter 1 Company Name: Horwith Trucks, Inc.
U.S. EPA ID Number: PAD146714878

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Clean Earth of North Jersey
115 Jacobus Avenue, Kearny, NJ 07032
Facility's Phone: 973-344-4004
U.S. EPA ID Number: NJD991291105

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. NA 3077 Hazardous Waste Solid, n.o.s. 9, PG III (D008)(Lead) RQ	001	CM	X18	T	D008		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1) Soil with lead
Approval # 173081326

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Chris Celestka on behalf of 450 Union LLC
Signature:
Month: 2 Day: 22 Year: 17

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: MICHAEL KARASINSKI
Signature:
Month: 2 Day: 23 Year: 17

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

RECEIVED PENDING MANIFEST REVIEW AND QUALITY CONTROL

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H010 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Bernice Mills
Signature:
Month: Day: Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

CLEANEARTH
Faster, smarter, greener solutions...

GENERATOR 2/28 VNSP

MAN. NO. 000098B89JJK

TRANSPORTER Horwith

VEHICLE ID 30284

DRIVER ON OFF

REMARKS:

R4R4N I R

01:44 PM 02/28/17

OUT

34NNN I R

04:46 PM 02/28/17

30840

WEIGHER

WEIGH-TRONIX®

(1)

CLEANEARTH

Manifest # 1209040

GLOBAL JOB NUMBER: 144205 **FACILITY APPROVAL NUMBER:** 173070288

Please Check One:

☒ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
450 Union, LLC 450 Union Street Brooklyn, New York 11231	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: 203-913-3282	NET WEIGHT: ☐Tons ☐Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Petroleum Contaminated Soil

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Michael Chirizzi As Agent For Title: Foreman CEI

Signature: Mic. Chirizzi Date and Time: 4/4/17

TRANSPORTER

Company: C.V. Trucking Phone Number: _____

Address: 102 Cahuita St Truck # and License Plate: 57-AT537B

Driver: Segundo Lagunas SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4-4-17

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4-4-17

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: _____

SITE

(2)

CLEANEARTH

Manifest # 1289341

GLOBAL JOB NUMBER: 144205 **FACILITY APPROVAL NUMBER:** 173070288

Please Check One:

☒ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
450 Union, LLC 450 Union Street Brooklyn, New York 11231	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: 203-813-3282	NET WEIGHT: ☐Tons ☐Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Petroleum Contaminated Soil

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Michael Librizzi As Agent for Title: Foreman BEI

Signature: M. Librizzi Date and Time: 4/4/17

TRANSPORTER

Company: TEV Phone Number:

Address: Port Newark Truck # and License Plate: TEVHS AT184D

Driver: Randall Rivera SW Haulers Permit #: 1545

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 4/4/17

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 4/4/17

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: _____

SITE

CLEANEARTH

Manifest # 1289022

GLOBAL JOB NUMBER: #144205 **FACILITY APPROVAL NUMBER:** #173070381

Please Check One:

- [X] Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- [ ] Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- [ ] Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- [ ] Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- [ ] Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- [ ] Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- [ ] Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- [ ] Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
450 Union, LLC 450 Union Street Brooklyn, NY, 11231	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: 203-813-3282	NET WEIGHT: ☐Tons ☐Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Petroleum Contaminated Soil

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: William Ryan Title: Foreman BEI

Signature: [signature] Date and Time: 4/14/17

TRANSPORTER

Company: Hem. Hy Trucks Inc Phone Number: 440 261 7220

Address: 26 26 Northumberland Truck # and License Plate: 215 AG12854

Driver: Corey Kaufman SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4/14/17

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4/14/17

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4/14/17

TRANSPORTER

Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 700000612238

	Date	Time	Scale
In:	4/14/2017	08:36:42	Scale CE
Out:	4/14/2017	08:36:54	P.T.

	Lbs	Tns
Gross:	80840	40.42
Tare:	36420	18.21
Net:	44420	22.21

Manifest: 1289022
Vehicle ID: 07HDRW215
Vehicle Permit:
Customer: BROOKSIDE ENVIRONMENTAL I
Facility Approval#: 173070381
Generator: 450 Union LLC
Job Name: 450 Union LLC
Gen Address: 10 Glenville Street
Greenwich, CT 06831
Job Address: 450 Union Street
Brooklyn, NY 11231

Origin	Materials & Services	Quantity	Unit
Rings	Soil Treatment Type II	22.21	Tns

Contaminate Type: Lube Oil
Treatment Type: Bio
Fac Waste Code: Petroleum Contaminated Soil
Storage Area: Not Applicable
Comment:

Driver: _____

Facility: _____
Gibson, Barry

TRANSPORTER

CLEANEARTH

Manifest # 1289024

GLOBAL JOB NUMBER: #144205 FACILITY APPROVAL NUMBER: #173070381

Please Check One:

☒ Clean Earth of Carteret
84 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
450 Union, LLC 450 Union Street Brooklyn, NY, 11231	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: 203-813-2282	NET WEIGHT: ☐Tons ☐Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Petroleum Contaminated Soil

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: William Ryan Title: Site Supr

Signature: [signature] Date and Time: 4/14/17

TRANSPORTER

Company: [illegible] Phone Number: [illegible]

Address: [illegible] Truck # and License Plate: [illegible]

Driver: [illegible] SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4/14/17

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: 4/14/17

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4/14/17

TRANSPORTER

Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 700000612319

	Date	Time	Scale
In:	4/14/2017	10:39:52	Scale CE
Out:	4/14/2017	10:40:02	P.T.

	Lbs	Tns
Gross:	48900	24.45
Tare:	36420	18.21
Net:	12480	6.24

Manifest: 1289024
Vehicle ID: 07HORW215
Vehicle Permit:
Customer: BROOKSIDE ENVIRONMENTAL I
Facility Approval#: 173070381
Generator: 450 Union LLC
Job Name: 450 Union LLC
Gen Address: 10 Glenville Street
Greenwich, CT 06831
Job Address: 450 Union Street
Brooklyn, NY 11231

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment Type II	6.24	Tns

Contaminate Type: Lube Oil
Treatment Type: Bio
Fac Waste Code: Petroleum Contaminated Soil
Storage Area: Not Applicable
Comment:

Driver: _____

Facility: _____
Gibson, Barry

TRANSPORTER

CLEANEARTH

Truck # 436

Manifest # 1289023

GLOBAL JOB NUMBER: #144205 **FACILITY APPROVAL NUMBER:** #173070581

Please Check One:

- ☒ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
450 Union, LLC 450 Union Street Brooklyn, NY, 11231	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: 203-813-3252	NET WEIGHT: ☐Tons ☐Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Petroleum Contaminated Soil

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: William Ryan Title: Foreman BEI

Signature: [signature] Date and Time: 4/14/17

TRANSPORTER

Company: Horwith Trucks Inc Phone Number: 610 261 2220

Address: PO Box 7 Rt 32 N Northampton Truck # and License Plate: 436

Driver: Elliot Maldonado SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 4-14-17

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [signature] Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [signature] Date and Time: 4/14/17

TRANSPORTER

11

Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
PH: (732) 541-8909 Fax: (732) 541-8105

Ticket: 700000612284

	Date	Time	Scale
In:	4/14/2017	09:29:37	Scale CE
Out:	4/14/2017	09:29:48	P.T.

	Lbs	Tns
Gross:	74780	37.39
Tare:	37760	18.88
Net:	37020	18.51

Manifest: 1289023
Vehicle ID: 07LV436
Vehicle Permit:
Customer: BROOKSIDE ENVIRONMENTAL I

Facility Approval#: 173070381

Generator: 450 Union LLC
Gen Address: 10 Glenville Street
Greenwich, CT 06831

Job Name: 450 Union LLC
Job Address: 450 Union Street
Brooklyn, NY 11231

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment Type II	18.51	Tns

Contaminate Type: Lube Oil
Treatment Type: Bio
Fac Waste Code: Petroleum Contaminated Soil
Storage Area: Not Applicable
Comment:

Driver: _____

Facility: _____
Gibson, Barry

TRANSPORTER

CLEANEARTH

Manifest # 1289025

GLOBAL JOB NUMBER: 144205 **FACILITY APPROVAL NUMBER:** 173070381

Please Check One:

- [X] Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- [ ] Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- [ ] Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- [ ] Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- [ ] Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- [ ] Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- [ ] Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- [ ] Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
450 Union, LLC 450 Union Street Brooklyn, New York	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: 203-813-3575	NET WEIGHT: ☐Tons ☐Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION Petroleom Contaminated Soil

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: JUSTIN O'LEARY, 450 UNION LLC, Title: its Asset Manager

Signature: Date and Time: 4/28/2017 11:00 AM

TRANSPORTER

Company: Allstate Power Vac Phone Number: 800 876-96-99

Address: 928 E Hazelwood Av Truck # and License Plate: R43 AM655H

Driver: Rahway NJ. SW Haulers Permit #: S17262

(applicable state permit #)

ROBERT KORAB (Type or Print Clearly)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Rob Korab Date and Time: 4/28/17

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: X Rob Korab Date and Time: 4/28/17

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 4/28/17

FACILITY

Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 700000621484

	Date	Time	Scale
In:	4/28/2017	14:46:36	Scale CE
Out:	4/28/2017	14:46:46	P.T.

	Lbs	Tns
Gross:	52920	26.46
Tare:	33240	16.62
Net:	19680	9.84

Manifest: 1289025
Vehicle ID: 07ALLST43
Vehicle Permit:
Customer: BROOKSIDE ENVIRONMENTAL I

Facility Approval#: 173070381
Generator: 450 Union LLC
Job Name: 450 Union LLC
Gen Address: 10 Glenville Street
Greenwich, CT 06831
Job Address: 450 Union Street
Brooklyn, NY 11231

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment Type II	9.84	Tns

Contaminate Type: Lube Oil
Treatment Type: Bio
Fac Waste Code: Petroleum Contaminated Soil
Storage Area: Not Applicable
Comment:

Driver: _____

Facility: _____
Gibson, Barry

GENERATOR

PHONE: 631.608.8810
FAX: 631.608.8811

BROOKSIDE ENVIRONMENTAL
www.brooksideweb.com

Transporter Permit #1A-644
EPA ID #NYR000081661
BIC # 2935

NON-HAZARDOUS MANIFEST

1. Customer's US EPA ID NO.: Not Required
Document No.:
2. Page 1 of:

GENERATOR

3. Generator Site Address and Mailing Address:
450 Union LLC
450 Union Street
Brooklyn, N.Y.
4. Phone:

A. Document Number: BEI42817-1
B. State ID:

5. Transporter 1 Company Name: Brookside Environmental, Inc.
6. US EPA ID Number: NYR000081661
C. State Transporter's ID: 1A-644
D. Transporter's Phone: (631) 608-8810

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address:
Clean Water of New York
3249 Richmond Terrace
Staten Island, NY 10303
10. US EPA ID Number: NYD000968545
G. State Facility's ID:
H. Facility's Phone: (718) 981-4600

11. US DOT Description (Including Proper Shipping Name)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	L. Waste No.
a. Non-hazardous waste solid, nos Non-RCRA/Non-DOT Hazardous	X1	DM	250	P	
b. Non-hazardous waste liquid, nos Non-RCRA/Non-DOT Hazardous	X1	DM	50	G	
c.					
d.					

J. Additional Descriptions for Materials Listed Above:
a.) tank bottoms
b.) purge water

K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information
a) App# 237-028
b) App# 237-029

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Printed / Type Name: JUSTIN O'LEARY
Signature:
DATE: Month 04 Day 26 Year 17

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Type Name: Nicholas Holdener
Signature:
DATE: Month 4 Day 28 Year 17

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed / Type Name:
Signature:
DATE: Month Day Year

FACILITY

19. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted.

Printed / Typed Name: Carlos Herrera
Signature:
DATE: Month 5 Day 5 Year 17

APPENDIX F

REMEDIAL PERFORMANCE SAMPLE LABORATORY REPORTS

ANALYTICAL REPORT

Lab Number:	L1705425
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Nicole Rice
Phone:	(212) 479-5400
Project Name:	450 UNION STREET
Project Number:	170301202
Report Date:	02/23/17

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), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1705425
Report Date: 02/23/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1705425-01	SB2E2_EP_SW1	SOIL	450 UNION STREET, BROOKLYN, NY	02/20/17 13:30	02/21/17
L1705425-02	SB2E2_EP_SW2	SOIL	450 UNION STREET, BROOKLYN, NY	02/20/17 13:20	02/21/17
L1705425-03	SB2E2_EP_SW3	SOIL	450 UNION STREET, BROOKLYN, NY	02/20/17 13:25	02/21/17
L1705425-04	SB2E2_EP_SW4	SOIL	450 UNION STREET, BROOKLYN, NY	02/20/17 13:27	02/21/17
L1705425-05	SB2E2_EP_B	SOIL	450 UNION STREET, BROOKLYN, NY	02/20/17 13:35	02/21/17

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1705425
Report Date: 02/23/17

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	450 UNION STREET	**Lab Number:**	L1705425
Project Number:	170301202	**Report Date:**	02/23/17

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.

Metals

The WG980157-4 Laboratory Duplicate RPD, performed on L1705425-01, is outside the acceptance criteria for lead (22%). The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

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: Melissa Cripps

Title: Technical Director/Representative Date: 02/23/17

METALS

Project Name: 450 UNION STREET
Lab Number: L1705425
Project Number: 170301202
Report Date: 02/23/17

SAMPLE RESULTS

Lab ID: L1705425-01
Client ID: SB2E2_EP_SW1
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Percent Solids: 91%

Date Collected: 02/20/17 13:30
Date Received: 02/21/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 02/22/17 14:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Lead, TCLP	0.06	J	mg/l	0.50	0.03	1	02/23/17 09:58	02/23/17 11:03	EPA 3015	1,6010C	PS

Project Name: 450 UNION STREET
Lab Number: L1705425
Project Number: 170301202
Report Date: 02/23/17

SAMPLE RESULTS

Lab ID: L1705425-01
Client ID: SB2E2_EP_SW1
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Percent Solids: 91%

Date Collected: 02/20/17 13:30
Date Received: 02/21/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	160		mg/kg	2.2	0.12	1	02/22/17 18:31	02/23/17 00:21	EPA 3050B	1,6010C	MC

Project Name: 450 UNION STREET
Lab Number: L1705425
Project Number: 170301202
Report Date: 02/23/17

SAMPLE RESULTS

Lab ID: L1705425-02
Client ID: SB2E2_EP_SW2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Percent Solids: 81%

Date Collected: 02/20/17 13:20
Date Received: 02/21/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 02/22/17 14:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Lead, TCLP	ND		mg/l	0.50	0.03	1	02/23/17 09:58	02/23/17 11:19	EPA 3015	1,6010C	PS

Project Name: 450 UNION STREET
Lab Number: L1705425
Project Number: 170301202
Report Date: 02/23/17

SAMPLE RESULTS

Lab ID: L1705425-02
Client ID: SB2E2_EP_SW2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Percent Solids: 81%

Date Collected: 02/20/17 13:20
Date Received: 02/21/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	250		mg/kg	2.4	0.13	1	02/22/17 18:31	02/23/17 02:14	EPA 3050B	1,6010C	MC

Project Name: 450 UNION STREET
Lab Number: L1705425
Project Number: 170301202
Report Date: 02/23/17

SAMPLE RESULTS

Lab ID: L1705425-03
Client ID: SB2E2_EP_SW3
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Percent Solids: 84%

Date Collected: 02/20/17 13:25
Date Received: 02/21/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 02/22/17 14:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Lead, TCLP	ND		mg/l	0.50	0.03	1	02/23/17 09:58	02/23/17 11:23	EPA 3015	1,6010C	PS

Project Name: 450 UNION STREET
Lab Number: L1705425
Project Number: 170301202
Report Date: 02/23/17

SAMPLE RESULTS

Lab ID: L1705425-03
Client ID: SB2E2_EP_SW3
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Percent Solids: 84%

Date Collected: 02/20/17 13:25
Date Received: 02/21/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	280		mg/kg	2.3	0.12	1	02/22/17 18:31	02/23/17 02:18	EPA 3050B	1,6010C	MC

Project Name: 450 UNION STREET
Lab Number: L1705425
Project Number: 170301202
Report Date: 02/23/17

SAMPLE RESULTS

Lab ID: L1705425-04
Client ID: SB2E2_EP_SW4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Percent Solids: 77%

Date Collected: 02/20/17 13:27
Date Received: 02/21/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 02/22/17 14:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Lead, TCLP	ND		mg/l	0.50	0.03	1	02/23/17 09:58	02/23/17 11:28	EPA 3015	1,6010C	PS

Project Name: 450 UNION STREET
Lab Number: L1705425
Project Number: 170301202
Report Date: 02/23/17

SAMPLE RESULTS

Lab ID: L1705425-04
Client ID: SB2E2_EP_SW4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Percent Solids: 77%

Date Collected: 02/20/17 13:27
Date Received: 02/21/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	200		mg/kg	2.6	0.14	1	02/22/17 18:31	02/23/17 02:42	EPA 3050B	1,6010C	MC

Project Name: 450 UNION STREET
Lab Number: L1705425
Project Number: 170301202
Report Date: 02/23/17

SAMPLE RESULTS

Lab ID: L1705425-05
Client ID: SB2E2_EP_B
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Percent Solids: 87%

Date Collected: 02/20/17 13:35
Date Received: 02/21/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 02/22/17 14:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Lead, TCLP	ND		mg/l	0.50	0.03	1	02/23/17 09:58	02/23/17 12:09	EPA 3015	1,6010C	PS

Project Name: 450 UNION STREET
Lab Number: L1705425
Project Number: 170301202
Report Date: 02/23/17

SAMPLE RESULTS

Lab ID: L1705425-05
Client ID: SB2E2_EP_B
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Percent Solids: 87%

Date Collected: 02/20/17 13:35
Date Received: 02/21/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	110		mg/kg	2.2	0.12	1	02/22/17 18:31	02/23/17 02:46	EPA 3050B	1,6010C	MC

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1705425
Report Date: 02/23/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG980157-1										
Lead, Total	ND		mg/kg	2.0	0.11	1	02/22/17 18:31	02/23/17 00:13	1,6010C	MC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-05 Batch: WG980325-1										
Lead, TCLP	ND		mg/l	0.50	0.03	1	02/23/17 09:58	02/23/17 10:55	1,6010C	PS

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 02/22/17 14:48

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1705425

Report Date: 02/23/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG980157-2 SRM Lot Number: D091-540								
Lead, Total	110		-		82-118	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05 Batch: WG980325-2								
Lead, TCLP	96		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1705425
Report Date: 02/23/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG980157-3 QC Sample: L1705425-01 Client ID: SB2E2_EP_SW1												
Lead, Total	160	44.3	200	90		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG980325-3 QC Sample: L1705425-01 Client ID: SB2E2_EP_SW1												
Lead, TCLP	0.06J	5.1	5.0	98		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1705425
Report Date: 02/23/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG980157-4 QC Sample: L1705425-01 Client ID: SB2E2_EP_SW1						
Lead, Total	160	200	mg/kg	**22**	Q	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG980325-4 QC Sample: L1705425-01 Client ID: SB2E2_EP_SW1						
Lead, TCLP	0.06J	0.05J	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1705425
Report Date: 02/23/17

SAMPLE RESULTS

Lab ID: L1705425-01
Client ID: SB2E2_EP_SW1
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Date Collected: 02/20/17 13:30
Date Received: 02/21/17
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	91.0		%	0.100	NA	1	-	02/22/17 04:57	121,2540G	SH

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1705425
Report Date: 02/23/17

SAMPLE RESULTS

Lab ID: L1705425-02
Client ID: SB2E2_EP_SW2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil

Date Collected: 02/20/17 13:20
Date Received: 02/21/17
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	81.1		%	0.100	NA	1	-	02/22/17 04:57	121,2540G	SH

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1705425
Report Date: 02/23/17

SAMPLE RESULTS

Lab ID: L1705425-03
Client ID: SB2E2_EP_SW3
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil

Date Collected: 02/20/17 13:25
Date Received: 02/21/17
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	84.4		%	0.100	NA	1	-	02/22/17 04:57	121,2540G	SH

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1705425
Report Date: 02/23/17

SAMPLE RESULTS

Lab ID: L1705425-04
Client ID: SB2E2_EP_SW4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Date Collected: 02/20/17 13:27
Date Received: 02/21/17
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	77.3		%	0.100	NA	1	-	02/22/17 04:57	121,2540G	SH

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1705425
Report Date: 02/23/17

SAMPLE RESULTS

Lab ID: L1705425-05
Client ID: SB2E2_EP_B
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil

Date Collected: 02/20/17 13:35
Date Received: 02/21/17
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	86.8		%	0.100	NA	1	-	02/22/17 04:57	121,2540G	SH

Lab Duplicate Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1705425
Report Date: 02/23/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG979884-1 QC Sample: L1705404-02 Client ID: DUP Sample						
Solids, Total	94.0	90.7	%	4		20

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1705425
Report Date: 02/23/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1705425-01A	Metals Only - Glass 60mL/2oz unp	A	N/A	2.0	Y	Absent	PB-TI(180)
L1705425-01B	Glass 250ml/8oz unpreserved	A	N/A	2.0	Y	Absent	TS(7)
L1705425-01X	Plastic 120ml HNO3 preserved Ext	A	<2	2.0	Y	Absent	PB-CI(180)
L1705425-01X9	Tumble Vessel	A	N/A	2.0	Y	Absent	-
L1705425-02A	Metals Only - Glass 60mL/2oz unp	A	N/A	2.0	Y	Absent	PB-TI(180)
L1705425-02B	Glass 250ml/8oz unpreserved	A	N/A	2.0	Y	Absent	TS(7)
L1705425-02X	Plastic 120ml HNO3 preserved Ext	A	<2	2.0	Y	Absent	PB-CI(180)
L1705425-02X9	Tumble Vessel	A	N/A	2.0	Y	Absent	-
L1705425-03A	Metals Only - Glass 60mL/2oz unp	A	N/A	2.0	Y	Absent	PB-TI(180)
L1705425-03B	Glass 250ml/8oz unpreserved	A	N/A	2.0	Y	Absent	TS(7)
L1705425-03X	Plastic 120ml HNO3 preserved Ext	A	<2	2.0	Y	Absent	PB-CI(180)
L1705425-03X9	Tumble Vessel	A	N/A	2.0	Y	Absent	-
L1705425-04A	Metals Only - Glass 60mL/2oz unp	A	N/A	2.0	Y	Absent	PB-TI(180)
L1705425-04B	Glass 250ml/8oz unpreserved	A	N/A	2.0	Y	Absent	TS(7)
L1705425-04X	Plastic 120ml HNO3 preserved Ext	A	<2	2.0	Y	Absent	PB-CI(180)
L1705425-04X9	Tumble Vessel	A	N/A	2.0	Y	Absent	-
L1705425-05A	Metals Only - Glass 60mL/2oz unp	A	N/A	2.0	Y	Absent	PB-TI(180)
L1705425-05B	Glass 250ml/8oz unpreserved	A	N/A	2.0	Y	Absent	TS(7)
L1705425-05X	Plastic 120ml HNO3 preserved Ext	A	<2	2.0	Y	Absent	PB-CI(180)
L1705425-05X9	Tumble Vessel	A	N/A	2.0	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name:	450 UNION STREET	**Lab Number:**	L1705425
Project Number:	170301202	**Report Date:**	02/23/17

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers

Project Name:	450 UNION STREET	**Lab Number:**	L1705425
Project Number:	170301202	**Report Date:**	02/23/17

Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	450 UNION STREET	**Lab Number:**	L1705425
Project Number:	170301202	**Report Date:**	02/23/17

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-9288

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 2/21/17

ALPHA Job #: L1705405

Client Information

Client: Langan Engineering
Address: 360 W 31st Street, Manhattan, NY
Phone: 212-479-5400
Fax:
Email: mrice@langan.com

Project Information

Project Name: 450 Union Street
Project Location: 450 Union Street, Brooklyn, NY
Project # 170301202
(Use Project name as Project #) ☐
Project Manager: Nicole Rice
ALPHAQuote #:

Turn-Around Time

~~Standard~~ ☑ (KT)
Rush (only if pre approved) ☑
Due Date:
of Days: 3

Deliverables

☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Total lead
TCLP lead

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total lead	TCLP lead	Sample Specific Comments
05405-01	SB2E2_EP_SW1	2/20/17	1330	Soil	KT	X	X	
02	SB2E2_EP_SW2		1320		KT	X	X	
03	SB2E2_EP_SW3		1325		KT	X	X	
04	SB2E2_EP_SW4		1327		KT	X	X	
05	SB2E2_EP_B		1335		KT	X	X	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	A												
Preservative	A	A												

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	2/21/17 12:26	[signature] AAL	2/21/17 12:26
[signature]	2/21/17 18:45	[signature]	2-21-17 1850
[signature]	2-21-17 2245	[signature]	2/21/17 2248

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONSTITUTIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1710168
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Nicole Rice
Phone:	(212) 479-5400
Project Name:	450 UNION STREET
Project Number:	170301202
Report Date:	04/20/17

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), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710168
Report Date: 04/20/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1710168-01	EPN_8-9	SOIL	450 UNION STREET, BROOKLYN, NY	04/03/17 15:15	04/03/17
L1710168-02	EPE_8-9	SOIL	450 UNION STREET, BROOKLYN, NY	04/03/17 15:20	04/03/17
L1710168-03	EPS_8-9	SOIL	450 UNION STREET, BROOKLYN, NY	04/03/17 15:30	04/03/17
L1710168-04	EPW_8-9	SOIL	450 UNION STREET, BROOKLYN, NY	04/03/17 15:25	04/03/17
L1710168-05	EPB_8-9	SOIL	450 UNION STREET, BROOKLYN, NY	04/03/17 15:35	04/03/17
L1710168-06	EPB_9-10	SOIL	450 UNION STREET, BROOKLYN, NY	04/03/17 16:45	04/03/17
L1710168-07	DUP01_040317	SOIL	450 UNION STREET, BROOKLYN, NY	04/03/17 16:15	04/03/17
L1710168-08	UST01_040317	SOIL	450 UNION STREET, BROOKLYN, NY	04/03/17 18:30	04/03/17

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710168
Report Date: 04/20/17

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	450 UNION STREET	**Lab Number:**	L1710168
Project Number:	170301202	**Report Date:**	04/20/17

Case Narrative (continued)

Report Submission

This report replaces the report issued April 04, 2017. Upon further review of the Semivolatile Organics analysis, it was determined that the internal standard on the original analysis of sample L1710168-08 recovered slightly below acceptance criteria, the results for Indenopyrene, Dibenz(a,h)Anthracene, and Benzo(ghi)perylene were reported biased high. The sample was re-analyzed and yielded internal standards within acceptance criteria; the results of the re-analysis for those compounds are reported.

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

Volatile Organics

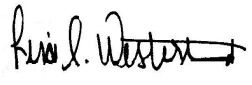
L1710168-07: The internal standard (IS) response(s) for 1,4-dichlorobenzene-d4 (42) and the surrogate recovery for 4-bromofluorobenzene (132%) were outside the acceptance criteria; however, re-analysis achieved similar results: 1,4-dichlorobenzene-d4 (47%). The results of both analyses are reported; however, since the IS response was below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias.

L1710168-08: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (133%); however, the sample was not re-analyzed due to coelution with obvious interferences. A copy of the chromatogram is included as an attachment to this report. The results are not considered to be biased.

Semivolatile Organics

The WG990697-2/-3 LCS/LCSD recoveries, associated with L1710168-01 through -08, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

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:  Lisa Westerlind

Title: Technical Director/Representative Date: 04/20/17

ORGANICS

VOLATILES

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-01
Client ID: EPN_8-9
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/04/17 09:08
Analyst: MV
Percent Solids: 87%

Date Collected: 04/03/17 15:15
Date Received: 04/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.71	0.14	1
Toluene	ND		ug/kg	1.1	0.14	1
Ethylbenzene	ND		ug/kg	0.71	0.12	1
Methyl tert butyl ether	ND		ug/kg	1.4	0.11	1
p/m-Xylene	ND		ug/kg	1.4	0.25	1
o-Xylene	ND		ug/kg	1.4	0.24	1
Xylenes, Total	ND		ug/kg	1.4	0.24	1
n-Butylbenzene	ND		ug/kg	0.71	0.16	1
sec-Butylbenzene	ND		ug/kg	0.71	0.15	1
tert-Butylbenzene	ND		ug/kg	3.5	0.18	1
Isopropylbenzene	ND		ug/kg	0.71	0.14	1
p-Isopropyltoluene	ND		ug/kg	0.71	0.14	1
Naphthalene	ND		ug/kg	3.5	0.10	1
n-Propylbenzene	ND		ug/kg	0.71	0.15	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.5	0.11	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.5	0.13	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-02
Client ID: EPE_8-9
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/04/17 09:35
Analyst: MV
Percent Solids: 58%

Date Collected: 04/03/17 15:20
Date Received: 04/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.17	1
p/m-Xylene	ND		ug/kg	2.2	0.39	1
o-Xylene	ND		ug/kg	2.2	0.38	1
Xylenes, Total	ND		ug/kg	2.2	0.38	1
n-Butylbenzene	ND		ug/kg	1.1	0.25	1
sec-Butylbenzene	ND		ug/kg	1.1	0.24	1
tert-Butylbenzene	ND		ug/kg	5.6	0.28	1
Isopropylbenzene	ND		ug/kg	1.1	0.22	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.6	0.15	1
n-Propylbenzene	ND		ug/kg	1.1	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	0.21	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-03
Client ID: EPS_8-9
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/04/17 10:01
Analyst: MV
Percent Solids: 87%

Date Collected: 04/03/17 15:30
Date Received: 04/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.79	0.15	1
Toluene	ND		ug/kg	1.2	0.15	1
Ethylbenzene	ND		ug/kg	0.79	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.6	0.12	1
p/m-Xylene	ND		ug/kg	1.6	0.28	1
o-Xylene	ND		ug/kg	1.6	0.27	1
Xylenes, Total	ND		ug/kg	1.6	0.27	1
n-Butylbenzene	ND		ug/kg	0.79	0.18	1
sec-Butylbenzene	ND		ug/kg	0.79	0.17	1
tert-Butylbenzene	ND		ug/kg	4.0	0.20	1
Isopropylbenzene	ND		ug/kg	0.79	0.15	1
p-Isopropyltoluene	ND		ug/kg	0.79	0.16	1
Naphthalene	ND		ug/kg	4.0	0.11	1
n-Propylbenzene	ND		ug/kg	0.79	0.17	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	0.13	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	0.15	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	102		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-04
Client ID: EPW_8-9
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/04/17 10:28
Analyst: MV
Percent Solids: 86%

Date Collected: 04/03/17 15:25
Date Received: 04/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.63	0.12	1
Toluene	ND		ug/kg	0.94	0.12	1
Ethylbenzene	ND		ug/kg	0.63	0.11	1
Methyl tert butyl ether	ND		ug/kg	1.2	0.10	1
p/m-Xylene	ND		ug/kg	1.2	0.22	1
o-Xylene	ND		ug/kg	1.2	0.21	1
Xylenes, Total	ND		ug/kg	1.2	0.21	1
n-Butylbenzene	ND		ug/kg	0.63	0.14	1
sec-Butylbenzene	ND		ug/kg	0.63	0.14	1
tert-Butylbenzene	ND		ug/kg	3.1	0.15	1
Isopropylbenzene	ND		ug/kg	0.63	0.12	1
p-Isopropyltoluene	ND		ug/kg	0.63	0.13	1
Naphthalene	0.12	J	ug/kg	3.1	0.09	1
n-Propylbenzene	ND		ug/kg	0.63	0.13	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	0.10	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	0.12	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	101		70-130

Project Name: 450 UNION STREET **Lab Number:** L1710168

Project Number: 170301202 **Report Date:** 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-05
Client ID: EPB_8-9
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/04/17 09:58
Analyst: MV
Percent Solids: 87%

Date Collected: 04/03/17 15:35
Date Received: 04/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.65	0.12	1
Toluene	ND		ug/kg	0.98	0.13	1
Ethylbenzene	ND		ug/kg	0.65	0.11	1
Methyl tert butyl ether	ND		ug/kg	1.3	0.10	1
p/m-Xylene	ND		ug/kg	1.3	0.23	1
o-Xylene	ND		ug/kg	1.3	0.22	1
Xylenes, Total	ND		ug/kg	1.3	0.22	1
n-Butylbenzene	ND		ug/kg	0.65	0.15	1
sec-Butylbenzene	ND		ug/kg	0.65	0.14	1
tert-Butylbenzene	ND		ug/kg	3.2	0.16	1
Isopropylbenzene	ND		ug/kg	0.65	0.13	1
p-Isopropyltoluene	ND		ug/kg	0.65	0.13	1
Naphthalene	0.14	J	ug/kg	3.2	0.09	1
n-Propylbenzene	ND		ug/kg	0.65	0.14	1
1,3,5-Trimethylbenzene	0.23	J	ug/kg	3.2	0.10	1
1,2,4-Trimethylbenzene	0.25	J	ug/kg	3.2	0.12	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	125		70-130
Dibromofluoromethane	96		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-06
Client ID: EPB_9-10
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/04/17 11:42
Analyst: MV
Percent Solids: 84%

Date Collected: 04/03/17 16:45
Date Received: 04/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	0.23	J	ug/kg	0.52	0.10	1
Toluene	0.42	J	ug/kg	0.78	0.10	1
Ethylbenzene	0.11	J	ug/kg	0.52	0.09	1
Methyl tert butyl ether	ND		ug/kg	1.0	0.08	1
p/m-Xylene	ND		ug/kg	1.0	0.18	1
o-Xylene	ND		ug/kg	1.0	0.18	1
Xylenes, Total	ND		ug/kg	1.0	0.18	1
n-Butylbenzene	ND		ug/kg	0.52	0.12	1
sec-Butylbenzene	ND		ug/kg	0.52	0.11	1
tert-Butylbenzene	ND		ug/kg	2.6	0.13	1
Isopropylbenzene	ND		ug/kg	0.52	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.52	0.10	1
Naphthalene	0.43	J	ug/kg	2.6	0.07	1
n-Propylbenzene	ND		ug/kg	0.52	0.11	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.08	1
1,2,4-Trimethylbenzene	0.10	J	ug/kg	2.6	0.10	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	127		70-130
Dibromofluoromethane	102		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-07
Client ID: DUP01_040317
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/04/17 10:50
Analyst: MV
Percent Solids: 86%

Date Collected: 04/03/17 16:15
Date Received: 04/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.64	0.12	1
Toluene	0.18	J	ug/kg	0.97	0.12	1
Ethylbenzene	ND		ug/kg	0.64	0.11	1
Methyl tert butyl ether	ND		ug/kg	1.3	0.10	1
p/m-Xylene	ND		ug/kg	1.3	0.23	1
o-Xylene	ND		ug/kg	1.3	0.22	1
Xylenes, Total	ND		ug/kg	1.3	0.22	1
n-Butylbenzene	ND		ug/kg	0.64	0.15	1
sec-Butylbenzene	ND		ug/kg	0.64	0.14	1
tert-Butylbenzene	ND		ug/kg	3.2	0.16	1
Isopropylbenzene	ND		ug/kg	0.64	0.12	1
p-Isopropyltoluene	ND		ug/kg	0.64	0.13	1
Naphthalene	0.30	J	ug/kg	3.2	0.09	1
n-Propylbenzene	ND		ug/kg	0.64	0.14	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.2	0.10	1
1,2,4-Trimethylbenzene	0.12	J	ug/kg	3.2	0.12	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	**132**	Q	70-130
Dibromofluoromethane	108		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-07 R
Client ID: DUP01_040317
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/04/17 12:09
Analyst: MV
Percent Solids: 86%

Date Collected: 04/03/17 16:15
Date Received: 04/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	ND		ug/kg	0.58	0.11	1
Toluene	0.17	J	ug/kg	0.87	0.11	1
Ethylbenzene	ND		ug/kg	0.58	0.10	1
Methyl tert butyl ether	ND		ug/kg	1.2	0.09	1
p/m-Xylene	ND		ug/kg	1.2	0.20	1
o-Xylene	ND		ug/kg	1.2	0.20	1
Xylenes, Total	ND		ug/kg	1.2	0.20	1
n-Butylbenzene	ND		ug/kg	0.58	0.13	1
sec-Butylbenzene	ND		ug/kg	0.58	0.13	1
tert-Butylbenzene	ND		ug/kg	2.9	0.14	1
Isopropylbenzene	ND		ug/kg	0.58	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.58	0.12	1
Naphthalene	0.28	J	ug/kg	2.9	0.08	1
n-Propylbenzene	ND		ug/kg	0.58	0.12	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.9	0.09	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.9	0.11	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	128		70-130
Dibromofluoromethane	107		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-08 D
Client ID: UST01_040317
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/04/17 11:16
Analyst: MV
Percent Solids: 61%

Date Collected: 04/03/17 18:30
Date Received: 04/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Benzene	5300		ug/kg	2000	390	20
Toluene	450000		ug/kg	3000	390	20
Ethylbenzene	210000		ug/kg	2000	340	20
Methyl tert butyl ether	ND		ug/kg	4000	310	20
p/m-Xylene	910000		ug/kg	4000	700	20
o-Xylene	430000		ug/kg	4000	680	20
Xylenes, Total	1300000		ug/kg	4000	680	20
n-Butylbenzene	18000		ug/kg	2000	460	20
sec-Butylbenzene	21000		ug/kg	2000	440	20
tert-Butylbenzene	4800	J	ug/kg	10000	500	20
Isopropylbenzene	51000		ug/kg	2000	390	20
p-Isopropyltoluene	18000		ug/kg	2000	400	20
Naphthalene	140000		ug/kg	10000	280	20
n-Propylbenzene	75000		ug/kg	2000	430	20
1,3,5-Trimethylbenzene	120000		ug/kg	10000	320	20
1,2,4-Trimethylbenzene	320000		ug/kg	10000	370	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	**133**	Q	70-130
Dibromofluoromethane	99		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/04/17 08:41
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-04 Batch: WG990856-5					
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	101		70-130

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710168
Report Date: 04/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/04/17 08:39
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05-07 Batch: WG990867-5					
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/04/17 08:39
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 08 Batch: WG990885-5					
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
Xylenes, Total	ND		ug/kg	100	17.
n-Butylbenzene	ND		ug/kg	50	11.
sec-Butylbenzene	ND		ug/kg	50	11.
tert-Butylbenzene	ND		ug/kg	250	12.
Isopropylbenzene	ND		ug/kg	50	9.7
p-Isopropyltoluene	ND		ug/kg	50	10.
Naphthalene	ND		ug/kg	250	6.9
n-Propylbenzene	ND		ug/kg	50	11.
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.0
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.3

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710168

Report Date: 04/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04 Batch: WG990856-3 WG990856-4								
Benzene	97		94		70-130	3		30
Toluene	94		90		70-130	4		30
Ethylbenzene	97		93		70-130	4		30
Methyl tert butyl ether	97		97		66-130	0		30
p/m-Xylene	99		95		70-130	4		30
o-Xylene	100		96		70-130	4		30
n-Butylbenzene	100		96		70-130	4		30
sec-Butylbenzene	99		94		70-130	5		30
tert-Butylbenzene	98		93		70-130	5		30
Isopropylbenzene	95		91		70-130	4		30
p-Isopropyltoluene	98		94		70-130	4		30
Naphthalene	93		97		70-130	4		30
n-Propylbenzene	97		92		70-130	5		30
1,3,5-Trimethylbenzene	97		93		70-130	4		30
1,2,4-Trimethylbenzene	99		94		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710168
Report Date: 04/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04 Batch: WG990856-3 WG990856-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	111		111		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	104		105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710168

Report Date: 04/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05-07 Batch: WG990867-3 WG990867-4								
Benzene	98		102		70-130	4		30
Toluene	96		100		70-130	4		30
Ethylbenzene	94		98		70-130	4		30
Methyl tert butyl ether	104		108		66-130	4		30
p/m-Xylene	95		98		70-130	3		30
o-Xylene	94		97		70-130	3		30
n-Butylbenzene	98		101		70-130	3		30
sec-Butylbenzene	96		100		70-130	4		30
tert-Butylbenzene	95		98		70-130	3		30
Isopropylbenzene	95		99		70-130	4		30
p-Isopropyltoluene	96		99		70-130	3		30
Naphthalene	99		102		70-130	3		30
n-Propylbenzene	95		99		70-130	4		30
1,3,5-Trimethylbenzene	95		99		70-130	4		30
1,2,4-Trimethylbenzene	94		98		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710168
Report Date: 04/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05-07 Batch: WG990867-3 WG990867-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	104		103		70-130
Dibromofluoromethane	102		104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710168

Report Date: 04/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08 Batch: WG990885-3 WG990885-4								
Benzene	98		102		70-130	4		30
Toluene	96		100		70-130	4		30
Ethylbenzene	94		98		70-130	4		30
Methyl tert butyl ether	104		108		66-130	4		30
p/m-Xylene	95		98		70-130	3		30
o-Xylene	94		97		70-130	3		30
n-Butylbenzene	98		101		70-130	3		30
sec-Butylbenzene	96		100		70-130	4		30
tert-Butylbenzene	95		98		70-130	3		30
Isopropylbenzene	95		99		70-130	4		30
p-Isopropyltoluene	96		99		70-130	3		30
Naphthalene	99		102		70-130	3		30
n-Propylbenzene	95		99		70-130	4		30
1,3,5-Trimethylbenzene	95		99		70-130	4		30
1,2,4-Trimethylbenzene	94		98		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710168
Report Date: 04/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08 Batch: WG990885-3 WG990885-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	104		103		70-130
Dibromofluoromethane	102		104		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710168
Report Date: 04/20/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG990856-6 WG990856-7 QC Sample: L1710168-04 Client ID: EPW_8-9												
Benzene	ND	17.2	14	79		8.8	**62**	Q	70-130	**42**	Q	30
Toluene	ND	17.2	12	72		6.7	**47**	Q	70-130	**60**	Q	30
Ethylbenzene	ND	17.2	11	**63**	Q	5.3	**37**	Q	70-130	**69**	Q	30
Methyl tert butyl ether	ND	17.2	14	81		12	86		66-130	13		30
p/m-Xylene	ND	34.3	21	**62**	Q	10	**36**	Q	70-130	**70**	Q	30
o-Xylene	ND	34.3	21	**62**	Q	12	**42**	Q	70-130	**56**	Q	30
n-Butylbenzene	ND	17.2	7.0	**41**	Q	2.8	**20**	Q	70-130	**85**	Q	30
sec-Butylbenzene	ND	17.2	9.4	**54**	Q	4.8	**33**	Q	70-130	**65**	Q	30
tert-Butylbenzene	ND	17.2	9.8	**57**	Q	5.4	**38**	Q	70-130	**58**	Q	30
Isopropylbenzene	ND	17.2	11	**64**	Q	5.8	**41**	Q	70-130	**60**	Q	30
p-Isopropyltoluene	ND	17.2	8.2	**48**	Q	4.2	**30**	Q	70-130	**65**	Q	30
Naphthalene	0.12J	17.2	2.7J	**16**	Q	2.1J	**15**	Q	70-130	24		30
n-Propylbenzene	ND	17.2	9.3	**54**	Q	4.3	**30**	Q	70-130	**74**	Q	30
1,3,5-Trimethylbenzene	ND	17.2	9.3	**54**	Q	5.3	**37**	Q	70-130	**55**	Q	30
1,2,4-Trimethylbenzene	ND	17.2	8.1	**47**	Q	4.5	**32**	Q	70-130	**57**	Q	30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		115		70-130
4-Bromofluorobenzene	106		112		70-130
Dibromofluoromethane	104		104		70-130
Toluene-d8	99		101		70-130

SEMIVOLATILES

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-01
Client ID: EPN_8-9
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/04/17 10:49
Analyst: RC
Percent Solids: 87%

Date Collected: 04/03/17 15:15
Date Received: 04/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/04/17 04:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	340		ug/kg	150	20.	1
Fluoranthene	9700	E	ug/kg	110	22.	1
Naphthalene	150	J	ug/kg	190	23.	1
Benzo(a)anthracene	3800		ug/kg	110	22.	1
Benzo(a)pyrene	3600		ug/kg	150	47.	1
Benzo(b)fluoranthene	4800		ug/kg	110	32.	1
Benzo(k)fluoranthene	1600		ug/kg	110	30.	1
Chrysene	3800		ug/kg	110	20.	1
Acenaphthylene	390		ug/kg	150	29.	1
Anthracene	1300		ug/kg	110	37.	1
Benzo(ghi)perylene	2600		ug/kg	150	22.	1
Fluorene	400		ug/kg	190	18.	1
Phenanthrene	6500		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	590		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	2700		ug/kg	150	27.	1
Pyrene	8300	E	ug/kg	110	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	74		30-120
4-Terphenyl-d14	76		18-120

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-01 D
Client ID: EPN_8-9
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/04/17 13:23
Analyst: RC
Percent Solids: 87%

Date Collected: 04/03/17 15:15
Date Received: 04/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/04/17 04:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	7100		ug/kg	230	44.	2
Pyrene	6100		ug/kg	230	38.	2

Project Name: 450 UNION STREET **Lab Number:** L1710168

Project Number: 170301202 **Report Date:** 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-02
Client ID: EPE_8-9
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/04/17 11:15
Analyst: RC
Percent Solids: 58%

Date Collected: 04/03/17 15:20
Date Received: 04/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/04/17 04:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	390		ug/kg	220	29.	1
Fluoranthene	16000	E	ug/kg	170	32.	1
Naphthalene	200	J	ug/kg	280	34.	1
Benzo(a)anthracene	6300		ug/kg	170	31.	1
Benzo(a)pyrene	6100		ug/kg	220	68.	1
Benzo(b)fluoranthene	8300		ug/kg	170	47.	1
Benzo(k)fluoranthene	2600		ug/kg	170	45.	1
Chrysene	6200		ug/kg	170	29.	1
Acenaphthylene	630		ug/kg	220	43.	1
Anthracene	1700		ug/kg	170	54.	1
Benzo(ghi)perylene	4400		ug/kg	220	33.	1
Fluorene	380		ug/kg	280	27.	1
Phenanthrene	8300		ug/kg	170	34.	1
Dibenzo(a,h)anthracene	1100		ug/kg	170	32.	1
Indeno(1,2,3-cd)pyrene	4700		ug/kg	220	39.	1
Pyrene	13000	E	ug/kg	170	28.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	78		30-120
4-Terphenyl-d14	73		18-120

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-02 D
Client ID: EPE_8-9
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/04/17 13:49
Analyst: RC
Percent Solids: 58%

Date Collected: 04/03/17 15:20
Date Received: 04/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/04/17 04:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	13000		ug/kg	340	64.	2
Pyrene	10000		ug/kg	340	56.	2

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-03
Client ID: EPS_8-9
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/04/17 11:40
Analyst: RC
Percent Solids: 87%

Date Collected: 04/03/17 15:30
Date Received: 04/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/04/17 04:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	120	J	ug/kg	150	19.	1
Fluoranthene	3500		ug/kg	110	21.	1
Naphthalene	49	J	ug/kg	180	23.	1
Benzo(a)anthracene	1500		ug/kg	110	21.	1
Benzo(a)pyrene	1500		ug/kg	150	45.	1
Benzo(b)fluoranthene	2000		ug/kg	110	31.	1
Benzo(k)fluoranthene	690		ug/kg	110	30.	1
Chrysene	1600		ug/kg	110	19.	1
Acenaphthylene	150		ug/kg	150	29.	1
Anthracene	410		ug/kg	110	36.	1
Benzo(ghi)perylene	1100		ug/kg	150	22.	1
Fluorene	96	J	ug/kg	180	18.	1
Phenanthrene	2000		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	260		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	1100		ug/kg	150	26.	1
Pyrene	3000		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	83		30-120
4-Terphenyl-d14	78		18-120

Project Name: 450 UNION STREET **Lab Number:** L1710168

Project Number: 170301202 **Report Date:** 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-04
Client ID: EPW_8-9
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/04/17 14:15
Analyst: PS
Percent Solids: 86%

Date Collected: 04/03/17 15:25
Date Received: 04/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/04/17 04:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	280		ug/kg	150	20.	1
Fluoranthene	7000		ug/kg	110	22.	1
Naphthalene	160	J	ug/kg	190	23.	1
Benzo(a)anthracene	3600		ug/kg	110	22.	1
Benzo(a)pyrene	3600		ug/kg	150	47.	1
Benzo(b)fluoranthene	5000		ug/kg	110	32.	1
Benzo(k)fluoranthene	1400		ug/kg	110	31.	1
Chrysene	3600		ug/kg	110	20.	1
Acenaphthylene	270		ug/kg	150	30.	1
Anthracene	1000		ug/kg	110	37.	1
Benzo(ghi)perylene	2400		ug/kg	150	22.	1
Fluorene	260		ug/kg	190	19.	1
Phenanthrene	4700		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	620		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	2600		ug/kg	150	27.	1
Pyrene	6200		ug/kg	110	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	77		30-120
4-Terphenyl-d14	77		18-120

Project Name: 450 UNION STREET **Lab Number:** L1710168

Project Number: 170301202 **Report Date:** 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-05
Client ID: EPB_8-9
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/04/17 12:06
Analyst: RC
Percent Solids: 87%

Date Collected: 04/03/17 15:35
Date Received: 04/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/04/17 04:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	360		ug/kg	150	19.	1
Fluoranthene	11000	E	ug/kg	110	22.	1
Naphthalene	140	J	ug/kg	190	23.	1
Benzo(a)anthracene	4200		ug/kg	110	21.	1
Benzo(a)pyrene	4100		ug/kg	150	46.	1
Benzo(b)fluoranthene	5600		ug/kg	110	32.	1
Benzo(k)fluoranthene	1700		ug/kg	110	30.	1
Chrysene	4200		ug/kg	110	20.	1
Acenaphthylene	360		ug/kg	150	29.	1
Anthracene	1500		ug/kg	110	37.	1
Benzo(ghi)perylene	3000		ug/kg	150	22.	1
Fluorene	400		ug/kg	190	18.	1
Phenanthrene	7600	E	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	660		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	3100		ug/kg	150	26.	1
Pyrene	9000	E	ug/kg	110	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	101		23-120
2-Fluorobiphenyl	90		30-120
4-Terphenyl-d14	85		18-120

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-05 D
Client ID: EPB_8-9
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/04/17 14:14
Analyst: RC
Percent Solids: 87%

Date Collected: 04/03/17 15:35
Date Received: 04/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/04/17 04:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	9200		ug/kg	220	43.	2
Phenanthrene	6200		ug/kg	220	46.	2
Pyrene	7400		ug/kg	220	37.	2

Project Name: 450 UNION STREET **Lab Number:** L1710168

Project Number: 170301202 **Report Date:** 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-06
Client ID: EPB_9-10
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/04/17 12:31
Analyst: RC
Percent Solids: 84%

Date Collected: 04/03/17 16:45
Date Received: 04/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/04/17 04:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	180		ug/kg	160	20.	1
Fluoranthene	7700		ug/kg	120	23.	1
Naphthalene	61	J	ug/kg	200	24.	1
Benzo(a)anthracene	3000		ug/kg	120	22.	1
Benzo(a)pyrene	3100		ug/kg	160	48.	1
Benzo(b)fluoranthene	4200		ug/kg	120	33.	1
Benzo(k)fluoranthene	1300		ug/kg	120	32.	1
Chrysene	3100		ug/kg	120	20.	1
Acenaphthylene	280		ug/kg	160	30.	1
Anthracene	850		ug/kg	120	38.	1
Benzo(ghi)perylene	2200		ug/kg	160	23.	1
Fluorene	170	J	ug/kg	200	19.	1
Phenanthrene	4100		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	520		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	2300		ug/kg	160	28.	1
Pyrene	6400		ug/kg	120	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	72		30-120
4-Terphenyl-d14	75		18-120

Project Name: 450 UNION STREET **Lab Number:** L1710168

Project Number: 170301202 **Report Date:** 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-07
Client ID: DUP01_040317
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/04/17 14:44
Analyst: ALS
Percent Solids: 86%

Date Collected: 04/03/17 16:15
Date Received: 04/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/04/17 04:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	790		ug/kg	150	20.	1
Fluoranthene	10000	E	ug/kg	110	22.	1
Naphthalene	790		ug/kg	190	23.	1
Benzo(a)anthracene	5900		ug/kg	110	21.	1
Benzo(a)pyrene	5900		ug/kg	150	46.	1
Benzo(b)fluoranthene	8600	E	ug/kg	110	32.	1
Benzo(k)fluoranthene	2700		ug/kg	110	30.	1
Chrysene	6000		ug/kg	110	20.	1
Acenaphthylene	390		ug/kg	150	29.	1
Anthracene	1800		ug/kg	110	37.	1
Benzo(ghi)perylene	4000		ug/kg	150	22.	1
Fluorene	710		ug/kg	190	18.	1
Phenanthrene	8000	E	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	1100		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	4300		ug/kg	150	26.	1
Pyrene	9200	E	ug/kg	110	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	84		30-120
4-Terphenyl-d14	83		18-120

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-07 D
Client ID: DUP01_040317
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/04/17 15:36
Analyst: MW
Percent Solids: 86%

Date Collected: 04/03/17 16:15
Date Received: 04/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/04/17 04:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	14000		ug/kg	570	110	5
Benzo(b)fluoranthene	8800		ug/kg	570	160	5
Phenanthrene	9800		ug/kg	570	120	5
Pyrene	12000		ug/kg	570	95.	5

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-08 R\D
Client ID: UST01_040317
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/17/17 15:23
Analyst: MW
Percent Solids: 61%

Date Collected: 04/03/17 18:30
Date Received: 04/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/04/17 04:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	360	J	ug/kg	430	64.	2
Dibenzo(a,h)anthracene	87	J	ug/kg	320	62.	2
Indeno(1,2,3-cd)pyrene	400	J	ug/kg	430	75.	2

Project Name: 450 UNION STREET
Lab Number: L1710168
Project Number: 170301202
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-08 D2
Client ID: UST01_040317
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/04/17 16:02
Analyst: MW
Percent Solids: 61%

Date Collected: 04/03/17 18:30
Date Received: 04/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/04/17 04:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	93000		ug/kg	5400	660	20

Project Name: 450 UNION STREET **Lab Number:** L1710168

Project Number: 170301202 **Report Date:** 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-08 D
Client ID: UST01_040317
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/04/17 15:10
Analyst: ALS
Percent Solids: 61%

Date Collected: 04/03/17 18:30
Date Received: 04/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/04/17 04:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	430	56.	2
Fluoranthene	2000		ug/kg	320	62.	2
Naphthalene	67000	E	ug/kg	540	66.	2
Benzo(a)anthracene	780		ug/kg	320	61.	2
Benzo(a)pyrene	500		ug/kg	430	130	2
Benzo(b)fluoranthene	900		ug/kg	320	91.	2
Benzo(k)fluoranthene	260	J	ug/kg	320	86.	2
Chrysene	840		ug/kg	320	56.	2
Acenaphthylene	ND		ug/kg	430	84.	2
Anthracene	300	J	ug/kg	320	100	2
Fluorene	ND		ug/kg	540	52.	2
Phenanthrene	1800		ug/kg	320	66.	2
Pyrene	1600		ug/kg	320	54.	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	**693**	Q	23-120
2-Fluorobiphenyl	54		30-120
4-Terphenyl-d14	42		18-120

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710168
Report Date: 04/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/04/17 11:32
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 04/04/17 03:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG990697-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	99	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	80		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710168
Report Date: 04/20/17

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 Batch: WG990697-2 WG990697-3								
Acenaphthene	74		80		31-137	8		50
Fluoranthene	79		86		40-140	8		50
Naphthalene	81		83		40-140	2		50
Benzo(a)anthracene	77		83		40-140	8		50
Benzo(a)pyrene	86		92		40-140	7		50
Benzo(b)fluoranthene	85		93		40-140	9		50
Benzo(k)fluoranthene	81		88		40-140	8		50
Chrysene	80		85		40-140	6		50
Acenaphthylene	84		88		40-140	5		50
Anthracene	83		90		40-140	8		50
Benzo(ghi)perylene	81		87		40-140	7		50
Fluorene	80		87		40-140	8		50
Phenanthrene	83		89		40-140	7		50
Dibenzo(a,h)anthracene	83		88		40-140	6		50
Indeno(1,2,3-cd)pyrene	84		89		40-140	6		50
Pyrene	80		86		35-142	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710168
Report Date: 04/20/17

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 Batch: WG990697-2 WG990697-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	89		88		25-120
Phenol-d6	92		96		10-120
Nitrobenzene-d5	88		91		23-120
2-Fluorobiphenyl	84		88		30-120
2,4,6-Tribromophenol	95		98		10-136
4-Terphenyl-d14	83		87		18-120

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710168
Report Date: 04/20/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG990697-4 WG990697-5 QC Sample: L1710168-04 Client ID: EPW_8-9												
Acenaphthene	280	1540	1400	72		1600	86		31-137	13		50
Fluoranthene	7000	1540	11000	**260**	Q	14000	**460**	Q	40-140	24		50
Naphthalene	160J	1540	1200	78		1400	91		40-140	15		50
Benzo(a)anthracene	3600	1540	5500	120		7300	**240**	Q	40-140	28		50
Benzo(a)pyrene	3600	1540	5400	120		7400	**250**	Q	40-140	31		50
Benzo(b)fluoranthene	5000	1540	7500	**160**	Q	9500	**290**	Q	40-140	24		50
Benzo(k)fluoranthene	1400	1540	2800	91		4200	**180**	Q	40-140	40		50
Chrysene	3600	1540	5700	140		7600	**260**	Q	40-140	29		50
Acenaphthylene	270	1540	1300	67		1600	87		40-140	21		50
Anthracene	1000	1540	2700	110		3100	140		40-140	14		50
Benzo(ghi)perylene	2400	1540	4200	120		5500	**200**	Q	40-140	27		50
Fluorene	260	1540	1500	80		1600	87		40-140	6		50
Phenanthrene	4700	1540	8700	**260**	Q	9600	**320**	Q	40-140	10		50
Dibenzo(a,h)anthracene	620	1540	1800	76		2200	100		40-140	20		50
Indeno(1,2,3-cd)pyrene	2600	1540	4400	120		5800	**210**	Q	40-140	27		50
Pyrene	6200	1540	9300	**200**	Q	12000	**380**	Q	35-142	25		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2-Fluorobiphenyl	62		74		30-120
4-Terphenyl-d14	60		72		18-120

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710168
Report Date: 04/20/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG990697-4 WG990697-5 QC Sample: L1710168-04 Client ID: EPW_8-9												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Nitrobenzene-d5	74		88		23-120

INORGANICS
&
MISCELLANEOUS

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-01
Client ID: EPN_8-9
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil

Date Collected: 04/03/17 15:15
Date Received: 04/03/17
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	87.0		%	0.100	NA	1	-	04/04/17 04:13	121,2540G	CG

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-02
Client ID: EPE_8-9
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil

Date Collected: 04/03/17 15:20
Date Received: 04/03/17
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	58.3		%	0.100	NA	1	-	04/04/17 04:13	121,2540G	CG

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-03
Client ID: EPS_8-9
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Date Collected: 04/03/17 15:30
Date Received: 04/03/17
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	87.4		%	0.100	NA	1	-	04/04/17 04:13	121,2540G	CG

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-04
Client ID: EPW_8-9
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Date Collected: 04/03/17 15:25
Date Received: 04/03/17
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	85.7		%	0.100	NA	1	-	04/04/17 04:13	121,2540G	CG

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-05
Client ID: EPB_8-9
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil

Date Collected: 04/03/17 15:35
Date Received: 04/03/17
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	87.4		%	0.100	NA	1	-	04/04/17 04:13	121,2540G	CG

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-06
Client ID: EPB_9-10
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil

Date Collected: 04/03/17 16:45
Date Received: 04/03/17
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	83.9		%	0.100	NA	1	-	04/04/17 04:13	121,2540G	CG

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-07
Client ID: DUP01_040317
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil

Date Collected: 04/03/17 16:15
Date Received: 04/03/17
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	86.0		%	0.100	NA	1	-	04/04/17 04:13	121,2540G	CG

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710168
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1710168-08
Client ID: UST01_040317
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil

Date Collected: 04/03/17 18:30
Date Received: 04/03/17
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	61.4		%	0.100	NA	1	-	04/04/17 04:13	121,2540G	CG

Lab Duplicate Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710168
Report Date: 04/20/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG990692-1 QC Sample: L1710168-04 Client ID: EPW_8-9						
Solids, Total	85.7	85.7	%	0		20

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710168
Report Date: 04/20/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 04/04/2017 04:06

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1710168-01A	Vial MeOH preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-01B	Vial water preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-01C	Vial water preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-01D	Vial unpreserved	A	N/A	2.7	Y	Absent	TS(7)
L1710168-01E	Glass 250ml/8oz unpreserved	A	N/A	2.7	Y	Absent	NYTCL-8270(14)
L1710168-02A	Vial MeOH preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-02B	Vial water preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-02C	Vial water preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-02D	Vial unpreserved	A	N/A	2.7	Y	Absent	TS(7)
L1710168-02E	Glass 250ml/8oz unpreserved	A	N/A	2.7	Y	Absent	NYTCL-8270(14)
L1710168-03A	Vial MeOH preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-03B	Vial water preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-03C	Vial water preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-03D	Vial unpreserved	A	N/A	2.7	Y	Absent	TS(7)
L1710168-03E	Glass 250ml/8oz unpreserved	A	N/A	2.7	Y	Absent	NYTCL-8270(14)
L1710168-04A	Vial MeOH preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-04A1	Vial MeOH preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-04A2	Vial MeOH preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-04B	Vial water preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-04B1	Vial water preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-04B2	Vial water preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-04C	Vial water preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-04C1	Vial water preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-04C2	Vial water preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-04D	Vial unpreserved	A	N/A	2.7	Y	Absent	TS(7)
L1710168-04D1	Plastic 2oz unpreserved for TS	A	N/A	2.7	Y	Absent	TS(7)
L1710168-04D2	Plastic 2oz unpreserved for TS	A	N/A	2.7	Y	Absent	TS(7)

*Values in parentheses indicate holding time in days

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710168
Report Date: 04/20/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1710168-04E	Glass 250ml/8oz unpreserved	A	N/A	2.7	Y	Absent	NYTCL-8270(14)
L1710168-04E1	Glass 500ml/16oz unpreserved	A	N/A	2.7	Y	Absent	NYTCL-8270(14)
L1710168-04E2	Glass 500ml/16oz unpreserved	A	N/A	2.7	Y	Absent	NYTCL-8270(14)
L1710168-05A	Vial MeOH preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-05B	Vial water preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-05C	Vial water preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-05D	Vial unpreserved	A	N/A	2.7	Y	Absent	TS(7)
L1710168-05E	Glass 250ml/8oz unpreserved	A	N/A	2.7	Y	Absent	NYTCL-8270(14)
L1710168-06A	Vial MeOH preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-06B	Vial water preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-06C	Vial water preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-06D	Plastic 2oz unpreserved for TS	A	N/A	2.7	Y	Absent	TS(7)
L1710168-06E	Glass 500ml/16oz unpreserved	A	N/A	2.7	Y	Absent	NYTCL-8270(14)
L1710168-07A	Vial MeOH preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-07B	Vial water preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-07C	Vial water preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-07D	Plastic 2oz unpreserved for TS	A	N/A	2.7	Y	Absent	TS(7)
L1710168-07E	Glass 500ml/16oz unpreserved	A	N/A	2.7	Y	Absent	NYTCL-8270(14)
L1710168-08A	Vial MeOH preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-08B	Vial water preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-08C	Vial water preserved	A	N/A	2.7	Y	Absent	NYTCL-8260HLW(14)
L1710168-08D	Plastic 2oz unpreserved for TS	A	N/A	2.7	Y	Absent	TS(7)
L1710168-08E	Glass 500ml/16oz unpreserved	A	N/A	2.7	Y	Absent	NYTCL-8270(14)

*Values in parentheses indicate holding time in days

Project Name:	450 UNION STREET	**Lab Number:**	L1710168
Project Number:	170301202	**Report Date:**	04/20/17

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers

Project Name:	450 UNION STREET	**Lab Number:**	L1710168
Project Number:	170301202	**Report Date:**	04/20/17

Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	450 UNION STREET	**Lab Number:**	L1710168
Project Number:	170301202	**Report Date:**	04/20/17

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2 (1)

Date Rec'd in Lab: 4/4/17

ALPHA Job #: L1710168

Client Information
Client: Langan Engineering
Address: 360 W 31st Street, Manhattan, NY
Phone: 212-479-5400
Fax:
Email: nrice@langan.com

Project Information
Project Name: 450 Union Street
Project Location: 450 Union Street (KT), Brooklyn, NY
Project #: 170301202
(Use Project name as Project #) ☐
Project Manager: Nicole Rice
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: ~~ASAP~~ (KT) 2 day TAT

Deliverables
☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	CP-51 VOCs and SVOCs								Total Bottle	Sample Specific Comments
10168-01	EPN-8-9	4/3/17	15:15	Soil	KT	X	X								
02	EPE-8-9		15:20		KT	X	X								
03	EPS-8-9		15:30		KT	X	X								
04	EPW-8-9		15:25		KT	X	X								
05	EPB-8-9		15:35		KT	X	X								
06	EPB-9-10		16:45		KT	X	X								
07	DUP01-040317		16:15		KT	X	X								
04	EPW-8-9-MS		16:40		KT	X	X								
04	EPW-8-9-MSD		16:42		KT	X	X								
08	US701-040317		18:30		KT	X	X								
	Container Type					V	A/G								
	Preservative					F	A								

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Kyle Twomey	4/3/17 19:00	Daniel Fischer AAL	4/3/17 19:00
Daniel Fischer AAL	4/3/17 22:00		4-3-17 2200
	4-4-17 0215	Danielle Mott	4/4/17 02:15

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

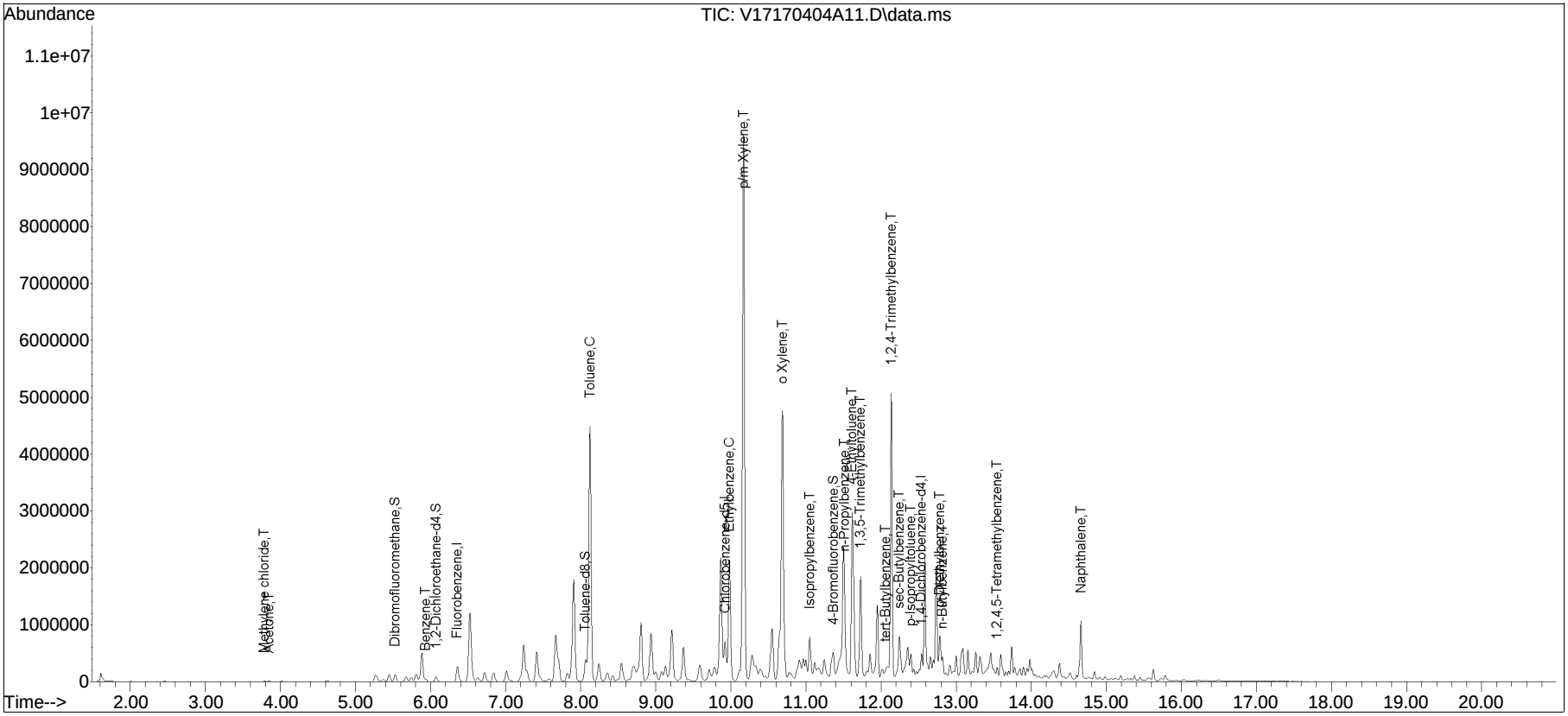
Form No: 01-25 HC (rev. 30-Sept-2013)

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA117\2017\170404A\
Data File : V17170404A11.D
Acq On : 04 Apr 2017 11:16
Operator : VOA117:MV
Sample : l1710168-08D,31H,5.9,5,0.005,,a
Misc : WG990885,ICAL13424
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 04 11:45:54 2017
Quant Method : I:\VOLATILES\VOA117\2017\170404A\V117_170221N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 22 07:45:09 2017
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox70404A\\V17170404A01.D•



ANALYTICAL REPORT

Lab Number:	L1710511
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Nicole Rice
Phone:	(212) 479-5400
Project Name:	450 UNION STREET
Project Number:	170301202
Report Date:	04/12/17

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), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1710511-01	DS01_1-2	SOIL	450 UNION STREET, BROOKLYN, NY	04/05/17 13:00	04/05/17
L1710511-02	DS02_1-2	SOIL	450 UNION STREET, BROOKLYN, NY	04/05/17 13:10	04/05/17
L1710511-03	FB01_040517	WATER	450 UNION STREET, BROOKLYN, NY	04/05/17 15:30	04/05/17

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 450 UNION STREET **Lab Number:** L1710511
Project Number: 170301202 **Report Date:** 04/12/17

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.

Sample Receipt

L1710511-03: The sample was received without the container for the Total Cyanide analysis. An aliquot was taken from an unpreserved container and preserved appropriately.

Semivolatile Organics

The WG991872-1 Method Blank, associated with L1710511-03, has a concentration above the reporting limit for bis(2-ethylhexyl)phthalate. Since the sample was non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

The WG992228-2/-3 LCS/LCSD recoveries, associated with L1710511-01 and -02, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Metals

L1710511-01 and -02: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the high concentrations of target and non-target elements.

L1710511-03: The Field Blank has a result for barium present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

The WG993365-3 MS recovery for mercury (739%), performed on L1710511-01, does not apply because the sample concentration is greater than four times the spike amount added.

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: 04/12/17

ORGANICS

VOLATILES

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-01
Client ID: DS01_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/11/17 11:33
Analyst: JC
Percent Solids: 77%

Date Collected: 04/05/17 13:00
Date Received: 04/05/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.6	1.1	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.18	1
Chloroform	ND		ug/kg	1.0	0.25	1
Carbon tetrachloride	ND		ug/kg	0.66	0.23	1
1,2-Dichloropropane	ND		ug/kg	2.3	0.15	1
Dibromochloromethane	ND		ug/kg	0.66	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.21	1
Tetrachloroethene	ND		ug/kg	0.66	0.20	1
Chlorobenzene	ND		ug/kg	0.66	0.23	1
Trichlorofluoromethane	ND		ug/kg	3.3	0.28	1
1,2-Dichloroethane	ND		ug/kg	0.66	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	0.66	0.23	1
Bromodichloromethane	ND		ug/kg	0.66	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	0.66	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	0.66	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.66	0.14	1
1,1-Dichloropropene	ND		ug/kg	3.3	0.22	1
Bromoform	ND		ug/kg	2.7	0.16	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	0.20	1
Benzene	ND		ug/kg	0.66	0.13	1
Toluene	0.23	J	ug/kg	1.0	0.13	1
Ethylbenzene	0.12	J	ug/kg	0.66	0.11	1
Chloromethane	ND		ug/kg	3.3	0.29	1
Bromomethane	ND		ug/kg	1.3	0.22	1
Vinyl chloride	ND		ug/kg	1.3	0.21	1
Chloroethane	ND		ug/kg	1.3	0.21	1
1,1-Dichloroethene	ND		ug/kg	0.66	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.0	0.16	1
Trichloroethene	ND		ug/kg	0.66	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	3.3	0.12	1

Project Name: 450 UNION STREET **Lab Number:** L1710511

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-01 Date Collected: 04/05/17 13:00

Client ID: DS01_1-2 Date Received: 04/05/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.3	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	3.3	0.12	1
Methyl tert butyl ether	ND		ug/kg	1.3	0.10	1
p/m-Xylene	0.26	J	ug/kg	1.3	0.23	1
o-Xylene	ND		ug/kg	1.3	0.22	1
Xylenes, Total	0.26	J	ug/kg	1.3	0.22	1
cis-1,2-Dichloroethene	ND		ug/kg	0.66	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	0.66	0.16	1
Dibromomethane	ND		ug/kg	6.6	0.16	1
Styrene	ND		ug/kg	1.3	0.27	1
Dichlorodifluoromethane	ND		ug/kg	6.6	0.33	1
Acetone	1.6	J	ug/kg	6.6	1.5	1
Carbon disulfide	ND		ug/kg	6.6	0.73	1
2-Butanone	ND		ug/kg	6.6	0.46	1
Vinyl acetate	ND		ug/kg	6.6	0.10	1
4-Methyl-2-pentanone	ND		ug/kg	6.6	0.16	1
1,2,3-Trichloropropane	ND		ug/kg	6.6	0.12	1
2-Hexanone	ND		ug/kg	6.6	0.44	1
Bromochloromethane	ND		ug/kg	3.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	3.3	0.30	1
1,2-Dibromoethane	ND		ug/kg	2.7	0.13	1
1,3-Dichloropropane	ND		ug/kg	3.3	0.12	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.66	0.21	1
Bromobenzene	ND		ug/kg	3.3	0.14	1
n-Butylbenzene	ND		ug/kg	0.66	0.15	1
sec-Butylbenzene	ND		ug/kg	0.66	0.14	1
tert-Butylbenzene	ND		ug/kg	3.3	0.16	1
o-Chlorotoluene	ND		ug/kg	3.3	0.15	1
p-Chlorotoluene	ND		ug/kg	3.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	0.26	1
Hexachlorobutadiene	ND		ug/kg	3.3	0.23	1
Isopropylbenzene	ND		ug/kg	0.66	0.13	1
p-Isopropyltoluene	ND		ug/kg	0.66	0.13	1
Naphthalene	0.25	J	ug/kg	3.3	0.09	1
Acrylonitrile	ND		ug/kg	6.6	0.34	1
n-Propylbenzene	ND		ug/kg	0.66	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.3	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.3	0.14	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.3	0.11	1

Project Name: 450 UNION STREET **Lab Number:** L1710511

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-01 Date Collected: 04/05/17 13:00

Client ID: DS01_1-2 Date Received: 04/05/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	3.3	0.12	1
1,4-Dioxane	ND		ug/kg	27	9.6	1
p-Diethylbenzene	ND		ug/kg	2.7	2.7	1
p-Ethyltoluene	ND		ug/kg	2.7	0.16	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.10	1
Ethyl ether	ND		ug/kg	3.3	0.17	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	3.3	0.26	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	97		70-130

Project Name: 450 UNION STREET **Lab Number:** L1710511

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-02
Client ID: DS02_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/10/17 13:56
Analyst: JC
Percent Solids: 78%

Date Collected: 04/05/17 13:10
Date Received: 04/05/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.8	1.1	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.18	1
Chloroform	0.33	J	ug/kg	1.0	0.25	1
Carbon tetrachloride	ND		ug/kg	0.68	0.23	1
1,2-Dichloropropane	ND		ug/kg	2.4	0.15	1
Dibromochloromethane	ND		ug/kg	0.68	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.21	1
Tetrachloroethene	ND		ug/kg	0.68	0.20	1
Chlorobenzene	ND		ug/kg	0.68	0.24	1
Trichlorofluoromethane	ND		ug/kg	3.4	0.28	1
1,2-Dichloroethane	ND		ug/kg	0.68	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	0.68	0.24	1
Bromodichloromethane	ND		ug/kg	0.68	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	0.68	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	0.68	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.68	0.14	1
1,1-Dichloropropene	ND		ug/kg	3.4	0.22	1
Bromoform	ND		ug/kg	2.7	0.16	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.68	0.20	1
Benzene	ND		ug/kg	0.68	0.13	1
Toluene	ND		ug/kg	1.0	0.13	1
Ethylbenzene	ND		ug/kg	0.68	0.12	1
Chloromethane	0.54	J	ug/kg	3.4	0.30	1
Bromomethane	ND		ug/kg	1.4	0.23	1
Vinyl chloride	ND		ug/kg	1.4	0.21	1
Chloroethane	ND		ug/kg	1.4	0.21	1
1,1-Dichloroethene	ND		ug/kg	0.68	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.0	0.16	1
Trichloroethene	ND		ug/kg	0.68	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	3.4	0.12	1

Project Name: 450 UNION STREET **Lab Number:** L1710511

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-02 Date Collected: 04/05/17 13:10

Client ID: DS02_1-2 Date Received: 04/05/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.4	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	3.4	0.12	1
Methyl tert butyl ether	ND		ug/kg	1.4	0.10	1
p/m-Xylene	ND		ug/kg	1.4	0.24	1
o-Xylene	ND		ug/kg	1.4	0.23	1
Xylenes, Total	ND		ug/kg	1.4	0.23	1
cis-1,2-Dichloroethene	ND		ug/kg	0.68	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	0.68	0.16	1
Dibromomethane	ND		ug/kg	6.8	0.16	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	6.8	0.34	1
Acetone	5.8	J	ug/kg	6.8	1.6	1
Carbon disulfide	ND		ug/kg	6.8	0.75	1
2-Butanone	0.71	J	ug/kg	6.8	0.47	1
Vinyl acetate	ND		ug/kg	6.8	0.10	1
4-Methyl-2-pentanone	ND		ug/kg	6.8	0.16	1
1,2,3-Trichloropropane	ND		ug/kg	6.8	0.12	1
2-Hexanone	ND		ug/kg	6.8	0.45	1
Bromochloromethane	ND		ug/kg	3.4	0.24	1
2,2-Dichloropropane	ND		ug/kg	3.4	0.30	1
1,2-Dibromoethane	ND		ug/kg	2.7	0.14	1
1,3-Dichloropropane	ND		ug/kg	3.4	0.12	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.68	0.22	1
Bromobenzene	ND		ug/kg	3.4	0.15	1
n-Butylbenzene	ND		ug/kg	0.68	0.15	1
sec-Butylbenzene	ND		ug/kg	0.68	0.15	1
tert-Butylbenzene	ND		ug/kg	3.4	0.17	1
o-Chlorotoluene	ND		ug/kg	3.4	0.15	1
p-Chlorotoluene	ND		ug/kg	3.4	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	0.27	1
Hexachlorobutadiene	ND		ug/kg	3.4	0.24	1
Isopropylbenzene	ND		ug/kg	0.68	0.13	1
p-Isopropyltoluene	ND		ug/kg	0.68	0.14	1
Naphthalene	5.8		ug/kg	3.4	0.09	1
Acrylonitrile	ND		ug/kg	6.8	0.35	1
n-Propylbenzene	ND		ug/kg	0.68	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.4	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.4	0.15	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.4	0.11	1

Project Name: 450 UNION STREET **Lab Number:** L1710511

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-02 Date Collected: 04/05/17 13:10

Client ID: DS02_1-2 Date Received: 04/05/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	3.4	0.13	1
1,4-Dioxane	ND		ug/kg	27	9.8	1
p-Diethylbenzene	ND		ug/kg	2.7	2.7	1
p-Ethyltoluene	ND		ug/kg	2.7	0.16	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.10	1
Ethyl ether	ND		ug/kg	3.4	0.18	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	3.4	0.27	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	115		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	100		70-130

Project Name: 450 UNION STREET **Lab Number:** L1710511

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-03
Client ID: FB01_040517
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/17 10:28
Analyst: PD

Date Collected: 04/05/17 15:30
Date Received: 04/05/17
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	0.14	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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 450 UNION STREET **Lab Number:** L1710511

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-03 Date Collected: 04/05/17 15:30

Client ID: FB01_040517 Date Received: 04/05/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: 450 UNION STREET **Lab Number:** L1710511

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-03 Date Collected: 04/05/17 15:30

Client ID: FB01_040517 Date Received: 04/05/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	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	101		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	100		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/10/17 08:55
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG992976-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/10/17 08:55
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG992976-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/10/17 08:55
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG992976-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/10/17 08:55
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG992976-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	96		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/17 08:47
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG993071-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/17 08:47
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG993071-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/17 08:47
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG993071-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/17 08:47
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG993071-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	96		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/17 09:33
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG993557-5					
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
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/17 09:33
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG993557-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
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

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/17 09:33
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG993557-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/17 09:33
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG993557-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710511

Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG992976-3 WG992976-4								
Methylene chloride	73		75		70-130	3		30
1,1-Dichloroethane	108		111		70-130	3		30
Chloroform	99		102		70-130	3		30
Carbon tetrachloride	99		105		70-130	6		30
1,2-Dichloropropane	109		111		70-130	2		30
Dibromochloromethane	100		106		70-130	6		30
1,1,2-Trichloroethane	107		110		70-130	3		30
Tetrachloroethene	112		113		70-130	1		30
Chlorobenzene	107		110		70-130	3		30
Trichlorofluoromethane	102		102		70-139	0		30
1,2-Dichloroethane	92		94		70-130	2		30
1,1,1-Trichloroethane	102		104		70-130	2		30
Bromodichloromethane	94		98		70-130	4		30
trans-1,3-Dichloropropene	105		110		70-130	5		30
cis-1,3-Dichloropropene	103		106		70-130	3		30
1,1-Dichloropropene	110		113		70-130	3		30
Bromoform	88		94		70-130	7		30
1,1,2,2-Tetrachloroethane	108		111		70-130	3		30
Benzene	108		110		70-130	2		30
Toluene	108		111		70-130	3		30
Ethylbenzene	108		111		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710511

Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG992976-3 WG992976-4								
Chloromethane	115		121		52-130	5		30
Bromomethane	87		89		57-147	2		30
Vinyl chloride	111		110		67-130	1		30
Chloroethane	102		105		50-151	3		30
1,1-Dichloroethene	114		118		65-135	3		30
trans-1,2-Dichloroethene	107		109		70-130	2		30
Trichloroethene	103		106		70-130	3		30
1,2-Dichlorobenzene	105		106		70-130	1		30
1,3-Dichlorobenzene	107		110		70-130	3		30
1,4-Dichlorobenzene	108		110		70-130	2		30
Methyl tert butyl ether	96		99		66-130	3		30
p/m-Xylene	110		112		70-130	2		30
o-Xylene	108		110		70-130	2		30
cis-1,2-Dichloroethene	104		106		70-130	2		30
Dibromomethane	95		99		70-130	4		30
Styrene	107		109		70-130	2		30
Dichlorodifluoromethane	105		104		30-146	1		30
Acetone	97		92		54-140	5		30
Carbon disulfide	107		111		59-130	4		30
2-Butanone	88		91		70-130	3		30
Vinyl acetate	90		94		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710511

Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG992976-3 WG992976-4								
4-Methyl-2-pentanone	107		110		70-130	3		30
1,2,3-Trichloropropane	104		107		68-130	3		30
2-Hexanone	100		103		70-130	3		30
Bromochloromethane	100		104		70-130	4		30
2,2-Dichloropropane	104		107		70-130	3		30
1,2-Dibromoethane	101		104		70-130	3		30
1,3-Dichloropropane	107		110		69-130	3		30
1,1,1,2-Tetrachloroethane	105		110		70-130	5		30
Bromobenzene	104		107		70-130	3		30
n-Butylbenzene	116		117		70-130	1		30
sec-Butylbenzene	112		115		70-130	3		30
tert-Butylbenzene	110		112		70-130	2		30
o-Chlorotoluene	107		109		70-130	2		30
p-Chlorotoluene	109		111		70-130	2		30
1,2-Dibromo-3-chloropropane	87		93		68-130	7		30
Hexachlorobutadiene	109		112		67-130	3		30
Isopropylbenzene	110		113		70-130	3		30
p-Isopropyltoluene	111		112		70-130	1		30
Naphthalene	101		105		70-130	4		30
Acrylonitrile	111		113		70-130	2		30
n-Propylbenzene	112		115		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG992976-3 WG992976-4								
1,2,3-Trichlorobenzene	104		108		70-130	4		30
1,2,4-Trichlorobenzene	108		110		70-130	2		30
1,3,5-Trimethylbenzene	108		111		70-130	3		30
1,2,4-Trimethylbenzene	109		111		70-130	2		30
1,4-Dioxane	112		117		65-136	4		30
p-Diethylbenzene	108		110		70-130	2		30
p-Ethyltoluene	105		108		70-130	3		30
1,2,4,5-Tetramethylbenzene	104		106		70-130	2		30
Ethyl ether	91		91		67-130	0		30
trans-1,4-Dichloro-2-butene	102		104		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		91		70-130
Toluene-d8	107		106		70-130
4-Bromofluorobenzene	102		103		70-130
Dibromofluoromethane	93		96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710511

Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG993071-3 WG993071-4								
Methylene chloride	**66**	Q	74		70-130	11		30
1,1-Dichloroethane	100		107		70-130	7		30
Chloroform	91		97		70-130	6		30
Carbon tetrachloride	92		100		70-130	8		30
1,2-Dichloropropane	100		107		70-130	7		30
Dibromochloromethane	93		101		70-130	8		30
1,1,2-Trichloroethane	97		103		70-130	6		30
Tetrachloroethene	102		106		70-130	4		30
Chlorobenzene	99		104		70-130	5		30
Trichlorofluoromethane	94		97		70-139	3		30
1,2-Dichloroethane	82		88		70-130	7		30
1,1,1-Trichloroethane	93		99		70-130	6		30
Bromodichloromethane	88		95		70-130	8		30
trans-1,3-Dichloropropene	97		104		70-130	7		30
cis-1,3-Dichloropropene	95		102		70-130	7		30
1,1-Dichloropropene	102		107		70-130	5		30
Bromoform	84		93		70-130	10		30
1,1,2,2-Tetrachloroethane	99		106		70-130	7		30
Benzene	100		106		70-130	6		30
Toluene	101		105		70-130	4		30
Ethylbenzene	100		105		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710511

Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG993071-3 WG993071-4								
Chloromethane	100		114		52-130	13		30
Bromomethane	81		89		57-147	9		30
Vinyl chloride	100		104		67-130	4		30
Chloroethane	97		101		50-151	4		30
1,1-Dichloroethene	94		111		65-135	17		30
trans-1,2-Dichloroethene	99		106		70-130	7		30
Trichloroethene	95		102		70-130	7		30
1,2-Dichlorobenzene	96		102		70-130	6		30
1,3-Dichlorobenzene	98		105		70-130	7		30
1,4-Dichlorobenzene	98		104		70-130	6		30
Methyl tert butyl ether	87		93		66-130	7		30
p/m-Xylene	100		107		70-130	7		30
o-Xylene	98		104		70-130	6		30
cis-1,2-Dichloroethene	96		102		70-130	6		30
Dibromomethane	86		93		70-130	8		30
Styrene	97		104		70-130	7		30
Dichlorodifluoromethane	87		91		30-146	4		30
Acetone	81		82		54-140	1		30
Carbon disulfide	119		**157**	Q	59-130	28		30
2-Butanone	76		85		70-130	11		30
Vinyl acetate	82		88		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710511

Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG993071-3 WG993071-4								
4-Methyl-2-pentanone	97		103		70-130	6		30
1,2,3-Trichloropropane	94		101		68-130	7		30
2-Hexanone	88		95		70-130	8		30
Bromochloromethane	93		100		70-130	7		30
2,2-Dichloropropane	96		102		70-130	6		30
1,2-Dibromoethane	92		97		70-130	5		30
1,3-Dichloropropane	98		103		69-130	5		30
1,1,1,2-Tetrachloroethane	99		106		70-130	7		30
Bromobenzene	96		102		70-130	6		30
n-Butylbenzene	104		111		70-130	7		30
sec-Butylbenzene	102		109		70-130	7		30
tert-Butylbenzene	99		106		70-130	7		30
o-Chlorotoluene	98		104		70-130	6		30
p-Chlorotoluene	99		106		70-130	7		30
1,2-Dibromo-3-chloropropane	80		91		68-130	13		30
Hexachlorobutadiene	100		107		67-130	7		30
Isopropylbenzene	101		106		70-130	5		30
p-Isopropyltoluene	101		107		70-130	6		30
Naphthalene	92		100		70-130	8		30
Acrylonitrile	98		106		70-130	8		30
n-Propylbenzene	102		108		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG993071-3 WG993071-4								
1,2,3-Trichlorobenzene	97		103		70-130	6		30
1,2,4-Trichlorobenzene	100		107		70-130	7		30
1,3,5-Trimethylbenzene	98		106		70-130	8		30
1,2,4-Trimethylbenzene	99		105		70-130	6		30
1,4-Dioxane	93		104		65-136	11		30
p-Diethylbenzene	99		106		70-130	7		30
p-Ethyltoluene	96		102		70-130	6		30
1,2,4,5-Tetramethylbenzene	95		102		70-130	7		30
Ethyl ether	84		86		67-130	2		30
trans-1,4-Dichloro-2-butene	93		101		70-130	8		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	89		90		70-130
Toluene-d8	107		107		70-130
4-Bromofluorobenzene	102		101		70-130
Dibromofluoromethane	95		94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710511

Report Date: 04/12/17

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: WG993557-3 WG993557-4								
Methylene chloride	95		97		70-130	2		20
1,1-Dichloroethane	99		100		70-130	1		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	98		100		63-132	2		20
1,2-Dichloropropane	95		96		70-130	1		20
Dibromochloromethane	91		94		63-130	3		20
1,1,2-Trichloroethane	95		95		70-130	0		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	99		100		62-150	1		20
1,2-Dichloroethane	93		94		70-130	1		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	93		95		67-130	2		20
trans-1,3-Dichloropropene	96		94		70-130	2		20
cis-1,3-Dichloropropene	91		94		70-130	3		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	92		92		54-136	0		20
1,1,2,2-Tetrachloroethane	98		94		67-130	4		20
Benzene	100		100		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		110		70-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710511

Report Date: 04/12/17

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: WG993557-3 WG993557-4								
Chloromethane	96		96		64-130	0		20
Bromomethane	95		96		39-139	1		20
Vinyl chloride	100		110		55-140	10		20
Chloroethane	110		110		55-138	0		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	99		100		70-130	1		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	99		97		70-130	2		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	78		77		63-130	1		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	105		110		70-130	5		20
cis-1,2-Dichloroethene	97		99		70-130	2		20
Dibromomethane	93		93		70-130	0		20
1,2,3-Trichloropropane	95		92		64-130	3		20
Acrylonitrile	87		83		70-130	5		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	95		100		36-147	5		20
Acetone	86		90		58-148	5		20
Carbon disulfide	120		**140**	Q	51-130	15		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710511

Report Date: 04/12/17

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: WG993557-3 WG993557-4								
2-Butanone	82		80		63-138	2		20
Vinyl acetate	92		91		70-130	1		20
4-Methyl-2-pentanone	79		76		59-130	4		20
2-Hexanone	64		68		57-130	6		20
Bromochloromethane	94		99		70-130	5		20
2,2-Dichloropropane	97		95		63-133	2		20
1,2-Dibromoethane	90		91		70-130	1		20
1,3-Dichloropropane	94		95		70-130	1		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		110		70-130	10		20
tert-Butylbenzene	92		92		70-130	0		20
o-Chlorotoluene	110		110		70-130	0		20
p-Chlorotoluene	100		110		70-130	10		20
1,2-Dibromo-3-chloropropane	82		82		41-144	0		20
Hexachlorobutadiene	100		100		63-130	0		20
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	93		93		70-130	0		20
Naphthalene	86		84		70-130	2		20
n-Propylbenzene	100		110		69-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

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: WG993557-3 WG993557-4								
1,2,3-Trichlorobenzene	94		87		70-130	8		20
1,2,4-Trichlorobenzene	87		88		70-130	1		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		100		70-130	10		20
1,4-Dioxane	80		80		56-162	0		20
p-Diethylbenzene	91		91		70-130	0		20
p-Ethyltoluene	110		110		70-130	0		20
1,2,4,5-Tetramethylbenzene	100		100		70-130	0		20
Ethyl ether	94		95		59-134	1		20
trans-1,4-Dichloro-2-butene	89		94		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		92		70-130
Toluene-d8	104		103		70-130
4-Bromofluorobenzene	104		104		70-130
Dibromofluoromethane	98		98		70-130

SEMIVOLATILES

Project Name: 450 UNION STREET **Lab Number:** L1710511

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-01
Client ID: DS01_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/10/17 01:35
Analyst: CB
Percent Solids: 77%

Date Collected: 04/05/17 13:00
Date Received: 04/05/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/07/17 18:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	570		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	13000	E	ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	210		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1

Project Name: 450 UNION STREET **Lab Number:** L1710511

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-01 Date Collected: 04/05/17 13:00

Client ID: DS01_1-2 Date Received: 04/05/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	5200		ug/kg	130	24.	1
Benzo(a)pyrene	4900		ug/kg	170	51.	1
Benzo(b)fluoranthene	6100		ug/kg	130	35.	1
Benzo(k)fluoranthene	2000		ug/kg	130	34.	1
Chrysene	4800		ug/kg	130	22.	1
Acenaphthylene	380		ug/kg	170	32.	1
Anthracene	1900		ug/kg	130	41.	1
Benzo(ghi)perylene	3000		ug/kg	170	25.	1
Fluorene	620		ug/kg	210	20.	1
Phenanthrene	8800	E	ug/kg	130	26.	1
Dibenzo(a,h)anthracene	720		ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	3300		ug/kg	170	29.	1
Pyrene	11000	E	ug/kg	130	21.	1
Biphenyl	56	J	ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	87.	1
Dibenzofuran	420		ug/kg	210	20.	1
2-Methylnaphthalene	130	J	ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	79.	1
4-Nitrophenol	ND		ug/kg	300	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	34	J	ug/kg	300	33.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	700		ug/kg	210	20.	1

Project Name: 450 UNION STREET **Lab Number:** L1710511

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-01 Date Collected: 04/05/17 13:00

Client ID: DS01_1-2 Date Received: 04/05/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	70		18-120

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-01 D
Client ID: DS01_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/12/17 12:18
Analyst: CB
Percent Solids: 77%

Date Collected: 04/05/17 13:00
Date Received: 04/05/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/07/17 18:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	14000		ug/kg	500	97.	4
Phenanthrene	10000		ug/kg	500	100	4
Pyrene	12000		ug/kg	500	84.	4

Project Name: 450 UNION STREET **Lab Number:** L1710511

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-02
Client ID: DS02_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/10/17 02:01
Analyst: CB
Percent Solids: 78%

Date Collected: 04/05/17 13:10
Date Received: 04/05/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/07/17 18:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	320		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	7100		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	130	J	ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1

Project Name: 450 UNION STREET **Lab Number:** L1710511

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-02 Date Collected: 04/05/17 13:10

Client ID: DS02_1-2 Date Received: 04/05/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	3000		ug/kg	130	24.	1
Benzo(a)pyrene	2900		ug/kg	170	52.	1
Benzo(b)fluoranthene	3700		ug/kg	130	36.	1
Benzo(k)fluoranthene	1200		ug/kg	130	34.	1
Chrysene	3100		ug/kg	130	22.	1
Acenaphthylene	190		ug/kg	170	33.	1
Anthracene	950		ug/kg	130	41.	1
Benzo(ghi)perylene	1800		ug/kg	170	25.	1
Fluorene	320		ug/kg	210	20.	1
Phenanthrene	4900		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	470		ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	1900		ug/kg	170	29.	1
Pyrene	6300		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	87.	1
Dibenzofuran	200	J	ug/kg	210	20.	1
2-Methylnaphthalene	76	J	ug/kg	250	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	79.	1
4-Nitrophenol	ND		ug/kg	300	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	65.	1
Carbazole	410		ug/kg	210	20.	1

Project Name: 450 UNION STREET **Lab Number:** L1710511

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-02 Date Collected: 04/05/17 13:10

Client ID: DS02_1-2 Date Received: 04/05/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	56		18-120

Project Name: 450 UNION STREET **Lab Number:** L1710511

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-03
Client ID: FB01_040517
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 04/07/17 23:40
Analyst: KV

Date Collected: 04/05/17 15:30
Date Received: 04/05/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 04/06/17 19:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	2.8	JB	ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1

Project Name: 450 UNION STREET **Lab Number:** L1710511

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-03 Date Collected: 04/05/17 15:30

Client ID: FB01_040517 Date Received: 04/05/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	106		23-120
2-Fluorobiphenyl	103		15-120
2,4,6-Tribromophenol	97		10-120
4-Terphenyl-d14	113		41-149

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-03
Client ID: FB01_040517
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 04/07/17 18:42
Analyst: KL

Date Collected: 04/05/17 15:30
Date Received: 04/05/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 04/06/17 19:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.03	1
2-Chloronaphthalene	ND		ug/l	0.19	0.03	1
Fluoranthene	ND		ug/l	0.19	0.04	1
Hexachlorobutadiene	ND		ug/l	0.48	0.03	1
Naphthalene	ND		ug/l	0.19	0.04	1
Benzo(a)anthracene	ND		ug/l	0.19	0.02	1
Benzo(a)pyrene	ND		ug/l	0.19	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.19	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.19	0.04	1
Chrysene	ND		ug/l	0.19	0.04	1
Acenaphthylene	ND		ug/l	0.19	0.03	1
Anthracene	ND		ug/l	0.19	0.03	1
Benzo(ghi)perylene	ND		ug/l	0.19	0.04	1
Fluorene	ND		ug/l	0.19	0.04	1
Phenanthrene	ND		ug/l	0.19	0.01	1
Dibenzo(a,h)anthracene	ND		ug/l	0.19	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.19	0.04	1
Pyrene	ND		ug/l	0.19	0.04	1
2-Methylnaphthalene	ND		ug/l	0.19	0.04	1
Pentachlorophenol	ND		ug/l	0.76	0.21	1
Hexachlorobenzene	ND		ug/l	0.76	0.03	1
Hexachloroethane	ND		ug/l	0.76	0.03	1

Project Name: 450 UNION STREET **Lab Number:** L1710511

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-03 Date Collected: 04/05/17 15:30

Client ID: FB01_040517 Date Received: 04/05/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	76		41-149

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/07/17 19:23
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 04/06/17 19:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG991872-1					
Acenaphthene	ND		ug/l	2.0	0.59
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66
Hexachlorobenzene	ND		ug/l	2.0	0.58
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67
2-Chloronaphthalene	ND		ug/l	2.0	0.64
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1
Fluoranthene	ND		ug/l	2.0	0.57
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63
Hexachlorobutadiene	ND		ug/l	2.0	0.72
Hexachlorocyclopentadiene	ND		ug/l	20	7.8
Hexachloroethane	ND		ug/l	2.0	0.68
Isophorone	ND		ug/l	5.0	0.60
Naphthalene	ND		ug/l	2.0	0.68
Nitrobenzene	ND		ug/l	2.0	0.75
NDPA/DPA	ND		ug/l	2.0	0.64
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70
Bis(2-ethylhexyl)phthalate	4.0		ug/l	3.0	0.91
Butyl benzyl phthalate	ND		ug/l	5.0	1.3
Di-n-butylphthalate	ND		ug/l	5.0	0.69
Di-n-octylphthalate	ND		ug/l	5.0	1.1
Diethyl phthalate	ND		ug/l	5.0	0.63

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/07/17 19:23
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 04/06/17 19:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG991872-1					
Dimethyl phthalate	ND		ug/l	5.0	0.65
Benzo(a)anthracene	ND		ug/l	2.0	0.61
Benzo(a)pyrene	ND		ug/l	2.0	0.54
Benzo(b)fluoranthene	ND		ug/l	2.0	0.64
Benzo(k)fluoranthene	ND		ug/l	2.0	0.60
Chrysene	ND		ug/l	2.0	0.54
Acenaphthylene	ND		ug/l	2.0	0.66
Anthracene	ND		ug/l	2.0	0.64
Benzo(ghi)perylene	ND		ug/l	2.0	0.61
Fluorene	ND		ug/l	2.0	0.62
Phenanthrene	ND		ug/l	2.0	0.61
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.55
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.71
Pyrene	ND		ug/l	2.0	0.57
Biphenyl	ND		ug/l	2.0	0.76
4-Chloroaniline	ND		ug/l	5.0	0.63
2-Nitroaniline	ND		ug/l	5.0	1.1
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.3
Dibenzofuran	ND		ug/l	2.0	0.66
2-Methylnaphthalene	ND		ug/l	2.0	0.72
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67
Acetophenone	ND		ug/l	5.0	0.85
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68
p-Chloro-m-cresol	ND		ug/l	2.0	0.62
2-Chlorophenol	ND		ug/l	2.0	0.63
2,4-Dichlorophenol	ND		ug/l	5.0	0.77
2,4-Dimethylphenol	ND		ug/l	5.0	1.6
2-Nitrophenol	ND		ug/l	10	1.5

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/07/17 19:23
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 04/06/17 19:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG991872-1					
4-Nitrophenol	ND		ug/l	10	1.8
2,4-Dinitrophenol	ND		ug/l	20	5.5
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1
Pentachlorophenol	ND		ug/l	10	3.4
Phenol	ND		ug/l	5.0	1.9
2-Methylphenol	ND		ug/l	5.0	1.0
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72
Benzoic Acid	ND		ug/l	50	13.
Benzyl Alcohol	ND		ug/l	2.0	0.72
Carbazole	ND		ug/l	2.0	0.63
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	94		10-120
4-Terphenyl-d14	88		41-149

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 04/07/17 15:38
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 04/06/17 19:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 03 Batch: WG991875-1					
Acenaphthene	ND		ug/l	0.10	0.04
2-Chloronaphthalene	ND		ug/l	0.20	0.04
Fluoranthene	ND		ug/l	0.20	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.04
Naphthalene	ND		ug/l	0.20	0.04
Benzo(a)anthracene	ND		ug/l	0.20	0.02
Benzo(a)pyrene	ND		ug/l	0.20	0.04
Benzo(b)fluoranthene	ND		ug/l	0.20	0.02
Benzo(k)fluoranthene	ND		ug/l	0.20	0.04
Chrysene	ND		ug/l	0.20	0.04
Acenaphthylene	ND		ug/l	0.20	0.04
Anthracene	ND		ug/l	0.20	0.04
Benzo(ghi)perylene	ND		ug/l	0.20	0.04
Fluorene	ND		ug/l	0.20	0.04
Phenanthrene	ND		ug/l	0.20	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.20	0.04
Pyrene	ND		ug/l	0.20	0.04
2-Methylnaphthalene	ND		ug/l	0.20	0.05
Pentachlorophenol	ND		ug/l	0.80	0.22
Hexachlorobenzene	ND		ug/l	0.80	0.03
Hexachloroethane	ND		ug/l	0.80	0.03

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 04/07/17 15:38
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 04/06/17 19:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 03 Batch: WG991875-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	90		15-120
2,4,6-Tribromophenol	**126**	Q	10-120
4-Terphenyl-d14	102		41-149

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/08/17 22:46
Analyst: KV

Extraction Method: EPA 3546
Extraction Date: 04/07/17 18:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG992228-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/08/17 22:46
Analyst: KV

Extraction Method: EPA 3546
Extraction Date: 04/07/17 18:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG992228-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/08/17 22:46
Analyst: KV

Extraction Method: EPA 3546
Extraction Date: 04/07/17 18:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG992228-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	78		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG991872-2 WG991872-3								
Acenaphthene	89		84		37-111	6		30
1,2,4-Trichlorobenzene	85		82		39-98	4		30
Hexachlorobenzene	102		98		40-140	4		30
Bis(2-chloroethyl)ether	81		80		40-140	1		30
2-Chloronaphthalene	94		88		40-140	7		30
1,2-Dichlorobenzene	76		77		40-140	1		30
1,3-Dichlorobenzene	72		73		40-140	1		30
1,4-Dichlorobenzene	74		74		36-97	0		30
3,3'-Dichlorobenzidine	74		72		40-140	3		30
2,4-Dinitrotoluene	104		100		48-143	4		30
2,6-Dinitrotoluene	104		101		40-140	3		30
Fluoranthene	95		91		40-140	4		30
4-Chlorophenyl phenyl ether	94		88		40-140	7		30
4-Bromophenyl phenyl ether	102		98		40-140	4		30
Bis(2-chloroisopropyl)ether	78		76		40-140	3		30
Bis(2-chloroethoxy)methane	92		89		40-140	3		30
Hexachlorobutadiene	83		76		40-140	9		30
Hexachlorocyclopentadiene	88		85		40-140	3		30
Hexachloroethane	75		71		40-140	5		30
Isophorone	94		90		40-140	4		30
Naphthalene	84		81		40-140	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710511

Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG991872-2 WG991872-3								
Nitrobenzene	92		91		40-140	1		30
NDPA/DPA	94		90		40-140	4		30
n-Nitrosodi-n-propylamine	91		87		29-132	4		30
Bis(2-ethylhexyl)phthalate	102		98		40-140	4		30
Butyl benzyl phthalate	99		94		40-140	5		30
Di-n-butylphthalate	96		90		40-140	6		30
Di-n-octylphthalate	96		92		40-140	4		30
Diethyl phthalate	97		93		40-140	4		30
Dimethyl phthalate	103		98		40-140	5		30
Benzo(a)anthracene	87		83		40-140	5		30
Benzo(a)pyrene	91		88		40-140	3		30
Benzo(b)fluoranthene	90		86		40-140	5		30
Benzo(k)fluoranthene	90		86		40-140	5		30
Chrysene	86		83		40-140	4		30
Acenaphthylene	97		92		45-123	5		30
Anthracene	91		87		40-140	4		30
Benzo(ghi)perylene	93		91		40-140	2		30
Fluorene	95		89		40-140	7		30
Phenanthrene	91		86		40-140	6		30
Dibenzo(a,h)anthracene	93		91		40-140	2		30
Indeno(1,2,3-cd)pyrene	95		92		40-140	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG991872-2 WG991872-3								
Pyrene	94		89		26-127	5		30
Biphenyl	99		94		40-140	5		30
4-Chloroaniline	70		66		40-140	6		30
2-Nitroaniline	114		110		52-143	4		30
3-Nitroaniline	89		87		25-145	2		30
4-Nitroaniline	106		103		51-143	3		30
Dibenzofuran	92		87		40-140	6		30
2-Methylnaphthalene	90		86		40-140	5		30
1,2,4,5-Tetrachlorobenzene	97		91		2-134	6		30
Acetophenone	94		92		39-129	2		30
2,4,6-Trichlorophenol	106		101		30-130	5		30
p-Chloro-m-cresol	**98**	Q	96		23-97	2		30
2-Chlorophenol	82		82		27-123	0		30
2,4-Dichlorophenol	99		95		30-130	4		30
2,4-Dimethylphenol	90		75		30-130	18		30
2-Nitrophenol	106		103		30-130	3		30
4-Nitrophenol	64		62		10-80	3		30
2,4-Dinitrophenol	113		116		20-130	3		30
4,6-Dinitro-o-cresol	121		118		20-164	3		30
Pentachlorophenol	101		98		9-103	3		30
Phenol	37		36		12-110	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710511

Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG991872-2 WG991872-3								
2-Methylphenol	77		74		30-130	4		30
3-Methylphenol/4-Methylphenol	74		72		30-130	3		30
2,4,5-Trichlorophenol	104		103		30-130	1		30
Benzoic Acid	48		48		10-164	0		30
Benzyl Alcohol	80		78		26-116	3		30
Carbazole	93		89		55-144	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	51		51		21-120
Phenol-d6	40		38		10-120
Nitrobenzene-d5	92		90		23-120
2-Fluorobiphenyl	91		86		15-120
2,4,6-Tribromophenol	110		108		10-120
4-Terphenyl-d14	94		91		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710511

Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 03 Batch: WG991875-2 WG991875-3								
Acenaphthene	80		82		37-111	2		40
2-Chloronaphthalene	90		93		40-140	3		40
Fluoranthene	89		92		40-140	3		40
Hexachlorobutadiene	90		96		40-140	6		40
Naphthalene	78		83		40-140	6		40
Benzo(a)anthracene	89		92		40-140	3		40
Benzo(a)pyrene	90		96		40-140	6		40
Benzo(b)fluoranthene	88		91		40-140	3		40
Benzo(k)fluoranthene	83		88		40-140	6		40
Chrysene	82		85		40-140	4		40
Acenaphthylene	94		96		40-140	2		40
Anthracene	89		92		40-140	3		40
Benzo(ghi)perylene	95		98		40-140	3		40
Fluorene	88		90		40-140	2		40
Phenanthrene	80		82		40-140	2		40
Dibenzo(a,h)anthracene	95		99		40-140	4		40
Indeno(1,2,3-cd)pyrene	100		104		40-140	4		40
Pyrene	89		92		26-127	3		40
2-Methylnaphthalene	86		89		40-140	3		40
Pentachlorophenol	75		78		9-103	4		40
Hexachlorobenzene	87		90		40-140	3		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 03 Batch: WG991875-2 WG991875-3								
Hexachloroethane	72		79		40-140	9		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	50		54		21-120
Phenol-d6	37		40		10-120
Nitrobenzene-d5	100		106		23-120
2-Fluorobiphenyl	86		89		15-120
2,4,6-Tribromophenol	115		117		10-120
4-Terphenyl-d14	86		90		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710511

Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG992228-2 WG992228-3								
Acenaphthene	67		70		31-137	4		50
1,2,4-Trichlorobenzene	67		75		38-107	11		50
Hexachlorobenzene	76		81		40-140	6		50
Bis(2-chloroethyl)ether	64		72		40-140	12		50
2-Chloronaphthalene	72		78		40-140	8		50
1,2-Dichlorobenzene	62		71		40-140	14		50
1,3-Dichlorobenzene	62		69		40-140	11		50
1,4-Dichlorobenzene	63		69		28-104	9		50
3,3'-Dichlorobenzidine	42		47		40-140	11		50
2,4-Dinitrotoluene	78		82		40-132	5		50
2,6-Dinitrotoluene	76		83		40-140	9		50
Fluoranthene	72		78		40-140	8		50
4-Chlorophenyl phenyl ether	70		76		40-140	8		50
4-Bromophenyl phenyl ether	77		80		40-140	4		50
Bis(2-chloroisopropyl)ether	59		67		40-140	13		50
Bis(2-chloroethoxy)methane	68		75		40-117	10		50
Hexachlorobutadiene	67		74		40-140	10		50
Hexachlorocyclopentadiene	75		84		40-140	11		50
Hexachloroethane	62		71		40-140	14		50
Isophorone	68		75		40-140	10		50
Naphthalene	66		73		40-140	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710511

Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG992228-2 WG992228-3								
Nitrobenzene	70		79		40-140	12		50
NDPA/DPA	71		76		36-157	7		50
n-Nitrosodi-n-propylamine	66		74		32-121	11		50
Bis(2-ethylhexyl)phthalate	66		72		40-140	9		50
Butyl benzyl phthalate	76		82		40-140	8		50
Di-n-butylphthalate	68		76		40-140	11		50
Di-n-octylphthalate	68		75		40-140	10		50
Diethyl phthalate	70		76		40-140	8		50
Dimethyl phthalate	76		81		40-140	6		50
Benzo(a)anthracene	64		70		40-140	9		50
Benzo(a)pyrene	70		76		40-140	8		50
Benzo(b)fluoranthene	69		74		40-140	7		50
Benzo(k)fluoranthene	69		74		40-140	7		50
Chrysene	64		68		40-140	6		50
Acenaphthylene	74		80		40-140	8		50
Anthracene	68		74		40-140	8		50
Benzo(ghi)perylene	71		77		40-140	8		50
Fluorene	69		75		40-140	8		50
Phenanthrene	68		73		40-140	7		50
Dibenzo(a,h)anthracene	72		77		40-140	7		50
Indeno(1,2,3-cd)pyrene	72		78		40-140	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710511

Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG992228-2 WG992228-3								
Pyrene	71		78		35-142	9		50
Biphenyl	74		80		54-104	8		50
4-Chloroaniline	54		46		40-140	16		50
2-Nitroaniline	84		90		47-134	7		50
3-Nitroaniline	64		68		26-129	6		50
4-Nitroaniline	84		89		41-125	6		50
Dibenzofuran	69		74		40-140	7		50
2-Methylnaphthalene	68		75		40-140	10		50
1,2,4,5-Tetrachlorobenzene	77		82		40-117	6		50
Acetophenone	71		80		14-144	12		50
2,4,6-Trichlorophenol	80		86		30-130	7		50
p-Chloro-m-cresol	76		83		26-103	9		50
2-Chlorophenol	69		77		25-102	11		50
2,4-Dichlorophenol	76		85		30-130	11		50
2,4-Dimethylphenol	77		84		30-130	9		50
2-Nitrophenol	78		88		30-130	12		50
4-Nitrophenol	83		90		11-114	8		50
2,4-Dinitrophenol	61		73		4-130	18		50
4,6-Dinitro-o-cresol	89		94		10-130	5		50
Pentachlorophenol	71		78		17-109	9		50
Phenol	66		74		26-90	11		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG992228-2 WG992228-3								
2-Methylphenol	70		78		30-130.	11		50
3-Methylphenol/4-Methylphenol	72		80		30-130	11		50
2,4,5-Trichlorophenol	80		87		30-130	8		50
Benzoic Acid	**0**	Q	**0**	Q	10-110	NC		50
Benzyl Alcohol	70		79		40-140	12		50
Carbazole	69		75		54-128	8		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		76		25-120
Phenol-d6	70		78		10-120
Nitrobenzene-d5	72		83		23-120
2-Fluorobiphenyl	71		78		30-120
2,4,6-Tribromophenol	85		94		10-136
4-Terphenyl-d14	74		80		18-120

PCBS

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-01
Client ID: DS01_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/10/17 04:53
Analyst: JW
Percent Solids: 77%

Date Collected: 04/05/17 13:00
Date Received: 04/05/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/07/17 05:04
Cleanup Method: EPA 3665A
Cleanup Date: 04/07/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.0	3.24	1	A
Aroclor 1221	ND		ug/kg	41.0	3.78	1	A
Aroclor 1232	ND		ug/kg	41.0	4.80	1	A
Aroclor 1242	ND		ug/kg	41.0	5.02	1	A
Aroclor 1248	ND		ug/kg	41.0	3.46	1	A
Aroclor 1254	ND		ug/kg	41.0	3.37	1	A
Aroclor 1260	ND		ug/kg	41.0	3.12	1	A
Aroclor 1262	ND		ug/kg	41.0	2.03	1	A
Aroclor 1268	ND		ug/kg	41.0	5.94	1	A
PCBs, Total	ND		ug/kg	41.0	2.03	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-02
Client ID: DS02_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/10/17 05:05
Analyst: JW
Percent Solids: 78%

Date Collected: 04/05/17 13:10
Date Received: 04/05/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/07/17 05:04
Cleanup Method: EPA 3665A
Cleanup Date: 04/07/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.9	3.31	1	A
Aroclor 1221	ND		ug/kg	41.9	3.86	1	A
Aroclor 1232	ND		ug/kg	41.9	4.91	1	A
Aroclor 1242	ND		ug/kg	41.9	5.12	1	A
Aroclor 1248	ND		ug/kg	41.9	3.53	1	A
Aroclor 1254	ND		ug/kg	41.9	3.44	1	A
Aroclor 1260	8.48	J	ug/kg	41.9	3.19	1	B
Aroclor 1262	ND		ug/kg	41.9	2.08	1	A
Aroclor 1268	ND		ug/kg	41.9	6.07	1	A
PCBs, Total	8.48	J	ug/kg	41.9	3.19	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-03
Client ID: FB01_040517
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/11/17 04:48
Analyst: JW

Date Collected: 04/05/17 15:30
Date Received: 04/05/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 04/08/17 05:13
Cleanup Method: EPA 3665A
Cleanup Date: 04/08/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/09/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A
PCBs, Total	ND		ug/l	0.083	0.029	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/10/17 03:50
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 04/07/17 05:04
Cleanup Method: EPA 3665A
Cleanup Date: 04/07/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG991956-1						
Aroclor 1016	ND		ug/kg	32.0	2.53	A
Aroclor 1221	ND		ug/kg	32.0	2.96	A
Aroclor 1232	ND		ug/kg	32.0	3.76	A
Aroclor 1242	ND		ug/kg	32.0	3.92	A
Aroclor 1248	ND		ug/kg	32.0	2.70	A
Aroclor 1254	ND		ug/kg	32.0	2.63	A
Aroclor 1260	ND		ug/kg	32.0	2.44	A
Aroclor 1262	ND		ug/kg	32.0	1.59	A
Aroclor 1268	ND		ug/kg	32.0	4.65	A
PCBs, Total	ND		ug/kg	32.0	1.59	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/11/17 02:52
Analyst: JA

Extraction Method: EPA 3510C
Extraction Date: 04/08/17 05:13
Cleanup Method: EPA 3665A
Cleanup Date: 04/08/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/09/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03 Batch: WG992318-1						
Aroclor 1016	ND		ug/l	0.008	0.006	A
Aroclor 1221	ND		ug/l	0.008	0.005	A
Aroclor 1232	ND		ug/l	0.008	0.003	A
Aroclor 1242	ND		ug/l	0.008	0.006	A
Aroclor 1248	ND		ug/l	0.008	0.005	A
Aroclor 1254	ND		ug/l	0.008	0.003	A
Aroclor 1260	ND		ug/l	0.008	0.003	A
Aroclor 1262	ND		ug/l	0.008	0.003	A
Aroclor 1268	ND		ug/l	0.008	0.004	A
PCBs, Total	ND		ug/l	0.008	0.003	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	71		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710511

Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG991956-2 WG991956-3									
Aroclor 1016	92		89		40-140	3		50	A
Aroclor 1260	88		86		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		97		30-150	A
Decachlorobiphenyl	87		87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		90		30-150	B
Decachlorobiphenyl	85		83		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710511

Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03 Batch: WG992318-2 WG992318-3									
Aroclor 1016	98		105		40-140	7		50	A
Aroclor 1260	95		104		40-140	9		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		85		30-150	A
Decachlorobiphenyl	71		76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		86		30-150	B
Decachlorobiphenyl	70		74		30-150	B

PESTICIDES

Project Name: 450 UNION STREET **Lab Number:** L1710511

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-01
Client ID: DS01_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/08/17 14:41
Analyst: DM
Percent Solids: 77%

Date Collected: 04/05/17 13:00
Date Received: 04/05/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/07/17 04:01
Cleanup Method: EPA 3620B
Cleanup Date: 04/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.03	0.398	1	A
Lindane	ND		ug/kg	0.847	0.378	1	A
Alpha-BHC	ND		ug/kg	0.847	0.240	1	A
Beta-BHC	ND		ug/kg	2.03	0.770	1	A
Heptachlor	ND		ug/kg	1.02	0.455	1	A
Aldrin	ND		ug/kg	2.03	0.715	1	A
Heptachlor epoxide	ND		ug/kg	3.81	1.14	1	A
Endrin	3.77	P	ug/kg	0.847	0.347	1	A
Endrin aldehyde	ND		ug/kg	2.54	0.889	1	A
Endrin ketone	ND		ug/kg	2.03	0.523	1	A
Dieldrin	ND		ug/kg	1.27	0.635	1	A
4,4'-DDE	ND		ug/kg	2.03	0.470	1	A
4,4'-DDD	ND		ug/kg	2.03	0.725	1	A
4,4'-DDT	ND		ug/kg	3.81	1.63	1	A
Endosulfan I	ND		ug/kg	2.03	0.480	1	A
Endosulfan II	ND		ug/kg	2.03	0.679	1	A
Endosulfan sulfate	ND		ug/kg	0.847	0.403	1	A
Methoxychlor	ND		ug/kg	3.81	1.18	1	A
Toxaphene	ND		ug/kg	38.1	10.7	1	A
cis-Chlordane	ND		ug/kg	2.54	0.708	1	A
trans-Chlordane	ND		ug/kg	2.54	0.670	1	A
Chlordane	ND		ug/kg	16.5	6.73	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	109		30-150	B
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	108		30-150	A

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-01
Client ID: DS01_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 04/08/17 15:28
Analyst: DM
Percent Solids: 77%
Methylation Date: 04/07/17 13:42

Date Collected: 04/05/17 13:00
Date Received: 04/05/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 04/07/17 00:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	213	13.4	1	A
2,4,5-T	ND		ug/kg	213	6.60	1	A
2,4,5-TP (Silvex)	ND		ug/kg	213	5.67	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	105		30-150	A
DCAA	77		30-150	B

Project Name: 450 UNION STREET **Lab Number:** L1710511

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-02
Client ID: DS02_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/08/17 14:57
Analyst: DM
Percent Solids: 78%

Date Collected: 04/05/17 13:10
Date Received: 04/05/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/07/17 04:01
Cleanup Method: EPA 3620B
Cleanup Date: 04/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.92	0.377	1	A
Lindane	ND		ug/kg	0.802	0.358	1	A
Alpha-BHC	ND		ug/kg	0.802	0.228	1	A
Beta-BHC	ND		ug/kg	1.92	0.730	1	A
Heptachlor	ND		ug/kg	0.963	0.432	1	A
Aldrin	ND		ug/kg	1.92	0.678	1	A
Heptachlor epoxide	ND		ug/kg	3.61	1.08	1	A
Endrin	11.5		ug/kg	0.802	0.329	1	A
Endrin aldehyde	ND		ug/kg	2.41	0.842	1	A
Endrin ketone	ND		ug/kg	1.92	0.496	1	A
Dieldrin	ND		ug/kg	1.20	0.602	1	A
4,4'-DDE	3.10		ug/kg	1.92	0.445	1	A
4,4'-DDD	ND		ug/kg	1.92	0.687	1	A
4,4'-DDT	ND		ug/kg	3.61	1.55	1	A
Endosulfan I	ND		ug/kg	1.92	0.455	1	A
Endosulfan II	ND		ug/kg	1.92	0.643	1	A
Endosulfan sulfate	ND		ug/kg	0.802	0.382	1	A
Methoxychlor	ND		ug/kg	3.61	1.12	1	A
Toxaphene	ND		ug/kg	36.1	10.1	1	A
cis-Chlordane	ND		ug/kg	2.41	0.671	1	A
trans-Chlordane	ND		ug/kg	2.41	0.635	1	A
Chlordane	ND		ug/kg	15.6	6.38	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	146		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	137		30-150	A

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-02
Client ID: DS02_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 04/08/17 15:49
Analyst: DM
Percent Solids: 78%
Methylation Date: 04/07/17 13:42

Date Collected: 04/05/17 13:10
Date Received: 04/05/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 04/07/17 00:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	211	13.3	1	A
2,4,5-T	ND		ug/kg	211	6.54	1	A
2,4,5-TP (Silvex)	ND		ug/kg	211	5.61	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	101		30-150	A
DCAA	74		30-150	B

Project Name: 450 UNION STREET **Lab Number:** L1710511

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-03
Client ID: FB01_040517
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 04/07/17 17:04
Analyst: KEG

Date Collected: 04/05/17 15:30
Date Received: 04/05/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 04/06/17 14:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin aldehyde	ND		ug/l	0.040	0.008	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-03
Client ID: FB01_040517
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 04/09/17 18:28
Analyst: KEG

Date Collected: 04/05/17 15:30
Date Received: 04/05/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 04/07/17 11:45

Methylation Date: 04/07/17 23:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	72		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/07/17 15:43
Analyst: KEG

Extraction Method: EPA 3510C
Extraction Date: 04/06/17 14:12

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG991778-1						
Delta-BHC	ND		ug/l	0.020	0.005	A
Lindane	ND		ug/l	0.020	0.004	A
Alpha-BHC	ND		ug/l	0.020	0.004	A
Beta-BHC	ND		ug/l	0.020	0.006	A
Heptachlor	ND		ug/l	0.020	0.003	A
Aldrin	ND		ug/l	0.020	0.002	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	A
Endrin	ND		ug/l	0.040	0.004	A
Endrin aldehyde	ND		ug/l	0.040	0.008	A
Endrin ketone	ND		ug/l	0.040	0.005	A
Dieldrin	ND		ug/l	0.040	0.004	A
4,4'-DDE	ND		ug/l	0.040	0.004	A
4,4'-DDD	ND		ug/l	0.040	0.005	A
4,4'-DDT	ND		ug/l	0.040	0.004	A
Endosulfan I	ND		ug/l	0.020	0.003	A
Endosulfan II	ND		ug/l	0.040	0.005	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	A
Methoxychlor	ND		ug/l	0.200	0.007	A
Toxaphene	ND		ug/l	0.200	0.063	A
cis-Chlordane	ND		ug/l	0.020	0.007	A
trans-Chlordane	ND		ug/l	0.020	0.006	A
Chlordane	ND		ug/l	0.200	0.046	A

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/07/17 15:43
Analyst: KEG

Extraction Method: EPA 3510C
Extraction Date: 04/06/17 14:12

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG991778-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 04/09/17 14:13
Analyst: KEG

Extraction Method: EPA 8151A
Extraction Date: 04/07/17 00:33

Methylation Date: 04/07/17 08:38

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-02 Batch: WG991922-1						
2,4-D	ND		ug/kg	163	10.2	A
2,4,5-T	ND		ug/kg	163	5.04	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.33	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	109		30-150	A
DCAA	80		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/07/17 16:31
Analyst: DM

Extraction Method: EPA 3546
Extraction Date: 04/07/17 04:01
Cleanup Method: EPA 3620B
Cleanup Date: 04/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG991942-1						
Delta-BHC	ND		ug/kg	1.54	0.302	A
Lindane	ND		ug/kg	0.642	0.287	A
Alpha-BHC	ND		ug/kg	0.642	0.182	A
Beta-BHC	ND		ug/kg	1.54	0.584	A
Heptachlor	ND		ug/kg	0.770	0.345	A
Aldrin	ND		ug/kg	1.54	0.542	A
Heptachlor epoxide	ND		ug/kg	2.89	0.866	A
Endrin	ND		ug/kg	0.642	0.263	A
Endrin aldehyde	ND		ug/kg	1.92	0.674	A
Endrin ketone	ND		ug/kg	1.54	0.397	A
Dieldrin	ND		ug/kg	0.963	0.481	A
4,4'-DDE	ND		ug/kg	1.54	0.356	A
4,4'-DDD	ND		ug/kg	1.54	0.549	A
4,4'-DDT	ND		ug/kg	2.89	1.24	A
Endosulfan I	ND		ug/kg	1.54	0.364	A
Endosulfan II	ND		ug/kg	1.54	0.515	A
Endosulfan sulfate	ND		ug/kg	0.642	0.306	A
Methoxychlor	ND		ug/kg	2.89	0.898	A
Toxaphene	ND		ug/kg	28.9	8.09	A
cis-Chlordane	ND		ug/kg	1.92	0.536	A
trans-Chlordane	ND		ug/kg	1.92	0.508	A
Chlordane	ND		ug/kg	12.5	5.10	A

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/07/17 16:31
Analyst: DM

Extraction Method: EPA 3546
Extraction Date: 04/07/17 04:01
Cleanup Method: EPA 3620B
Cleanup Date: 04/07/17

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG991942-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	62		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	49		30-150	A

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 04/09/17 17:25
Analyst: KEG

Extraction Method: EPA 8151A
Extraction Date: 04/07/17 11:45

Methylation Date: 04/07/17 23:23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 03 Batch: WG992107-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	106		30-150	A
DCAA	82		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710511

Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG991778-2 WG991778-3									
Delta-BHC	125		86		30-150	**37**	Q	20	A
Lindane	121		85		30-150	**35**	Q	20	A
Alpha-BHC	126		88		30-150	**36**	Q	20	A
Beta-BHC	108		73		30-150	**39**	Q	20	A
Heptachlor	122		71		30-150	**53**	Q	20	A
Aldrin	110		82		30-150	**30**	Q	20	A
Heptachlor epoxide	109		81		30-150	**30**	Q	20	A
Endrin	118		82		30-150	**36**	Q	20	A
Endrin aldehyde	103		76		30-150	**31**	Q	20	A
Endrin ketone	115		87		30-150	**28**	Q	20	A
Dieldrin	115		84		30-150	**31**	Q	20	A
4,4'-DDE	115		85		30-150	**30**	Q	20	A
4,4'-DDD	111		82		30-150	**31**	Q	20	A
4,4'-DDT	138		91		30-150	**41**	Q	20	A
Endosulfan I	107		80		30-150	**29**	Q	20	A
Endosulfan II	105		78		30-150	**29**	Q	20	A
Endosulfan sulfate	98		78		30-150	**23**	Q	20	A
Methoxychlor	128		94		30-150	**31**	Q	20	A
cis-Chlordane	99		74		30-150	**29**	Q	20	A
trans-Chlordane	111		82		30-150	**30**	Q	20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG991778-2 WG991778-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		66		30-150	A
Decachlorobiphenyl	72		53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		71		30-150	B
Decachlorobiphenyl	92		72		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG991922-2 WG991922-3									
2,4-D	94		93		30-150	1		30	A
2,4,5-T	84		86		30-150	2		30	A
2,4,5-TP (Silvex)	80		85		30-150	6		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	107		103		30-150	A
DCAA	83		85		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710511

Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG991942-2 WG991942-3									
Delta-BHC	87		83		30-150	5		30	A
Lindane	81		83		30-150	2		30	A
Alpha-BHC	87		84		30-150	4		30	A
Beta-BHC	98		82		30-150	18		30	A
Heptachlor	84		81		30-150	4		30	A
Aldrin	75		72		30-150	4		30	A
Heptachlor epoxide	76		72		30-150	5		30	A
Endrin	83		78		30-150	6		30	A
Endrin aldehyde	66		58		30-150	13		30	A
Endrin ketone	82		70		30-150	16		30	A
Dieldrin	84		80		30-150	5		30	A
4,4'-DDE	81		77		30-150	5		30	A
4,4'-DDD	83		79		30-150	5		30	A
4,4'-DDT	86		80		30-150	7		30	A
Endosulfan I	79		74		30-150	7		30	A
Endosulfan II	83		76		30-150	9		30	A
Endosulfan sulfate	74		64		30-150	14		30	A
Methoxychlor	83		77		30-150	8		30	A
cis-Chlordane	75		71		30-150	5		30	A
trans-Chlordane	77		73		30-150	5		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG991942-2 WG991942-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		78		30-150	B
Decachlorobiphenyl	66		62		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		79		30-150	A
Decachlorobiphenyl	53		53		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 03 Batch: WG992107-2 WG992107-3									
2,4-D	85		84		30-150	1		25	A
2,4,5-T	84		85		30-150	1		25	A
2,4,5-TP (Silvex)	81		82		30-150	1		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	110		105		30-150	A
DCAA	84		86		30-150	B

METALS

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-01
Client ID: DS01_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Percent Solids: 77%

Date Collected: 04/05/17 13:00
Date Received: 04/05/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4600		mg/kg	10	2.7	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
Antimony, Total	6.6		mg/kg	5.0	0.38	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
Arsenic, Total	7.9		mg/kg	1.0	0.21	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
Barium, Total	88		mg/kg	1.0	0.18	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
Beryllium, Total	0.26	J	mg/kg	0.50	0.03	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
Cadmium, Total	0.860	J	mg/kg	1.01	0.099	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
Calcium, Total	9400		mg/kg	10	3.5	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
Chromium, Total	13		mg/kg	1.0	0.10	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
Cobalt, Total	4.4		mg/kg	2.0	0.17	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
Copper, Total	150		mg/kg	1.0	0.26	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
Iron, Total	11000		mg/kg	5.0	0.91	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
Lead, Total	270		mg/kg	5.0	0.27	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
Magnesium, Total	1900		mg/kg	10	1.6	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
Manganese, Total	220		mg/kg	1.0	0.16	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
Mercury, Total	3.6		mg/kg	0.40	0.09	5	04/12/17 07:30	04/12/17 10:43	EPA 7471B	1,7471B	BV
Nickel, Total	36		mg/kg	2.5	0.24	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
Potassium, Total	1100		mg/kg	250	14.	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
Selenium, Total	ND		mg/kg	2.0	0.26	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
Silver, Total	ND		mg/kg	1.0	0.29	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
Sodium, Total	120	J	mg/kg	200	3.2	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
Thallium, Total	ND		mg/kg	2.0	0.32	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
Vanadium, Total	14		mg/kg	1.0	0.20	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
Zinc, Total	370		mg/kg	5.0	0.30	2	04/11/17 18:20	04/12/17 11:18	EPA 3050B	1,6010C	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	13	J	mg/kg	1.0	1.0	1		04/12/17 11:18	NA	107,-	

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-02
Client ID: DS02_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Percent Solids: 78%

Date Collected: 04/05/17 13:10
Date Received: 04/05/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5600		mg/kg	9.8	2.6	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
Antimony, Total	1.7	J	mg/kg	4.9	0.37	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
Arsenic, Total	7.6		mg/kg	0.98	0.20	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
Barium, Total	65		mg/kg	0.98	0.17	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
Beryllium, Total	0.28	J	mg/kg	0.49	0.03	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
Cadmium, Total	2.3		mg/kg	0.98	0.10	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
Calcium, Total	8600		mg/kg	9.8	3.4	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
Chromium, Total	12		mg/kg	0.98	0.09	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
Cobalt, Total	5.2		mg/kg	2.0	0.16	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
Copper, Total	1000		mg/kg	0.98	0.25	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
Iron, Total	14000		mg/kg	4.9	0.88	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
Lead, Total	220		mg/kg	4.9	0.26	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
Magnesium, Total	1800		mg/kg	9.8	1.5	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
Manganese, Total	200		mg/kg	0.98	0.16	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
Mercury, Total	0.44		mg/kg	0.08	0.02	1	04/12/17 07:30	04/12/17 09:58	EPA 7471B	1,7471B	BV
Nickel, Total	24		mg/kg	2.4	0.24	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
Potassium, Total	790		mg/kg	240	14.	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
Selenium, Total	ND		mg/kg	2.0	0.25	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
Silver, Total	ND		mg/kg	0.98	0.28	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
Sodium, Total	98	J	mg/kg	200	3.1	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
Thallium, Total	ND		mg/kg	2.0	0.31	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
Vanadium, Total	14		mg/kg	0.98	0.20	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
Zinc, Total	660		mg/kg	4.9	0.29	2	04/11/17 18:20	04/12/17 11:22	EPA 3050B	1,6010C	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12	J	mg/kg	1.0	1.0	1		04/12/17 11:22	NA	107,-	

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-03
Client ID: FB01_040517
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Water
Date Collected: 04/05/17 15:30
Date Received: 04/05/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
Antimony, Total	0.00051	J	mg/l	0.00400	0.00042	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
Barium, Total	0.00378		mg/l	0.00050	0.00017	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
Calcium, Total	ND		mg/l	0.100	0.0394	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
Chromium, Total	ND		mg/l	0.00100	0.00017	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
Copper, Total	ND		mg/l	0.00100	0.00038	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
Iron, Total	ND		mg/l	0.0500	0.0191	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
Lead, Total	ND		mg/l	0.00100	0.00034	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
Manganese, Total	ND		mg/l	0.00100	0.00044	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/06/17 10:10	04/06/17 19:55	EPA 7470A	1,7470A	EA
Nickel, Total	ND		mg/l	0.00200	0.00055	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
Potassium, Total	ND		mg/l	0.100	0.0309	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
Sodium, Total	ND		mg/l	0.100	0.0293	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
Thallium, Total	ND		mg/l	0.00050	0.00014	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	04/07/17 11:10	04/08/17 12:08	EPA 3005A	1,6020A	BV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		04/08/17 12:08	NA	107,-	

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03 Batch: WG991657-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/06/17 10:10	04/06/17 19:36	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03 Batch: WG992079-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV
Antimony, Total	0.00047	J	mg/l	0.00400	0.00042	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV
Barium, Total	ND		mg/l	0.00050	0.00017	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV
Calcium, Total	ND		mg/l	0.100	0.0394	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV
Chromium, Total	ND		mg/l	0.00100	0.00017	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV
Copper, Total	ND		mg/l	0.00100	0.00038	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV
Iron, Total	ND		mg/l	0.0500	0.0191	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV
Lead, Total	ND		mg/l	0.00050	0.00034	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV
Manganese, Total	ND		mg/l	0.00100	0.00044	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV
Nickel, Total	ND		mg/l	0.00200	0.00055	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV
Potassium, Total	ND		mg/l	0.100	0.0309	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV
Sodium, Total	ND		mg/l	0.100	0.0293	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV
Thallium, Total	ND		mg/l	0.00050	0.00014	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	04/07/17 11:10	04/08/17 12:04	1,6020A	BV

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG993212-1										
Aluminum, Total	ND		mg/kg	4.0	1.1	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Antimony, Total	ND		mg/kg	2.0	0.15	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Arsenic, Total	ND		mg/kg	0.40	0.08	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Barium, Total	ND		mg/kg	0.40	0.07	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Beryllium, Total	ND		mg/kg	0.20	0.01	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Cadmium, Total	ND		mg/kg	0.40	0.04	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Calcium, Total	ND		mg/kg	4.0	1.4	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Chromium, Total	ND		mg/kg	0.40	0.04	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Cobalt, Total	ND		mg/kg	0.80	0.07	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Copper, Total	ND		mg/kg	0.40	0.10	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Iron, Total	ND		mg/kg	2.0	0.36	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Lead, Total	ND		mg/kg	2.0	0.11	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Magnesium, Total	ND		mg/kg	4.0	0.62	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Manganese, Total	0.07	J	mg/kg	0.40	0.06	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Nickel, Total	ND		mg/kg	1.0	0.10	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Potassium, Total	ND		mg/kg	100	5.8	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Selenium, Total	ND		mg/kg	0.80	0.10	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Silver, Total	ND		mg/kg	0.40	0.11	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Sodium, Total	ND		mg/kg	80	1.3	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Thallium, Total	ND		mg/kg	0.80	0.13	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Vanadium, Total	ND		mg/kg	0.40	0.08	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Zinc, Total	ND		mg/kg	2.0	0.12	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM

Prep Information

Digestion Method: EPA 3050B

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG993365-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	04/12/17 07:30	04/12/17 09:42	1,7471B	BV

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710511

Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG991657-2								
Mercury, Total	103		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG992079-2					
Aluminum, Total	108	-	80-120	-	
Antimony, Total	104	-	80-120	-	
Arsenic, Total	108	-	80-120	-	
Barium, Total	104	-	80-120	-	
Beryllium, Total	100	-	80-120	-	
Cadmium, Total	113	-	80-120	-	
Calcium, Total	106	-	80-120	-	
Chromium, Total	104	-	80-120	-	
Cobalt, Total	105	-	80-120	-	
Copper, Total	105	-	80-120	-	
Iron, Total	108	-	80-120	-	
Lead, Total	107	-	80-120	-	
Magnesium, Total	112	-	80-120	-	
Manganese, Total	107	-	80-120	-	
Nickel, Total	105	-	80-120	-	
Potassium, Total	110	-	80-120	-	
Selenium, Total	115	-	80-120	-	
Silver, Total	103	-	80-120	-	
Sodium, Total	109	-	80-120	-	
Thallium, Total	103	-	80-120	-	
Vanadium, Total	107	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710511

Report Date: 04/12/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG992079-2					
Zinc, Total	107	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG993212-2 SRM Lot Number: D091-540					
Aluminum, Total	75	-	52-148	-	
Antimony, Total	179	-	1-200	-	
Arsenic, Total	110	-	80-121	-	
Barium, Total	110	-	84-117	-	
Beryllium, Total	100	-	83-117	-	
Cadmium, Total	105	-	83-117	-	
Calcium, Total	97	-	81-118	-	
Chromium, Total	105	-	80-119	-	
Cobalt, Total	104	-	84-115	-	
Copper, Total	110	-	82-117	-	
Iron, Total	100	-	47-154	-	
Lead, Total	110	-	82-118	-	
Magnesium, Total	91	-	77-123	-	
Manganese, Total	107	-	82-118	-	
Nickel, Total	108	-	83-117	-	
Potassium, Total	88	-	72-128	-	
Selenium, Total	101	-	79-121	-	
Silver, Total	96	-	75-124	-	
Sodium, Total	99	-	73-126	-	
Thallium, Total	99	-	80-121	-	
Vanadium, Total	104	-	78-122	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG993212-2 SRM Lot Number: D091-540					
Zinc, Total	98	-	82-118	-	
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG993365-2 SRM Lot Number: D091-540					
Mercury, Total	89	-	72-128	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG991657-3 WG991657-4 QC Sample: L1710305-01 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00487	98		0.00484	97		75-125	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG992079-3 QC Sample: L1710422-04 Client ID: MS Sample										
Aluminum, Total	ND	2	2.17	108		-	-	75-125	-	20
Antimony, Total	0.0048	0.5	0.5586	111		-	-	75-125	-	20
Arsenic, Total	0.0011	0.12	0.1282	106		-	-	75-125	-	20
Barium, Total	0.0112	2	2.065	103		-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.05078	102		-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.05636	110		-	-	75-125	-	20
Calcium, Total	75.8	10	79.8	**40**	Q	-	-	75-125	-	20
Chromium, Total	0.0008J	0.2	0.2002	100		-	-	75-125	-	20
Cobalt, Total	0.0030	0.5	0.5218	104		-	-	75-125	-	20
Copper, Total	ND	0.25	0.2622	105		-	-	75-125	-	20
Iron, Total	ND	1	1.12	112		-	-	75-125	-	20
Lead, Total	ND	0.51	0.5383	106		-	-	75-125	-	20
Magnesium, Total	9.70	10	20.2	105		-	-	75-125	-	20
Manganese, Total	0.01132	0.5	0.5162	101		-	-	75-125	-	20
Nickel, Total	0.0006J	0.5	0.5218	104		-	-	75-125	-	20
Potassium, Total	3.06	10	13.7	106		-	-	75-125	-	20
Selenium, Total	ND	0.12	0.127	106		-	-	75-125	-	20
Silver, Total	ND	0.05	0.04883	98		-	-	75-125	-	20
Sodium, Total	563.	10	530	**0**	Q	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.1222	102		-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.5174	103		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG992079-3 QC Sample: L1710422-04 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.5110	102	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG993212-3 WG993212-4 QC Sample: L1710996-04 Client ID: MS Sample												
Aluminum, Total	5900	190	6700	**420**	Q	5700	**0**	Q	75-125	16		20
Antimony, Total	ND	47.6	44	92		44	93		75-125	0		20
Arsenic, Total	6.1	11.4	18	104		17	96		75-125	6		20
Barium, Total	62.	190	250	99		230	88		75-125	8		20
Beryllium, Total	0.20J	4.76	4.3	90		4.3	91		75-125	0		20
Cadmium, Total	ND	4.86	4.4	90		4.4	91		75-125	0		20
Calcium, Total	57000	953	60000	**315**	Q	47000	**0**	Q	75-125	**24**	Q	20
Chromium, Total	9.3	19	26	88		23	**72**	Q	75-125	12		20
Cobalt, Total	2.9	47.6	44	86		43	84		75-125	2		20
Copper, Total	15.	23.8	44	122		42	114		75-125	5		20
Iron, Total	8000	95.3	8600	**630**	Q	6600	**0**	Q	75-125	**26**	Q	20
Lead, Total	82.	48.6	140	119		140	120		75-125	0		20
Magnesium, Total	7300	953	8800	**157**	Q	6800	**0**	Q	75-125	**26**	Q	20
Manganese, Total	290	47.6	340	105		250	**0**	Q	75-125	**31**	Q	20
Nickel, Total	12.	47.6	53	86		48	76		75-125	10		20
Potassium, Total	740	953	1800	111		1600	91		75-125	12		20
Selenium, Total	0.47J	11.4	11	96		11	97		75-125	0		20
Silver, Total	ND	28.6	28	98		28	98		75-125	0		20
Sodium, Total	600	953	1600	105		1600	105		75-125	0		20
Thallium, Total	ND	11.4	8.8	77		9.6	84		75-125	9		20
Vanadium, Total	15.	47.6	60	94		58	91		75-125	3		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG993212-3 WG993212-4 QC Sample: L1710996-04 Client ID: MS Sample										
Zinc, Total	34.	47.6	81	99		89	116	75-125	9	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG993365-3 QC Sample: L1710511-01 Client ID: DS01_1-2										
Mercury, Total	3.6	0.162	4.8	**739**	Q	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG992079-4 QC Sample: L1710422-04 Client ID: DUP Sample						
Manganese, Total	0.01132	0.01091	mg/l	4		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG993365-4 QC Sample: L1710511-01 Client ID: DS01_1-2						
Mercury, Total	3.6	3.3	mg/kg	9		20

INORGANICS
&
MISCELLANEOUS

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-01
Client ID: DS01_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil

Date Collected: 04/05/17 13:00
Date Received: 04/05/17
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	77.4		%	0.100	NA	1	-	04/06/17 11:11	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.21	1	04/07/17 10:50	04/07/17 16:27	1,9010C/9012B	DE
Chromium, Hexavalent	0.22	J	mg/kg	1.0	0.21	1	04/08/17 15:10	04/10/17 12:41	1,7196A	NH

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-02
Client ID: DS02_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil

Date Collected: 04/05/17 13:10
Date Received: 04/05/17
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	78.3		%	0.100	NA	1	-	04/06/17 11:11	121,2540G	RI
Cyanide, Total	0.50	J	mg/kg	1.3	0.21	1	04/07/17 10:50	04/07/17 16:53	1,9010C/9012B	DE
Chromium, Hexavalent	0.28	J	mg/kg	1.0	0.20	1	04/08/17 15:10	04/10/17 12:41	1,7196A	NH

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

SAMPLE RESULTS

Lab ID: L1710511-03
Client ID: FB01_040517
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Water

Date Collected: 04/05/17 15:30
Date Received: 04/05/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	04/10/17 11:10	04/10/17 16:39	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/06/17 04:26	04/06/17 04:43	1,7196A	VB

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710511
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG991549-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/06/17 04:26	04/06/17 04:42	1,7196A	VB
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG992064-1										
Cyanide, Total	ND		mg/kg	0.54	0.09	1	04/07/17 10:50	04/07/17 16:17	1,9010C/9012B	DE
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG992427-1										
Chromium, Hexavalent	ND		mg/kg	0.80	0.16	1	04/08/17 15:10	04/10/17 12:31	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG992725-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	04/10/17 13:15	04/10/17 16:06	1,9010C/9012B	JO

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG991549-2								
Chromium, Hexavalent	103		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG992064-2 WG992064-3								
Cyanide, Total	91		87		80-120	4		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG992427-2								
Chromium, Hexavalent	80		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG992725-2 WG992725-3								
Cyanide, Total	105		103		85-115	2		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG991549-3 QC Sample: L1710511-03 Client ID: FB01_040517												
Chromium, Hexavalent	ND	0.1	0.107	107		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG992064-4 WG992064-5 QC Sample: L1710459-01 Client ID: MS Sample												
Cyanide, Total	0.63J	12	12	94		12	97		65-135	0		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG992427-4 QC Sample: L1710511-01 Client ID: DS01_1-2												
Chromium, Hexavalent	0.22J	1410	1400	99		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG992725-4 WG992725-5 QC Sample: L1710998-02 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.196	98		0.208	104		80-120	6		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG991549-4 QC Sample: L1710511-03 Client ID: FB01_040517						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG991686-1 QC Sample: L1710106-01 Client ID: DUP Sample						
Solids, Total	82.8	83.5	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG992427-6 QC Sample: L1710511-01 Client ID: DS01_1-2						
Chromium, Hexavalent	0.22J	ND	mg/kg	NC		20

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 04/06/2017 04:30

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1710511-01A	Vial MeOH preserved	A	N/A	4.9	Y	Absent	NYTCL-8260HLW(14)
L1710511-01B	Vial water preserved	A	N/A	4.9	Y	Absent	NYTCL-8260HLW(14)
L1710511-01C	Vial water preserved	A	N/A	4.9	Y	Absent	NYTCL-8260HLW(14)
L1710511-01D	Glass 120ml/4oz unpreserved	A	N/A	4.9	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1710511-01E	Glass 120ml/4oz unpreserved	A	N/A	4.9	Y	Absent	NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1710511-01F	Glass 250ml/8oz unpreserved	A	N/A	4.9	Y	Absent	NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1710511-02A	Vial MeOH preserved	A	N/A	4.9	Y	Absent	NYTCL-8260HLW(14)
L1710511-02B	Vial water preserved	A	N/A	4.9	Y	Absent	NYTCL-8260HLW(14)
L1710511-02C	Vial water preserved	A	N/A	4.9	Y	Absent	NYTCL-8260HLW(14)
L1710511-02D	Glass 120ml/4oz unpreserved	A	N/A	4.9	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710511
Report Date: 04/12/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1710511-02E	Glass 120ml/4oz unpreserved	A	N/A	4.9	Y	Absent	NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1710511-02F	Glass 250ml/8oz unpreserved	A	N/A	4.9	Y	Absent	NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1710511-03A	Vial HCl preserved	A	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1710511-03B	Vial HCl preserved	A	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1710511-03C	Vial HCl preserved	A	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1710511-03D	Plastic 250ml HNO3 preserved	A	<2	4.9	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)
L1710511-03E	Amber 1000ml unpreserved	A	7	4.9	Y	Absent	NYTCL-8082-1200ML(7)
L1710511-03F	Amber 1000ml unpreserved	A	7	4.9	Y	Absent	NYTCL-8082-1200ML(7)
L1710511-03G	Amber 1000ml unpreserved	A	7	4.9	Y	Absent	HERB-APA(7)
L1710511-03H	Amber 1000ml unpreserved	A	7	4.9	Y	Absent	HERB-APA(7)
L1710511-03I	Amber 500ml unpreserved	A	7	4.9	Y	Absent	NYTCL-8081(7)
L1710511-03J	Amber 500ml unpreserved	A	7	4.9	Y	Absent	NYTCL-8081(7)
L1710511-03K	Amber 1000ml unpreserved	A	7	4.9	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1710511-03L	Amber 1000ml unpreserved	A	7	4.9	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1710511-03M	Plastic 500ml unpreserved split	A	7	4.9	Y	Absent	HEXCR-7196(1)
L1710511-03N	Plastic 250ml NaOH preserved spl	A	>12	4.9	Y	Absent	TCN-9010(14)

*Values in parentheses indicate holding time in days

Project Name:	450 UNION STREET	**Lab Number:**	L1710511
Project Number:	170301202	**Report Date:**	04/12/17

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers

Project Name:	450 UNION STREET	**Lab Number:**	L1710511
Project Number:	170301202	**Report Date:**	04/12/17

Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	450 UNION STREET	**Lab Number:**	L1710511
Project Number:	170301202	**Report Date:**	04/12/17

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

-revised 4/12/17 ks

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 4/5/17

ALPHA Job #: L1710511

Client Information
Client: Langan Engineering
Address: 360 W 31st Street, Manhattan, NY
Phone: 212-479-5400
Fax:
Email: nrice@langan.com

Project Information
Project Name: 450 Union Street
Project Location: 450 Union Street, Brooklyn, NY
Project # 170301202
(Use Project name as Project #) ☐
Project Manager: Nicole Rice
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	SVOCs	Pesticides	Herbicides	PCBs	Metals	Hex/Tri Cr	Total Cyanide	Sample Specific Comments	Total Bottle
10511-01	DS01_1-2	4/5/17	13:00	Soil	KT	X	X	X	X	X	X	X	X		
02	DS02_1-2	4/5/17	13:10	Soil	KT	X	X	X	X	X	X	X	X		
03	FB01_040517	4/5/17	15:30	water	KT	X	X	X	X	X	X	X	X		

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Kyle Twombly	4/5/17 15:45	Mike Sudol AAL	4/5/17 15:45
Mike Sudol AAL	4/5/17 1907	Paul Mazella	4/5/17 1824
Paul Mazella	4/5/17 2305		4/5/17 2305

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 4/5/17

ALPHA Job #: L1710511

Client Information
Client: Langan Engineering
Address: 360 W 31st Street, Manhattan, NY
Phone: 212-479-5400
Fax:
Email: nrice@langan.com

Project Information
Project Name: 450 Union Street
Project Location: 450 Union Street, Brooklyn, NY
Project # 170301202
(Use Project name as Project #) ☐
Project Manager: Nicole Rice
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	SVOCs	Pesticides	Herbicides PCBs	Metals				Total Bottle	Sample Specific Comments
10511-01	DS01_1-2	4/5/17	13:00	Soil	KT	X	X	X	X	X	X				
02	DS02_1-2	4/5/17	13:10	Soil	KT	X	X	X	X	X	X				
03	FB01_040517	4/5/17	15:30	water	KT	X	X	X	X	X	X				

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Kyle Twombly	4/5/17 15:45	Mike Sudol AAL	4/5/17 15:45
Mike Sudol AAL	4/5/17 1907	Paul Mazella	4/5/17 1824
Paul Mazella	4/5/17 2305	Client via Mail	4/5/17 2305

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1710724
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Nicole Rice
Phone:	(212) 479-5400
Project Name:	450 UNION STREET
Project Number:	170301202
Report Date:	04/13/17

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), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1710724-01	DS03_1-2	SOIL	450 UNION STREET, BROOKLYN, NY	04/06/17 14:00	04/06/17

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710724
Report Date: 04/13/17

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.

Sample Receipt

The analyses performed were specified by the client.

Metals

L1710724-01: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

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: Melissa Cripps

Title: Technical Director/Representative Date: 04/13/17

ORGANICS

VOLATILES

Project Name: 450 UNION STREET **Lab Number:** L1710724

Project Number: 170301202 **Report Date:** 04/13/17

SAMPLE RESULTS

Lab ID: L1710724-01
Client ID: DS03_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/11/17 17:16
Analyst: JC
Percent Solids: 64%

Date Collected: 04/06/17 14:00
Date Received: 04/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.34	1
Chloroform	ND		ug/kg	1.9	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.43	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.39	1
Tetrachloroethene	ND		ug/kg	1.2	0.38	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.2	0.52	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.43	1
Bromodichloromethane	ND		ug/kg	1.2	0.38	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.29	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.26	1
1,1-Dichloropropene	ND		ug/kg	6.2	0.41	1
Bromoform	ND		ug/kg	5.0	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Benzene	ND		ug/kg	1.2	0.24	1
Toluene	0.31	J	ug/kg	1.9	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.21	1
Chloromethane	ND		ug/kg	6.2	0.54	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.39	1
Chloroethane	ND		ug/kg	2.5	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.46	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.30	1
Trichloroethene	ND		ug/kg	1.2	0.38	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	0.23	1

Project Name: 450 UNION STREET **Lab Number:** L1710724

Project Number: 170301202 **Report Date:** 04/13/17

SAMPLE RESULTS

Lab ID: L1710724-01 Date Collected: 04/06/17 14:00

Client ID: DS03_1-2 Date Received: 04/06/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.2	0.27	1
1,4-Dichlorobenzene	ND		ug/kg	6.2	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.19	1
p/m-Xylene	ND		ug/kg	2.5	0.44	1
o-Xylene	ND		ug/kg	2.5	0.42	1
Xylenes, Total	ND		ug/kg	2.5	0.42	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.42	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.30	1
Dibromomethane	ND		ug/kg	12	0.30	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.62	1
Acetone	7.2	J	ug/kg	12	2.8	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.86	1
Vinyl acetate	ND		ug/kg	12	0.19	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.22	1
2-Hexanone	ND		ug/kg	12	0.83	1
Bromochloromethane	ND		ug/kg	6.2	0.44	1
2,2-Dichloropropane	ND		ug/kg	6.2	0.56	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.25	1
1,3-Dichloropropane	ND		ug/kg	6.2	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.39	1
Bromobenzene	ND		ug/kg	6.2	0.27	1
n-Butylbenzene	ND		ug/kg	1.2	0.28	1
sec-Butylbenzene	ND		ug/kg	1.2	0.27	1
tert-Butylbenzene	ND		ug/kg	6.2	0.31	1
o-Chlorotoluene	ND		ug/kg	6.2	0.27	1
p-Chlorotoluene	ND		ug/kg	6.2	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	0.49	1
Hexachlorobutadiene	ND		ug/kg	6.2	0.43	1
Isopropylbenzene	ND		ug/kg	1.2	0.24	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.25	1
Naphthalene	ND		ug/kg	6.2	0.17	1
Acrylonitrile	ND		ug/kg	12	0.64	1
n-Propylbenzene	ND		ug/kg	1.2	0.27	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	0.20	1

Project Name: 450 UNION STREET **Lab Number:** L1710724

Project Number: 170301202 **Report Date:** 04/13/17

SAMPLE RESULTS

Lab ID: L1710724-01 Date Collected: 04/06/17 14:00

Client ID: DS03_1-2 Date Received: 04/06/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	0.23	1
1,4-Dioxane	ND		ug/kg	50	18.	1
p-Diethylbenzene	ND		ug/kg	5.0	5.0	1
p-Ethyltoluene	ND		ug/kg	5.0	0.29	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.0	0.19	1
Ethyl ether	ND		ug/kg	6.2	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	99		70-130

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/17 08:50
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG993061-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710724
Report Date: 04/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/17 08:50
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG993061-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/17 08:50
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG993061-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	0.18	J	ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/17 08:50
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG993061-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710724

Report Date: 04/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG993061-3 WG993061-4								
Methylene chloride	86		91		70-130	6		30
1,1-Dichloroethane	96		100		70-130	4		30
Chloroform	97		102		70-130	5		30
Carbon tetrachloride	89		93		70-130	4		30
1,2-Dichloropropane	99		105		70-130	6		30
Dibromochloromethane	94		100		70-130	6		30
1,1,2-Trichloroethane	99		106		70-130	7		30
Tetrachloroethene	82		87		70-130	6		30
Chlorobenzene	88		92		70-130	4		30
Trichlorofluoromethane	95		97		70-139	2		30
1,2-Dichloroethane	106		112		70-130	6		30
1,1,1-Trichloroethane	92		97		70-130	5		30
Bromodichloromethane	99		103		70-130	4		30
trans-1,3-Dichloropropene	97		103		70-130	6		30
cis-1,3-Dichloropropene	100		106		70-130	6		30
1,1-Dichloropropene	93		97		70-130	4		30
Bromoform	96		101		70-130	5		30
1,1,2,2-Tetrachloroethane	105		109		70-130	4		30
Benzene	92		97		70-130	5		30
Toluene	84		89		70-130	6		30
Ethylbenzene	86		92		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710724

Report Date: 04/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG993061-3 WG993061-4								
Chloromethane	92		94		52-130	2		30
Bromomethane	93		93		57-147	0		30
Vinyl chloride	88		91		67-130	3		30
Chloroethane	90		94		50-151	4		30
1,1-Dichloroethene	73		72		65-135	1		30
trans-1,2-Dichloroethene	90		94		70-130	4		30
Trichloroethene	90		95		70-130	5		30
1,2-Dichlorobenzene	92		96		70-130	4		30
1,3-Dichlorobenzene	89		92		70-130	3		30
1,4-Dichlorobenzene	89		92		70-130	3		30
Methyl tert butyl ether	107		114		66-130	6		30
p/m-Xylene	89		93		70-130	4		30
o-Xylene	91		96		70-130	5		30
cis-1,2-Dichloroethene	92		98		70-130	6		30
Dibromomethane	103		109		70-130	6		30
Styrene	94		99		70-130	5		30
Dichlorodifluoromethane	83		85		30-146	2		30
Acetone	129		129		54-140	0		30
Carbon disulfide	**139**	Q	**241**	Q	59-130	**54**	Q	30
2-Butanone	118		123		70-130	4		30
Vinyl acetate	104		108		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710724

Report Date: 04/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG993061-3 WG993061-4								
4-Methyl-2-pentanone	102		105		70-130	3		30
1,2,3-Trichloropropane	105		111		68-130	6		30
2-Hexanone	106		106		70-130	0		30
Bromochloromethane	98		104		70-130	6		30
2,2-Dichloropropane	93		96		70-130	3		30
1,2-Dibromoethane	98		103		70-130	5		30
1,3-Dichloropropane	100		104		69-130	4		30
1,1,1,2-Tetrachloroethane	91		96		70-130	5		30
Bromobenzene	88		92		70-130	4		30
n-Butylbenzene	88		91		70-130	3		30
sec-Butylbenzene	86		91		70-130	6		30
tert-Butylbenzene	86		90		70-130	5		30
o-Chlorotoluene	87		91		70-130	4		30
p-Chlorotoluene	89		93		70-130	4		30
1,2-Dibromo-3-chloropropane	99		104		68-130	5		30
Hexachlorobutadiene	88		89		67-130	1		30
Isopropylbenzene	84		89		70-130	6		30
p-Isopropyltoluene	87		90		70-130	3		30
Naphthalene	100		102		70-130	2		30
Acrylonitrile	122		123		70-130	1		30
n-Propylbenzene	86		89		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG993061-3 WG993061-4								
1,2,3-Trichlorobenzene	96		99		70-130	3		30
1,2,4-Trichlorobenzene	96		96		70-130	0		30
1,3,5-Trimethylbenzene	87		92		70-130	6		30
1,2,4-Trimethylbenzene	90		93		70-130	3		30
1,4-Dioxane	133		135		65-136	1		30
p-Diethylbenzene	86		91		70-130	6		30
p-Ethyltoluene	86		89		70-130	3		30
1,2,4,5-Tetramethylbenzene	90		93		70-130	3		30
Ethyl ether	99		101		67-130	2		30
trans-1,4-Dichloro-2-butene	97		103		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	111		109		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	102		102		70-130
Dibromofluoromethane	102		103		70-130

SEMIVOLATILES

Project Name: 450 UNION STREET **Lab Number:** L1710724

Project Number: 170301202 **Report Date:** 04/13/17

SAMPLE RESULTS

Lab ID: L1710724-01
Client ID: DS03_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/10/17 18:06
Analyst: KV
Percent Solids: 64%

Date Collected: 04/06/17 14:00
Date Received: 04/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/08/17 08:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	130	J	ug/kg	200	26.	1
1,2,4-Trichlorobenzene	ND		ug/kg	260	29.	1
Hexachlorobenzene	ND		ug/kg	150	29.	1
Bis(2-chloroethyl)ether	ND		ug/kg	230	35.	1
2-Chloronaphthalene	ND		ug/kg	260	25.	1
1,2-Dichlorobenzene	ND		ug/kg	260	46.	1
1,3-Dichlorobenzene	ND		ug/kg	260	44.	1
1,4-Dichlorobenzene	ND		ug/kg	260	45.	1
3,3'-Dichlorobenzidine	ND		ug/kg	260	68.	1
2,4-Dinitrotoluene	ND		ug/kg	260	51.	1
2,6-Dinitrotoluene	ND		ug/kg	260	44.	1
Fluoranthene	2700		ug/kg	150	29.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	260	27.	1
4-Bromophenyl phenyl ether	ND		ug/kg	260	39.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	310	44.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	280	26.	1
Hexachlorobutadiene	ND		ug/kg	260	37.	1
Hexachlorocyclopentadiene	ND		ug/kg	730	230	1
Hexachloroethane	ND		ug/kg	200	41.	1
Isophorone	ND		ug/kg	230	33.	1
Naphthalene	93	J	ug/kg	260	31.	1
Nitrobenzene	ND		ug/kg	230	38.	1
NDPA/DPA	ND		ug/kg	200	29.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	260	40.	1
Bis(2-ethylhexyl)phthalate	600		ug/kg	260	88.	1
Butyl benzyl phthalate	ND		ug/kg	260	64.	1
Di-n-butylphthalate	ND		ug/kg	260	48.	1
Di-n-octylphthalate	ND		ug/kg	260	87.	1
Diethyl phthalate	ND		ug/kg	260	24.	1
Dimethyl phthalate	ND		ug/kg	260	54.	1

Project Name: 450 UNION STREET **Lab Number:** L1710724

Project Number: 170301202 **Report Date:** 04/13/17

SAMPLE RESULTS

Lab ID: L1710724-01 Date Collected: 04/06/17 14:00

Client ID: DS03_1-2 Date Received: 04/06/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	1300		ug/kg	150	29.	1
Benzo(a)pyrene	1300		ug/kg	200	62.	1
Benzo(b)fluoranthene	1900		ug/kg	150	43.	1
Benzo(k)fluoranthene	670		ug/kg	150	41.	1
Chrysene	1400		ug/kg	150	27.	1
Acenaphthylene	100	J	ug/kg	200	40.	1
Anthracene	360		ug/kg	150	50.	1
Benzo(ghi)perylene	870		ug/kg	200	30.	1
Fluorene	130	J	ug/kg	260	25.	1
Phenanthrene	1700		ug/kg	150	31.	1
Dibenzo(a,h)anthracene	220		ug/kg	150	30.	1
Indeno(1,2,3-cd)pyrene	900		ug/kg	200	36.	1
Pyrene	2200		ug/kg	150	25.	1
Biphenyl	ND		ug/kg	580	59.	1
4-Chloroaniline	ND		ug/kg	260	47.	1
2-Nitroaniline	ND		ug/kg	260	49.	1
3-Nitroaniline	ND		ug/kg	260	48.	1
4-Nitroaniline	ND		ug/kg	260	110	1
Dibenzofuran	85	J	ug/kg	260	24.	1
2-Methylnaphthalene	36	J	ug/kg	310	31.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	260	27.	1
Acetophenone	ND		ug/kg	260	32.	1
2,4,6-Trichlorophenol	ND		ug/kg	150	48.	1
p-Chloro-m-cresol	ND		ug/kg	260	38.	1
2-Chlorophenol	ND		ug/kg	260	30.	1
2,4-Dichlorophenol	ND		ug/kg	230	41.	1
2,4-Dimethylphenol	ND		ug/kg	260	84.	1
2-Nitrophenol	ND		ug/kg	550	96.	1
4-Nitrophenol	ND		ug/kg	360	100	1
2,4-Dinitrophenol	ND		ug/kg	1200	120	1
4,6-Dinitro-o-cresol	ND		ug/kg	660	120	1
Pentachlorophenol	ND		ug/kg	200	56.	1
Phenol	ND		ug/kg	260	39.	1
2-Methylphenol	ND		ug/kg	260	40.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	370	40.	1
2,4,5-Trichlorophenol	ND		ug/kg	260	49.	1
Benzoic Acid	ND		ug/kg	830	260	1
Benzyl Alcohol	ND		ug/kg	260	78.	1
Carbazole	300		ug/kg	260	25.	1

Project Name: 450 UNION STREET **Lab Number:** L1710724

Project Number: 170301202 **Report Date:** 04/13/17

SAMPLE RESULTS

Lab ID: L1710724-01 Date Collected: 04/06/17 14:00

Client ID: DS03_1-2 Date Received: 04/06/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		25-120
Phenol-d6	35		10-120
Nitrobenzene-d5	44		23-120
2-Fluorobiphenyl	39		30-120
2,4,6-Tribromophenol	46		10-136
4-Terphenyl-d14	25		18-120

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/09/17 18:50
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 04/08/17 08:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG992351-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	140	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	140	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	140	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/09/17 18:50
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 04/08/17 08:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG992351-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	30.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	140	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/09/17 18:50
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 04/08/17 08:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG992351-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	102		10-136
4-Terphenyl-d14	104		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710724

Report Date: 04/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG992351-2 WG992351-3								
Acenaphthene	87		90		31-137	3		50
1,2,4-Trichlorobenzene	82		85		38-107	4		50
Hexachlorobenzene	96		100		40-140	4		50
Bis(2-chloroethyl)ether	76		78		40-140	3		50
2-Chloronaphthalene	90		92		40-140	2		50
1,2-Dichlorobenzene	75		78		40-140	4		50
1,3-Dichlorobenzene	74		77		40-140	4		50
1,4-Dichlorobenzene	74		77		28-104	4		50
3,3'-Dichlorobenzidine	53		56		40-140	6		50
2,4-Dinitrotoluene	97		100		40-132	3		50
2,6-Dinitrotoluene	99		103		40-140	4		50
Fluoranthene	91		95		40-140	4		50
4-Chlorophenyl phenyl ether	91		94		40-140	3		50
4-Bromophenyl phenyl ether	96		98		40-140	2		50
Bis(2-chloroisopropyl)ether	75		78		40-140	4		50
Bis(2-chloroethoxy)methane	82		83		40-117	1		50
Hexachlorobutadiene	88		89		40-140	1		50
Hexachlorocyclopentadiene	94		100		40-140	6		50
Hexachloroethane	74		78		40-140	5		50
Isophorone	81		82		40-140	1		50
Naphthalene	81		83		40-140	2		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG992351-2 WG992351-3								
Nitrobenzene	79		80		40-140	1		50
NDPA/DPA	92		96		36-157	4		50
n-Nitrosodi-n-propylamine	79		80		32-121	1		50
Bis(2-ethylhexyl)phthalate	91		93		40-140	2		50
Butyl benzyl phthalate	91		95		40-140	4		50
Di-n-butylphthalate	90		94		40-140	4		50
Di-n-octylphthalate	96		98		40-140	2		50
Diethyl phthalate	90		93		40-140	3		50
Dimethyl phthalate	96		97		40-140	1		50
Benzo(a)anthracene	90		91		40-140	1		50
Benzo(a)pyrene	96		98		40-140	2		50
Benzo(b)fluoranthene	97		98		40-140	1		50
Benzo(k)fluoranthene	93		95		40-140	2		50
Chrysene	90		90		40-140	0		50
Acenaphthylene	91		92		40-140	1		50
Anthracene	90		94		40-140	4		50
Benzo(ghi)perylene	90		94		40-140	4		50
Fluorene	89		92		40-140	3		50
Phenanthrene	88		92		40-140	4		50
Dibenzo(a,h)anthracene	90		94		40-140	4		50
Indeno(1,2,3-cd)pyrene	91		96		40-140	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710724

Report Date: 04/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG992351-2 WG992351-3								
Pyrene	91		94		35-142	3		50
Biphenyl	93		95		54-104	2		50
4-Chloroaniline	46		45		40-140	2		50
2-Nitroaniline	95		98		47-134	3		50
3-Nitroaniline	67		72		26-129	7		50
4-Nitroaniline	88		90		41-125	2		50
Dibenzofuran	87		90		40-140	3		50
2-Methylnaphthalene	86		87		40-140	1		50
1,2,4,5-Tetrachlorobenzene	95		98		40-117	3		50
Acetophenone	85		87		14-144	2		50
2,4,6-Trichlorophenol	101		102		30-130	1		50
p-Chloro-m-cresol	94		97		26-103	3		50
2-Chlorophenol	84		88		25-102	5		50
2,4-Dichlorophenol	91		94		30-130	3		50
2,4-Dimethylphenol	95		97		30-130	2		50
2-Nitrophenol	86		89		30-130	3		50
4-Nitrophenol	91		94		11-114	3		50
2,4-Dinitrophenol	70		63		4-130	11		50
4,6-Dinitro-o-cresol	89		92		10-130	3		50
Pentachlorophenol	77		79		17-109	3		50
Phenol	74		77		26-90	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG992351-2 WG992351-3								
2-Methylphenol	84		88		30-130.	5		50
3-Methylphenol/4-Methylphenol	85		87		30-130	2		50
2,4,5-Trichlorophenol	99		102		30-130	3		50
Benzoic Acid	23		17		10-110	30		50
Benzyl Alcohol	83		85		40-140	2		50
Carbazole	90		93		54-128	3		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	81		83		25-120
Phenol-d6	82		84		10-120
Nitrobenzene-d5	79		81		23-120
2-Fluorobiphenyl	92		92		30-120
2,4,6-Tribromophenol	101		109		10-136
4-Terphenyl-d14	94		99		18-120

PCBS

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710724
Report Date: 04/13/17

SAMPLE RESULTS

Lab ID: L1710724-01
Client ID: DS03_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/11/17 16:29
Analyst: JA
Percent Solids: 64%

Date Collected: 04/06/17 14:00
Date Received: 04/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/08/17 04:20
Cleanup Method: EPA 3665A
Cleanup Date: 04/09/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/09/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	49.2	3.88	1	A
Aroclor 1221	ND		ug/kg	49.2	4.53	1	A
Aroclor 1232	ND		ug/kg	49.2	5.76	1	A
Aroclor 1242	ND		ug/kg	49.2	6.02	1	A
Aroclor 1248	ND		ug/kg	49.2	4.15	1	A
Aroclor 1254	ND		ug/kg	49.2	4.04	1	A
Aroclor 1260	ND		ug/kg	49.2	3.74	1	A
Aroclor 1262	ND		ug/kg	49.2	2.44	1	A
Aroclor 1268	ND		ug/kg	49.2	7.13	1	A
PCBs, Total	ND		ug/kg	49.2	2.44	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/11/17 15:52
Analyst: JA

Extraction Method: EPA 3546
Extraction Date: 04/08/17 04:20
Cleanup Method: EPA 3665A
Cleanup Date: 04/09/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/09/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG992314-1						
Aroclor 1016	ND		ug/kg	31.6	2.49	A
Aroclor 1221	ND		ug/kg	31.6	2.91	A
Aroclor 1232	ND		ug/kg	31.6	3.70	A
Aroclor 1242	ND		ug/kg	31.6	3.86	A
Aroclor 1248	ND		ug/kg	31.6	2.66	A
Aroclor 1254	ND		ug/kg	31.6	2.59	A
Aroclor 1260	ND		ug/kg	31.6	2.40	A
Aroclor 1262	ND		ug/kg	31.6	1.56	A
Aroclor 1268	ND		ug/kg	31.6	4.58	A
PCBs, Total	ND		ug/kg	31.6	1.56	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	52		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710724

Report Date: 04/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG992314-2 WG992314-3									
Aroclor 1016	73		77		40-140	5		50	A
Aroclor 1260	68		73		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		77		30-150	A
Decachlorobiphenyl	52		56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		73		30-150	B
Decachlorobiphenyl	55		59		30-150	B

PESTICIDES

Project Name: 450 UNION STREET **Lab Number:** L1710724

Project Number: 170301202 **Report Date:** 04/13/17

SAMPLE RESULTS

Lab ID: L1710724-01
Client ID: DS03_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/10/17 20:44
Analyst: RL
Percent Solids: 64%

Date Collected: 04/06/17 14:00
Date Received: 04/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/08/17 13:59
Cleanup Method: EPA 3620B
Cleanup Date: 04/09/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.46	0.482	1	A
Lindane	ND		ug/kg	1.02	0.458	1	A
Alpha-BHC	ND		ug/kg	1.02	0.291	1	A
Beta-BHC	ND		ug/kg	2.46	0.933	1	A
Heptachlor	ND		ug/kg	1.23	0.551	1	A
Aldrin	ND		ug/kg	2.46	0.866	1	A
Heptachlor epoxide	ND		ug/kg	4.61	1.38	1	A
Endrin	ND		ug/kg	1.02	0.420	1	A
Endrin aldehyde	ND		ug/kg	3.07	1.08	1	A
Endrin ketone	ND		ug/kg	2.46	0.633	1	A
Dieldrin	9.80	PI	ug/kg	1.54	0.769	1	A
4,4'-DDE	8.14		ug/kg	2.46	0.569	1	A
4,4'-DDD	ND		ug/kg	2.46	0.877	1	A
4,4'-DDT	2.92	J	ug/kg	4.61	1.98	1	B
Endosulfan I	ND		ug/kg	2.46	0.581	1	A
Endosulfan II	ND		ug/kg	2.46	0.822	1	A
Endosulfan sulfate	ND		ug/kg	1.02	0.488	1	A
Methoxychlor	ND		ug/kg	4.61	1.43	1	A
Toxaphene	ND		ug/kg	46.1	12.9	1	A
cis-Chlordane	31.3	P	ug/kg	3.07	0.857	1	A
trans-Chlordane	12.1	PI	ug/kg	3.07	0.812	1	A
Chlordane	165		ug/kg	20.0	8.15	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	70		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	87		30-150	A

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710724
Report Date: 04/13/17

SAMPLE RESULTS

Lab ID: L1710724-01
Client ID: DS03_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 04/11/17 23:18
Analyst: KEG
Percent Solids: 64%
Methylation Date: 04/11/17 02:47

Date Collected: 04/06/17 14:00
Date Received: 04/06/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 04/09/17 16:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	259	16.3	1	A
2,4,5-T	ND		ug/kg	259	8.03	1	A
2,4,5-TP (Silvex)	ND		ug/kg	259	6.89	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	36		30-150	A
DCAA	30		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/10/17 18:25
Analyst: RL

Extraction Method: EPA 3546
Extraction Date: 04/08/17 13:59
Cleanup Method: EPA 3620B
Cleanup Date: 04/09/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG992409-1						
Delta-BHC	ND		ug/kg	1.51	0.296	A
Lindane	ND		ug/kg	0.629	0.281	A
Alpha-BHC	ND		ug/kg	0.629	0.179	A
Beta-BHC	ND		ug/kg	1.51	0.572	A
Heptachlor	ND		ug/kg	0.755	0.338	A
Aldrin	ND		ug/kg	1.51	0.531	A
Heptachlor epoxide	ND		ug/kg	2.83	0.849	A
Endrin	ND		ug/kg	0.629	0.258	A
Endrin aldehyde	ND		ug/kg	1.89	0.660	A
Endrin ketone	ND		ug/kg	1.51	0.389	A
Dieldrin	ND		ug/kg	0.943	0.472	A
4,4'-DDE	ND		ug/kg	1.51	0.349	A
4,4'-DDD	ND		ug/kg	1.51	0.538	A
4,4'-DDT	ND		ug/kg	2.83	1.21	A
Endosulfan I	ND		ug/kg	1.51	0.357	A
Endosulfan II	ND		ug/kg	1.51	0.504	A
Endosulfan sulfate	ND		ug/kg	0.629	0.299	A
Methoxychlor	ND		ug/kg	2.83	0.880	A
Toxaphene	ND		ug/kg	28.3	7.92	A
cis-Chlordane	ND		ug/kg	1.89	0.526	A
trans-Chlordane	ND		ug/kg	1.89	0.498	A
Chlordane	ND		ug/kg	12.3	5.00	A

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/10/17 18:25
Analyst: RL

Extraction Method: EPA 3546
Extraction Date: 04/08/17 13:59
Cleanup Method: EPA 3620B
Cleanup Date: 04/09/17

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG992409-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		30-150	B
Decachlorobiphenyl	79		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	59		30-150	A

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 04/11/17 22:00
Analyst: KEG

Extraction Method: EPA 8151A
Extraction Date: 04/09/17 16:45

Methylation Date: 04/11/17 02:47

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG992524-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.03	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	76		30-150	A
DCAA	57		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG992409-2 WG992409-3									
Delta-BHC	102		102		30-150	0		30	A
Lindane	91		92		30-150	1		30	A
Alpha-BHC	96		98		30-150	2		30	A
Beta-BHC	92		96		30-150	4		30	A
Heptachlor	93		92		30-150	1		30	A
Aldrin	86		88		30-150	2		30	A
Heptachlor epoxide	87		86		30-150	1		30	A
Endrin	95		95		30-150	0		30	A
Endrin aldehyde	84		84		30-150	0		30	A
Endrin ketone	96		96		30-150	0		30	A
Dieldrin	98		98		30-150	0		30	A
4,4'-DDE	100		99		30-150	1		30	A
4,4'-DDD	96		96		30-150	0		30	A
4,4'-DDT	95		96		30-150	1		30	A
Endosulfan I	91		91		30-150	0		30	A
Endosulfan II	94		94		30-150	0		30	A
Endosulfan sulfate	96		96		30-150	0		30	A
Methoxychlor	92		91		30-150	1		30	A
cis-Chlordane	91		90		30-150	1		30	A
trans-Chlordane	94		92		30-150	2		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG992409-2 WG992409-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	104		104		30-150	B
Decachlorobiphenyl	89		90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	93		93		30-150	A
Decachlorobiphenyl	74		77		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG992524-2 WG992524-3									
2,4-D	82		85		30-150	4		30	A
2,4,5-T	69		73		30-150	6		30	A
2,4,5-TP (Silvex)	69		74		30-150	7		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	85		88		30-150	A
DCAA	69		70		30-150	B

METALS

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710724
Report Date: 04/13/17

SAMPLE RESULTS

Lab ID: L1710724-01
Client ID: DS03_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Percent Solids: 64%

Date Collected: 04/06/17 14:00
Date Received: 04/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4900		mg/kg	12	3.2	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
Antimony, Total	0.46	J	mg/kg	5.9	0.45	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
Arsenic, Total	4.1		mg/kg	1.2	0.25	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
Barium, Total	63		mg/kg	1.2	0.21	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
Beryllium, Total	0.19	J	mg/kg	0.59	0.04	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
Cadmium, Total	0.31	J	mg/kg	1.2	0.12	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
Calcium, Total	9200		mg/kg	12	4.2	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
Chromium, Total	16		mg/kg	1.2	0.11	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
Cobalt, Total	4.3		mg/kg	2.4	0.20	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
Copper, Total	440		mg/kg	1.2	0.31	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
Iron, Total	9600		mg/kg	5.9	1.1	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
Lead, Total	50		mg/kg	5.9	0.32	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
Magnesium, Total	2200		mg/kg	12	1.8	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
Manganese, Total	230		mg/kg	1.2	0.19	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
Mercury, Total	0.10		mg/kg	0.10	0.02	1	04/08/17 09:30	04/11/17 14:17	EPA 7471B	1,7471B	BV
Nickel, Total	14		mg/kg	3.0	0.29	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
Potassium, Total	820		mg/kg	300	17.	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
Selenium, Total	ND		mg/kg	2.4	0.31	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
Silver, Total	ND		mg/kg	1.2	0.34	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
Sodium, Total	72	J	mg/kg	240	3.7	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
Thallium, Total	ND		mg/kg	2.4	0.37	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
Vanadium, Total	20		mg/kg	1.2	0.24	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
Zinc, Total	180		mg/kg	5.9	0.35	2	04/08/17 13:45	04/11/17 17:31	EPA 3050B	1,6010C	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	16		mg/kg	1.2	1.2	1		04/11/17 17:31	NA	107,-	

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710724
Report Date: 04/13/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG992324-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	04/08/17 09:30	04/11/17 11:42	1,7471B	BV

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG992379-1										
Aluminum, Total	ND		mg/kg	4.0	1.1	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM
Antimony, Total	ND		mg/kg	2.0	0.15	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM
Arsenic, Total	ND		mg/kg	0.40	0.08	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM
Barium, Total	ND		mg/kg	0.40	0.07	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM
Beryllium, Total	0.02	J	mg/kg	0.20	0.01	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM
Cadmium, Total	ND		mg/kg	0.40	0.04	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM
Calcium, Total	ND		mg/kg	4.0	1.4	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM
Chromium, Total	0.04	J	mg/kg	0.40	0.04	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM
Cobalt, Total	ND		mg/kg	0.80	0.07	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM
Copper, Total	ND		mg/kg	0.40	0.10	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM
Iron, Total	0.38	J	mg/kg	2.0	0.36	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM
Lead, Total	ND		mg/kg	2.0	0.11	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM
Magnesium, Total	ND		mg/kg	4.0	0.62	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM
Manganese, Total	ND		mg/kg	0.40	0.06	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM
Nickel, Total	ND		mg/kg	1.0	0.10	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM
Potassium, Total	ND		mg/kg	100	5.8	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM
Selenium, Total	ND		mg/kg	0.80	0.10	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM
Silver, Total	ND		mg/kg	0.40	0.11	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM
Sodium, Total	5.1	J	mg/kg	80	1.3	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM
Thallium, Total	ND		mg/kg	0.80	0.13	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM
Vanadium, Total	ND		mg/kg	0.40	0.08	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM
Zinc, Total	ND		mg/kg	2.0	0.12	1	04/08/17 13:45	04/11/17 14:25	1,6010C	AM

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710724
Report Date: 04/13/17

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710724

Report Date: 04/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG992324-2 SRM Lot Number: D091-540								
Mercury, Total	106		-		72-128	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710724

Report Date: 04/13/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG992379-2 SRM Lot Number: D091-540					
Aluminum, Total	89	-	52-148	-	
Antimony, Total	146	-	1-200	-	
Arsenic, Total	117	-	80-121	-	
Barium, Total	105	-	84-117	-	
Beryllium, Total	103	-	83-117	-	
Cadmium, Total	103	-	83-117	-	
Calcium, Total	97	-	81-118	-	
Chromium, Total	105	-	80-119	-	
Cobalt, Total	104	-	84-115	-	
Copper, Total	110	-	82-117	-	
Iron, Total	113	-	47-154	-	
Lead, Total	103	-	82-118	-	
Magnesium, Total	98	-	77-123	-	
Manganese, Total	100	-	82-118	-	
Nickel, Total	101	-	83-117	-	
Potassium, Total	96	-	72-128	-	
Selenium, Total	101	-	79-121	-	
Silver, Total	112	-	75-124	-	
Sodium, Total	107	-	73-126	-	
Thallium, Total	106	-	80-121	-	
Vanadium, Total	104	-	78-122	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710724

Report Date: 04/13/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG992379-2 SRM Lot Number: D091-540					
Zinc, Total	103	-	82-118	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG992324-3 QC Sample: L1710368-02 Client ID: MS Sample												
Mercury, Total	2.1	0.223	2.9	**358**	Q	-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG992379-3 QC Sample: L1710475-05 Client ID: MS Sample										
Aluminum, Total	2000	205	2000	**0**	Q	-	-	75-125	-	20
Antimony, Total	ND	51.3	51	99		-	-	75-125	-	20
Arsenic, Total	2.0	12.3	15	106		-	-	75-125	-	20
Barium, Total	15.	205	220	100		-	-	75-125	-	20
Beryllium, Total	0.10J	5.13	5.2	101		-	-	75-125	-	20
Cadmium, Total	0.574J	5.23	5.7	109		-	-	75-125	-	20
Calcium, Total	1700	1030	2300	**58**	Q	-	-	75-125	-	20
Chromium, Total	13.	20.5	26	**63**	Q	-	-	75-125	-	20
Cobalt, Total	1.74J	51.3	51	99		-	-	75-125	-	20
Copper, Total	32.	25.6	57	97		-	-	75-125	-	20
Iron, Total	3000	103	3000	**0**	Q	-	-	75-125	-	20
Lead, Total	330	52.3	350	**38**	Q	-	-	75-125	-	20
Magnesium, Total	1600	1030	2000	**39**	Q	-	-	75-125	-	20
Manganese, Total	61.	51.3	110	95		-	-	75-125	-	20
Nickel, Total	3.7	51.3	52	94		-	-	75-125	-	20
Potassium, Total	650	1030	1600	92		-	-	75-125	-	20
Selenium, Total	ND	12.3	14	114		-	-	75-125	-	20
Silver, Total	ND	30.8	31	101		-	-	75-125	-	20
Sodium, Total	60.J	1030	1200	117		-	-	75-125	-	20
Thallium, Total	ND	12.3	13	106		-	-	75-125	-	20
Vanadium, Total	4.3	51.3	55	99		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG992379-3 QC Sample: L1710475-05 Client ID: MS Sample										
Zinc, Total	330	51.3	300	**0**	Q	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG992324-4 QC Sample: L1710368-02 Client ID: DUP Sample						
Mercury, Total	2.1	1.4	mg/kg	**40**	Q	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG992379-4 QC Sample: L1710475-05 Client ID: DUP Sample						
Aluminum, Total	2000	1600	mg/kg	**22**	Q	20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	2.0	1.8	mg/kg	11		20
Barium, Total	15.	13	mg/kg	14		20
Beryllium, Total	0.10J	0.10J	mg/kg	NC		20
Cadmium, Total	0.574J	0.541J	mg/kg	NC		20
Calcium, Total	1700	1200	mg/kg	**34**	Q	20
Chromium, Total	13.	7.6	mg/kg	**52**	Q	20
Cobalt, Total	1.74J	1.22J	mg/kg	NC		20
Copper, Total	32.	28	mg/kg	13		20
Iron, Total	3000	3300	mg/kg	10		20
Lead, Total	330	360	mg/kg	9		20
Magnesium, Total	1600	920	mg/kg	**54**	Q	20
Manganese, Total	61.	57	mg/kg	7		20
Nickel, Total	3.7	2.542J	mg/kg	NC		20
Potassium, Total	650	490	mg/kg	**28**	Q	20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	60.J	59J	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG992379-4 QC Sample: L1710475-05 Client ID: DUP Sample						
Thallium, Total	ND	ND	mg/kg	NC		20
Vanadium, Total	4.3	4.2	mg/kg	2		20
Zinc, Total	330	260	mg/kg	**24**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710724
Report Date: 04/13/17

SAMPLE RESULTS

Lab ID: L1710724-01
Client ID: DS03_1-2
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil

Date Collected: 04/06/17 14:00
Date Received: 04/06/17
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	63.9		%	0.100	NA	1	-	04/07/17 12:42	121,2540G	RI
Cyanide, Total	0.82	J	mg/kg	1.5	0.25	1	04/10/17 16:35	04/11/17 17:36	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.2	0.25	1	04/08/17 15:10	04/10/17 12:42	1,7196A	NH

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1710724
Report Date: 04/13/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG992427-1										
Chromium, Hexavalent	ND		mg/kg	0.80	0.16	1	04/08/17 15:10	04/10/17 12:31	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG992699-1										
Cyanide, Total	ND		mg/kg	0.91	0.15	1	04/10/17 16:35	04/11/17 17:26	1,9010C/9012B	JO

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1710724

Report Date: 04/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG992427-2								
Chromium, Hexavalent	80		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG992699-2 WG992699-3								
Cyanide, Total	115		99		80-120	15		35

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG992427-4 QC Sample: L1710511-01 Client ID: MS Sample												
Chromium, Hexavalent	0.22J	1410	1400	99		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG992699-4 WG992699-5 QC Sample: L1711006-07 Client ID: MS Sample												
Cyanide, Total	ND	10	11	100		11	100		65-135	0		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG992133-1 QC Sample: L1710797-01 Client ID: DUP Sample						
Solids, Total	77.3	78.2	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG992427-6 QC Sample: L1710511-01 Client ID: DUP Sample						
Chromium, Hexavalent	0.22J	ND	mg/kg	NC		20

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1710724
Report Date: 04/13/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 04/07/2017 04:47

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1710724-01A	Vial MeOH preserved	A	N/A	3.7	Y	Absent	NYTCL-8260HLW(14)
L1710724-01B	Vial water preserved	A	N/A	3.7	Y	Absent	NYTCL-8260HLW(14)
L1710724-01C	Vial water preserved	A	N/A	3.7	Y	Absent	NYTCL-8260HLW(14)
L1710724-01D	Metals Only - Glass 60mL/2oz unp	A	N/A	3.7	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1710724-01E	Plastic 2oz unpreserved for TS	A	N/A	3.7	Y	Absent	TS(7)
L1710724-01F	Glass 500ml/16oz unpreserved	A	N/A	3.7	Y	Absent	NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name:	450 UNION STREET	**Lab Number:**	L1710724
Project Number:	170301202	**Report Date:**	04/13/17

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers

Project Name:	450 UNION STREET	**Lab Number:**	L1710724
Project Number:	170301202	**Report Date:**	04/13/17

Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	450 UNION STREET	**Lab Number:**	L1710724
Project Number:	170301202	**Report Date:**	04/13/17

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-9288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 4/7/17

ALPHA Job #: L1710724

Client Information

Client: Langan Engineering
Address: 368 W 31st Street, Manhattan NY 10001
Phone: 212-479-5400
Fax:
Email: nrice@langan.com

Project Information

Project Name: 450 Union Street
Project Location: 450 Union Street, Brooklyn, NY
Project #: 170301207
(Use Project name as Project #) ☐
Project Manager: Nicole Rice
ALPHAQuote #:

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	SVOCs	Pesticides	Herbicides	PCBs	Metals			Sample Specific Comments
10724-01	DS03-1-2	4/6/17	14:00	Soil	KT	X	X	X	X	X	X			

Container Type: V A A A A A
Preservative: F A A A A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Kyle Twomby	4/6/17 14:55	Kyle AHL	4.6.17 14:55.
Kyle AHL	4.6.17 14:55.	Paul Mazella	4/6/17 1838
Paul Mazella	4/6/17 2140		4-6-17 2145
	4-7-17 0130	Lomedo Matt	4/7/17 0730

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1711102
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Nicole Rice
Phone:	(212) 479-5400
Project Name:	450 UNION STREET
Project Number:	170301202
Report Date:	04/12/17

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), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711102
Report Date: 04/12/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1711102-01	WC_041017	SOIL	450 UNION STREET, BROOKLYN, NY	04/10/17 13:40	04/10/17

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711102
Report Date: 04/12/17

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	450 UNION STREET	**Lab Number:**	L1711102
Project Number:	170301202	**Report Date:**	04/12/17

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.

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: Cristin Walker

Title: Technical Director/Representative Date: 04/12/17

ORGANICS

VOLATILES

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711102
Report Date: 04/12/17

SAMPLE RESULTS

Lab ID: L1711102-01
Client ID: WC_041017
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/11/17 13:01
Analyst: JC
Percent Solids: 83%

Date Collected: 04/10/17 13:40
Date Received: 04/10/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	1.0	1
1,1-Dichloroethane	ND		ug/kg	0.96	0.17	1
Chloroform	0.31	J	ug/kg	0.96	0.24	1
Carbon tetrachloride	ND		ug/kg	0.64	0.22	1
1,2-Dichloropropane	ND		ug/kg	2.2	0.15	1
Dibromochloromethane	ND		ug/kg	0.64	0.11	1
1,1,2-Trichloroethane	ND		ug/kg	0.96	0.20	1
Tetrachloroethene	ND		ug/kg	0.64	0.19	1
Chlorobenzene	ND		ug/kg	0.64	0.22	1
Trichlorofluoromethane	ND		ug/kg	3.2	0.27	1
1,2-Dichloroethane	ND		ug/kg	0.64	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.22	1
Bromodichloromethane	ND		ug/kg	0.64	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	0.64	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.64	0.13	1
1,1-Dichloropropene	ND		ug/kg	3.2	0.21	1
Bromoform	ND		ug/kg	2.6	0.15	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.19	1
Benzene	ND		ug/kg	0.64	0.12	1
Toluene	ND		ug/kg	0.96	0.12	1
Ethylbenzene	ND		ug/kg	0.64	0.11	1
Chloromethane	ND		ug/kg	3.2	0.28	1
Bromomethane	ND		ug/kg	1.3	0.22	1
Vinyl chloride	ND		ug/kg	1.3	0.20	1
Chloroethane	ND		ug/kg	1.3	0.20	1
1,1-Dichloroethene	ND		ug/kg	0.64	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	0.96	0.15	1
Trichloroethene	ND		ug/kg	0.64	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	3.2	0.12	1

Project Name: 450 UNION STREET **Lab Number:** L1711102

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1711102-01 Date Collected: 04/10/17 13:40

Client ID: WC_041017 Date Received: 04/10/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.2	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	3.2	0.12	1
Methyl tert butyl ether	ND		ug/kg	1.3	0.10	1
p/m-Xylene	ND		ug/kg	1.3	0.22	1
o-Xylene	ND		ug/kg	1.3	0.22	1
Xylenes, Total	ND		ug/kg	1.3	0.22	1
cis-1,2-Dichloroethene	ND		ug/kg	0.64	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	0.64	0.15	1
Dibromomethane	ND		ug/kg	6.4	0.15	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	6.4	0.32	1
Acetone	14		ug/kg	6.4	1.5	1
Carbon disulfide	ND		ug/kg	6.4	0.71	1
2-Butanone	ND		ug/kg	6.4	0.44	1
Vinyl acetate	ND		ug/kg	6.4	0.10	1
4-Methyl-2-pentanone	ND		ug/kg	6.4	0.16	1
1,2,3-Trichloropropane	ND		ug/kg	6.4	0.11	1
2-Hexanone	ND		ug/kg	6.4	0.43	1
Bromochloromethane	ND		ug/kg	3.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	3.2	0.29	1
1,2-Dibromoethane	ND		ug/kg	2.6	0.13	1
1,3-Dichloropropane	ND		ug/kg	3.2	0.12	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.64	0.20	1
Bromobenzene	ND		ug/kg	3.2	0.14	1
n-Butylbenzene	ND		ug/kg	0.64	0.15	1
sec-Butylbenzene	ND		ug/kg	0.64	0.14	1
tert-Butylbenzene	ND		ug/kg	3.2	0.16	1
o-Chlorotoluene	ND		ug/kg	3.2	0.14	1
p-Chlorotoluene	ND		ug/kg	3.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	0.25	1
Hexachlorobutadiene	ND		ug/kg	3.2	0.22	1
Isopropylbenzene	ND		ug/kg	0.64	0.12	1
p-Isopropyltoluene	ND		ug/kg	0.64	0.13	1
Naphthalene	0.58	J	ug/kg	3.2	0.09	1
Acrylonitrile	ND		ug/kg	6.4	0.33	1
n-Propylbenzene	ND		ug/kg	0.64	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.2	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.2	0.14	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.2	0.10	1

Project Name: 450 UNION STREET **Lab Number:** L1711102

Project Number: 170301202 **Report Date:** 04/12/17

SAMPLE RESULTS

Lab ID: L1711102-01 Date Collected: 04/10/17 13:40

Client ID: WC_041017 Date Received: 04/10/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	3.2	0.12	1
1,4-Dioxane	ND		ug/kg	26	9.2	1
p-Diethylbenzene	ND		ug/kg	2.6	2.6	1
p-Ethyltoluene	ND		ug/kg	2.6	0.15	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.10	1
Ethyl ether	ND		ug/kg	3.2	0.17	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	3.2	0.25	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	109		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711102
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/17 08:41
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG993460-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	0.80	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711102
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/17 08:41
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG993460-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711102
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/17 08:41
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG993460-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1711102

Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG993460-3 WG993460-4								
Methylene chloride	100		100		70-130	0		30
1,1-Dichloroethane	108		110		70-130	2		30
Chloroform	108		111		70-130	3		30
Carbon tetrachloride	120		127		70-130	6		30
1,2-Dichloropropane	101		105		70-130	4		30
Dibromochloromethane	101		105		70-130	4		30
1,1,2-Trichloroethane	95		97		70-130	2		30
Tetrachloroethene	126		129		70-130	2		30
Chlorobenzene	107		109		70-130	2		30
Trichlorofluoromethane	93		90		70-139	3		30
1,2-Dichloroethane	96		98		70-130	2		30
1,1,1-Trichloroethane	120		122		70-130	2		30
Bromodichloromethane	101		103		70-130	2		30
trans-1,3-Dichloropropene	101		102		70-130	1		30
cis-1,3-Dichloropropene	100		105		70-130	5		30
1,1-Dichloropropene	115		119		70-130	3		30
Bromoform	99		101		70-130	2		30
1,1,2,2-Tetrachloroethane	88		88		70-130	0		30
Benzene	110		112		70-130	2		30
Toluene	103		105		70-130	2		30
Ethylbenzene	105		107		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1711102

Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG993460-3 WG993460-4								
Chloromethane	100		98		52-130	2		30
Bromomethane	92		94		57-147	2		30
Vinyl chloride	90		88		67-130	2		30
Chloroethane	80		79		50-151	1		30
1,1-Dichloroethene	121		122		65-135	1		30
trans-1,2-Dichloroethene	120		122		70-130	2		30
Trichloroethene	113		117		70-130	3		30
1,2-Dichlorobenzene	102		106		70-130	4		30
1,3-Dichlorobenzene	104		108		70-130	4		30
1,4-Dichlorobenzene	102		106		70-130	4		30
Methyl tert butyl ether	113		115		66-130	2		30
p/m-Xylene	113		117		70-130	3		30
o-Xylene	114		115		70-130	1		30
cis-1,2-Dichloroethene	118		120		70-130	2		30
Dibromomethane	104		105		70-130	1		30
Styrene	106		110		70-130	4		30
Dichlorodifluoromethane	103		101		30-146	2		30
Acetone	88		85		54-140	3		30
Carbon disulfide	120		**175**	Q	59-130	**37**	Q	30
2-Butanone	97		97		70-130	0		30
Vinyl acetate	85		85		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1711102

Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG993460-3 WG993460-4								
4-Methyl-2-pentanone	75		78		70-130	4		30
1,2,3-Trichloropropane	82		84		68-130	2		30
2-Hexanone	**64**	Q	**61**	Q	70-130	5		30
Bromochloromethane	125		127		70-130	2		30
2,2-Dichloropropane	**132**	Q	**132**	Q	70-130	0		30
1,2-Dibromoethane	102		104		70-130	2		30
1,3-Dichloropropane	96		96		69-130	0		30
1,1,1,2-Tetrachloroethane	110		112		70-130	2		30
Bromobenzene	108		113		70-130	5		30
n-Butylbenzene	97		99		70-130	2		30
sec-Butylbenzene	103		106		70-130	3		30
tert-Butylbenzene	107		111		70-130	4		30
o-Chlorotoluene	95		98		70-130	3		30
p-Chlorotoluene	95		98		70-130	3		30
1,2-Dibromo-3-chloropropane	103		102		68-130	1		30
Hexachlorobutadiene	117		121		67-130	3		30
Isopropylbenzene	105		109		70-130	4		30
p-Isopropyltoluene	107		111		70-130	4		30
Naphthalene	88		91		70-130	3		30
Acrylonitrile	85		88		70-130	3		30
n-Propylbenzene	97		100		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711102
Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG993460-3 WG993460-4								
1,2,3-Trichlorobenzene	111		116		70-130	4		30
1,2,4-Trichlorobenzene	110		117		70-130	6		30
1,3,5-Trimethylbenzene	101		105		70-130	4		30
1,2,4-Trimethylbenzene	102		106		70-130	4		30
1,4-Dioxane	108		110		65-136	2		30
p-Diethylbenzene	105		108		70-130	3		30
p-Ethyltoluene	104		107		70-130	3		30
1,2,4,5-Tetramethylbenzene	91		94		70-130	3		30
Ethyl ether	105		102		67-130	3		30
trans-1,4-Dichloro-2-butene	74		82		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	87		87		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	92		90		70-130
Dibromofluoromethane	105		105		70-130

PCBS

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711102
Report Date: 04/12/17

SAMPLE RESULTS

Lab ID: L1711102-01
Client ID: WC_041017
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/11/17 15:24
Analyst: HT
Percent Solids: 83%

Date Collected: 04/10/17 13:40
Date Received: 04/10/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/11/17 02:04
Cleanup Method: EPA 3665A
Cleanup Date: 04/11/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/11/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.5	3.12	1	A
Aroclor 1221	ND		ug/kg	39.5	3.65	1	A
Aroclor 1232	ND		ug/kg	39.5	4.63	1	A
Aroclor 1242	ND		ug/kg	39.5	4.84	1	A
Aroclor 1248	ND		ug/kg	39.5	3.34	1	A
Aroclor 1254	ND		ug/kg	39.5	3.25	1	A
Aroclor 1260	ND		ug/kg	39.5	3.01	1	A
Aroclor 1262	ND		ug/kg	39.5	1.96	1	A
Aroclor 1268	ND		ug/kg	39.5	5.73	1	A
PCBs, Total	ND		ug/kg	39.5	1.96	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711102
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/11/17 14:04
Analyst: JA

Extraction Method: EPA 3546
Extraction Date: 04/10/17 09:20
Cleanup Method: EPA 3665A
Cleanup Date: 04/10/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/10/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG992646-1						
Aroclor 1016	ND		ug/kg	32.2	2.54	A
Aroclor 1221	ND		ug/kg	32.2	2.97	A
Aroclor 1232	ND		ug/kg	32.2	3.77	A
Aroclor 1242	ND		ug/kg	32.2	3.94	A
Aroclor 1248	ND		ug/kg	32.2	2.72	A
Aroclor 1254	ND		ug/kg	32.2	2.65	A
Aroclor 1260	ND		ug/kg	32.2	2.45	A
Aroclor 1262	ND		ug/kg	32.2	1.60	A
Aroclor 1268	ND		ug/kg	32.2	4.67	A
PCBs, Total	ND		ug/kg	32.2	1.60	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	71		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1711102

Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG992646-2 WG992646-3									
Aroclor 1016	81		94		40-140	15		50	A
Aroclor 1260	66		80		40-140	19		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		96		30-150	A
Decachlorobiphenyl	56		67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		91		30-150	B
Decachlorobiphenyl	61		72		30-150	B

METALS

Project Name: 450 UNION STREET
Lab Number: L1711102
Project Number: 170301202
Report Date: 04/12/17

SAMPLE RESULTS

Lab ID: L1711102-01
Client ID: WC_041017
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Percent Solids: 83%

Date Collected: 04/10/17 13:40
Date Received: 04/10/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 04/11/17 05:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.0	0.02	1	04/12/17 09:58	04/12/17 13:26	EPA 3015	1,6010C	AM
Barium, TCLP	0.540		mg/l	0.500	0.021	1	04/12/17 09:58	04/12/17 13:26	EPA 3015	1,6010C	AM
Cadmium, TCLP	0.05	J	mg/l	0.10	0.01	1	04/12/17 09:58	04/12/17 13:26	EPA 3015	1,6010C	AM
Chromium, TCLP	ND		mg/l	0.20	0.02	1	04/12/17 09:58	04/12/17 13:26	EPA 3015	1,6010C	AM
Lead, TCLP	1.1		mg/l	0.50	0.03	1	04/12/17 09:58	04/12/17 13:26	EPA 3015	1,6010C	AM
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	04/12/17 09:10	04/12/17 12:30	EPA 7470A	1,7470A	BV
Selenium, TCLP	ND		mg/l	0.50	0.04	1	04/12/17 09:58	04/12/17 13:26	EPA 3015	1,6010C	AM
Silver, TCLP	ND		mg/l	0.10	0.03	1	04/12/17 09:58	04/12/17 13:26	EPA 3015	1,6010C	AM

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711102
Report Date: 04/12/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG993430-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	04/12/17 09:10	04/12/17 12:16	1,7470A	BV

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 04/11/17 05:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG993432-1										
Arsenic, TCLP	0.02	J	mg/l	1.0	0.02	1	04/12/17 09:58	04/12/17 11:41	1,6010C	AM
Barium, TCLP	ND		mg/l	0.50	0.02	1	04/12/17 09:58	04/12/17 11:41	1,6010C	AM
Cadmium, TCLP	ND		mg/l	0.10	0.01	1	04/12/17 09:58	04/12/17 11:41	1,6010C	AM
Chromium, TCLP	ND		mg/l	0.20	0.02	1	04/12/17 09:58	04/12/17 11:41	1,6010C	AM
Lead, TCLP	ND		mg/l	0.50	0.03	1	04/12/17 09:58	04/12/17 11:41	1,6010C	AM
Selenium, TCLP	ND		mg/l	0.50	0.04	1	04/12/17 09:58	04/12/17 11:41	1,6010C	AM
Silver, TCLP	ND		mg/l	0.10	0.03	1	04/12/17 09:58	04/12/17 11:41	1,6010C	AM

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 04/11/17 05:19

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711102
Report Date: 04/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG993430-2								
Mercury, TCLP	111		-		80-120	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG993432-2								
Arsenic, TCLP	108		-		75-125	-		20
Barium, TCLP	105		-		75-125	-		20
Cadmium, TCLP	100		-		75-125	-		20
Chromium, TCLP	100		-		75-125	-		20
Lead, TCLP	100		-		75-125	-		20
Selenium, TCLP	108		-		75-125	-		20
Silver, TCLP	96		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711102
Report Date: 04/12/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG993430-3 QC Sample: L1711082-01 Client ID: MS Sample												
Mercury, TCLP	ND	0.025	0.0264	105		-	-		80-120	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG993432-3 QC Sample: L1711082-01 Client ID: MS Sample												
Arsenic, TCLP	0.05J	1.2	1.4	117		-	-		75-125	-		20
Barium, TCLP	0.62	20	22	107		-	-		75-125	-		20
Cadmium, TCLP	ND	0.51	0.52	102		-	-		75-125	-		20
Chromium, TCLP	ND	2	2.0	100		-	-		75-125	-		20
Lead, TCLP	1.0	5.1	6.1	100		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.3	108		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.48	96		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711102
Report Date: 04/12/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG993430-4 QC Sample: L1711082-01 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG993432-4 QC Sample: L1711082-01 Client ID: DUP Sample						
Arsenic, TCLP	0.05J	0.06J	mg/l	NC		20
Barium, TCLP	0.62	0.62	mg/l	0		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	1.0	0.99	mg/l	1		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711102
Report Date: 04/12/17

SAMPLE RESULTS

Lab ID: L1711102-01
Client ID: WC_041017
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil

Date Collected: 04/10/17 13:40
Date Received: 04/10/17
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	82.8		%	0.100	NA	1	-	04/11/17 00:54	121,2540G	CG

Lab Duplicate Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711102
Report Date: 04/12/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG992908-1 QC Sample: L1711087-01 Client ID: DUP Sample						
Solids, Total	92.6	94.2	%	2		20

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711102
Report Date: 04/12/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 04/11/2017 00:53

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1711102-01A	Vial MeOH preserved	A	N/A	4.2	Y	Absent	NYTCL-8260HLW(14)
L1711102-01B	Vial water preserved	A	N/A	4.2	Y	Absent	NYTCL-8260HLW(14)
L1711102-01C	Vial water preserved	A	N/A	4.2	Y	Absent	NYTCL-8260HLW(14)
L1711102-01D	Plastic 2oz unpreserved for TS	A	N/A	4.2	Y	Absent	TS(7)
L1711102-01E	Glass 500ml/16oz unpreserved	A	N/A	4.2	Y	Absent	NYTCL-8082(14)
L1711102-01X	Plastic 120ml HNO3 preserved Ext	A	<2	4.2	Y	Absent	CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1711102-01X9	Tumble Vessel	A	N/A	4.2	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name:	450 UNION STREET	**Lab Number:**	L1711102
Project Number:	170301202	**Report Date:**	04/12/17

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers

Project Name:	450 UNION STREET	**Lab Number:**	L1711102
Project Number:	170301202	**Report Date:**	04/12/17

Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	450 UNION STREET	**Lab Number:**	L1711102
Project Number:	170301202	**Report Date:**	04/12/17

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 4/10/17

ALPHA Job #: L1711108

Client Information

Client: Langan Engineering
Address: 266 W 37th Street 8
Manhattan, NY 10018
Phone: 212-479-5400
Fax:
Email: nrice@langan.com

Project Information

Project Name: 450 Union Street
Project Location: 450 Union Street, Brooklyn, NY
Project # 170301202
(Use Project name as Project #) ☐
Project Manager: Nicole Rice
ALPHAQuote #:

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☒ # of Days: ASAP

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

VOCs | TCLP Metals | PCBs

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	TCLP Metals	PCBs	Sample Specific Comments
11102-01	INC-041017	4/10/17	13:40	Soil	KT	X	X	X	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
Kyle Trombly	4/10/17 14:15	Paul Glaser - AHA	4/10/17 14:15
Paul Glaser - AHA	4/10/17 16:45	Paul Magella	4/10/17 17:45
Paul Magella	4/10/17 2345	Danielle Mento	4/10/17 23:45

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1711107
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Nicole Rice
Phone:	(212) 479-5400
Project Name:	450 UNION STREET
Project Number:	170301202
Report Date:	04/17/17

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), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1711107-01	DS04_3-4	SOIL	450 UNION STREET, BROOKLYN, NY	04/10/17 13:30	04/10/17
L1711107-02	DS05_3-4	SOIL	450 UNION STREET, BROOKLYN, NY	04/10/17 10:30	04/10/17
L1711107-03	DS06_3-4	SOIL	450 UNION STREET, BROOKLYN, NY	04/10/17 14:00	04/10/17

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	450 UNION STREET	**Lab Number:**	L1711107
Project Number:	170301202	**Report Date:**	04/17/17

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.

Semivolatile Organics

L1711107-03: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (19%) and 2,4,6-tribromophenol (6%); however, re-extraction achieved a similar result: 2-fluorophenol (18%). The results of both extractions are reported.

The WG992911-2/-3 LCS/LCSD recoveries, associated with L1711107-01, -02 and -03, are below the acceptance criteria for benzoic acid (7%/9%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Herbicides

The surrogate recoveries for the WG992871-1 Method Blank, associated with L1711107-01 through -03, are below the acceptance criteria for dcaa (27%,24%). The associated samples are non-detect and have acceptable surrogate recoveries; therefore, no further actions were taken.

Metals

L1711107-01, -02 and -03: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

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:  Melissa Cripps

Title: Technical Director/Representative Date: 04/17/17

ORGANICS

VOLATILES

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-01
Client ID: DS04_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/11/17 16:49
Analyst: JC
Percent Solids: 74%

Date Collected: 04/10/17 13:30
Date Received: 04/10/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	0.89	1
1,1-Dichloroethane	ND		ug/kg	0.81	0.14	1
Chloroform	ND		ug/kg	0.81	0.20	1
Carbon tetrachloride	ND		ug/kg	0.54	0.19	1
1,2-Dichloropropane	ND		ug/kg	1.9	0.12	1
Dibromochloromethane	ND		ug/kg	0.54	0.10	1
1,1,2-Trichloroethane	ND		ug/kg	0.81	0.17	1
Tetrachloroethene	ND		ug/kg	0.54	0.16	1
Chlorobenzene	ND		ug/kg	0.54	0.19	1
Trichlorofluoromethane	ND		ug/kg	2.7	0.22	1
1,2-Dichloroethane	ND		ug/kg	0.54	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.19	1
Bromodichloromethane	ND		ug/kg	0.54	0.17	1
trans-1,3-Dichloropropene	ND		ug/kg	0.54	0.11	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.12	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.11	1
1,1-Dichloropropene	ND		ug/kg	2.7	0.18	1
Bromoform	ND		ug/kg	2.2	0.13	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.16	1
Benzene	ND		ug/kg	0.54	0.10	1
Toluene	ND		ug/kg	0.81	0.10	1
Ethylbenzene	ND		ug/kg	0.54	0.09	1
Chloromethane	ND		ug/kg	2.7	0.24	1
Bromomethane	ND		ug/kg	1.1	0.18	1
Vinyl chloride	ND		ug/kg	1.1	0.17	1
Chloroethane	ND		ug/kg	1.1	0.17	1
1,1-Dichloroethene	ND		ug/kg	0.54	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	0.81	0.13	1
Trichloroethene	ND		ug/kg	0.54	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.10	1

Project Name: 450 UNION STREET **Lab Number:** L1711107

Project Number: 170301202 **Report Date:** 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-01 Date Collected: 04/10/17 13:30

Client ID: DS04_3-4 Date Received: 04/10/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.10	1
Methyl tert butyl ether	ND		ug/kg	1.1	0.08	1
p/m-Xylene	ND		ug/kg	1.1	0.19	1
o-Xylene	ND		ug/kg	1.1	0.18	1
Xylenes, Total	ND		ug/kg	1.1	0.18	1
cis-1,2-Dichloroethene	ND		ug/kg	0.54	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	0.54	0.13	1
Dibromomethane	ND		ug/kg	5.4	0.13	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	5.4	0.27	1
Acetone	ND		ug/kg	5.4	1.2	1
Carbon disulfide	ND		ug/kg	5.4	0.59	1
2-Butanone	ND		ug/kg	5.4	0.37	1
Vinyl acetate	ND		ug/kg	5.4	0.08	1
4-Methyl-2-pentanone	ND		ug/kg	5.4	0.13	1
1,2,3-Trichloropropane	ND		ug/kg	5.4	0.10	1
2-Hexanone	ND		ug/kg	5.4	0.36	1
Bromochloromethane	ND		ug/kg	2.7	0.19	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.24	1
1,2-Dibromoethane	ND		ug/kg	2.2	0.11	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.10	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.17	1
Bromobenzene	ND		ug/kg	2.7	0.12	1
n-Butylbenzene	ND		ug/kg	0.54	0.12	1
sec-Butylbenzene	ND		ug/kg	0.54	0.12	1
tert-Butylbenzene	ND		ug/kg	2.7	0.13	1
o-Chlorotoluene	ND		ug/kg	2.7	0.12	1
p-Chlorotoluene	ND		ug/kg	2.7	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.21	1
Hexachlorobutadiene	ND		ug/kg	2.7	0.19	1
Isopropylbenzene	ND		ug/kg	0.54	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.54	0.11	1
Naphthalene	ND		ug/kg	2.7	0.07	1
Acrylonitrile	ND		ug/kg	5.4	0.28	1
n-Propylbenzene	ND		ug/kg	0.54	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.14	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.12	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.09	1

Project Name: 450 UNION STREET **Lab Number:** L1711107

Project Number: 170301202 **Report Date:** 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-01 Date Collected: 04/10/17 13:30

Client ID: DS04_3-4 Date Received: 04/10/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.10	1
1,4-Dioxane	ND		ug/kg	22	7.8	1
p-Diethylbenzene	ND		ug/kg	2.2	2.2	1
p-Ethyltoluene	ND		ug/kg	2.2	0.13	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.08	1
Ethyl ether	ND		ug/kg	2.7	0.14	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	2.7	0.21	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	98		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-02
Client ID: DS05_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/11/17 12:10
Analyst: JC
Percent Solids: 83%

Date Collected: 04/10/17 10:30
Date Received: 04/10/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	0.95	1
1,1-Dichloroethane	ND		ug/kg	0.86	0.16	1
Chloroform	0.90		ug/kg	0.86	0.21	1
Carbon tetrachloride	ND		ug/kg	0.58	0.20	1
1,2-Dichloropropane	ND		ug/kg	2.0	0.13	1
Dibromochloromethane	ND		ug/kg	0.58	0.10	1
1,1,2-Trichloroethane	ND		ug/kg	0.86	0.18	1
Tetrachloroethene	ND		ug/kg	0.58	0.17	1
Chlorobenzene	ND		ug/kg	0.58	0.20	1
Trichlorofluoromethane	ND		ug/kg	2.9	0.24	1
1,2-Dichloroethane	ND		ug/kg	0.58	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.20	1
Bromodichloromethane	ND		ug/kg	0.58	0.18	1
trans-1,3-Dichloropropene	ND		ug/kg	0.58	0.12	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	0.58	0.12	1
1,1-Dichloropropene	ND		ug/kg	2.9	0.19	1
Bromoform	ND		ug/kg	2.3	0.14	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	0.17	1
Benzene	ND		ug/kg	0.58	0.11	1
Toluene	ND		ug/kg	0.86	0.11	1
Ethylbenzene	ND		ug/kg	0.58	0.10	1
Chloromethane	ND		ug/kg	2.9	0.25	1
Bromomethane	ND		ug/kg	1.2	0.20	1
Vinyl chloride	ND		ug/kg	1.2	0.18	1
Chloroethane	ND		ug/kg	1.2	0.18	1
1,1-Dichloroethene	ND		ug/kg	0.58	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	0.86	0.14	1
Trichloroethene	ND		ug/kg	0.58	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.9	0.10	1

Project Name: 450 UNION STREET **Lab Number:** L1711107

Project Number: 170301202 **Report Date:** 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-02 Date Collected: 04/10/17 10:30

Client ID: DS05_3-4 Date Received: 04/10/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.9	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	2.9	0.10	1
Methyl tert butyl ether	ND		ug/kg	1.2	0.09	1
p/m-Xylene	ND		ug/kg	1.2	0.20	1
o-Xylene	ND		ug/kg	1.2	0.20	1
Xylenes, Total	ND		ug/kg	1.2	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	0.58	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	0.58	0.14	1
Dibromomethane	ND		ug/kg	5.8	0.14	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	5.8	0.29	1
Acetone	ND		ug/kg	5.8	1.3	1
Carbon disulfide	ND		ug/kg	5.8	0.63	1
2-Butanone	ND		ug/kg	5.8	0.40	1
Vinyl acetate	ND		ug/kg	5.8	0.09	1
4-Methyl-2-pentanone	ND		ug/kg	5.8	0.14	1
1,2,3-Trichloropropane	ND		ug/kg	5.8	0.10	1
2-Hexanone	ND		ug/kg	5.8	0.38	1
Bromochloromethane	ND		ug/kg	2.9	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.9	0.26	1
1,2-Dibromoethane	ND		ug/kg	2.3	0.11	1
1,3-Dichloropropane	ND		ug/kg	2.9	0.10	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	0.18	1
Bromobenzene	ND		ug/kg	2.9	0.13	1
n-Butylbenzene	ND		ug/kg	0.58	0.13	1
sec-Butylbenzene	ND		ug/kg	0.58	0.12	1
tert-Butylbenzene	ND		ug/kg	2.9	0.14	1
o-Chlorotoluene	ND		ug/kg	2.9	0.13	1
p-Chlorotoluene	ND		ug/kg	2.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.23	1
Hexachlorobutadiene	ND		ug/kg	2.9	0.20	1
Isopropylbenzene	ND		ug/kg	0.58	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.58	0.12	1
Naphthalene	0.52	J	ug/kg	2.9	0.08	1
Acrylonitrile	ND		ug/kg	5.8	0.30	1
n-Propylbenzene	ND		ug/kg	0.58	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.9	0.14	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.9	0.12	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.9	0.09	1

Project Name: 450 UNION STREET **Lab Number:** L1711107

Project Number: 170301202 **Report Date:** 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-02 Date Collected: 04/10/17 10:30

Client ID: DS05_3-4 Date Received: 04/10/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	2.9	0.11	1
1,4-Dioxane	ND		ug/kg	23	8.3	1
p-Diethylbenzene	ND		ug/kg	2.3	2.3	1
p-Ethyltoluene	ND		ug/kg	2.3	0.14	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.09	1
Ethyl ether	ND		ug/kg	2.9	0.15	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	2.9	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	106		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-03
Client ID: DS06_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/11/17 12:36
Analyst: JC
Percent Solids: 91%

Date Collected: 04/10/17 14:00
Date Received: 04/10/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	0.89	1
1,1-Dichloroethane	ND		ug/kg	0.81	0.15	1
Chloroform	ND		ug/kg	0.81	0.20	1
Carbon tetrachloride	ND		ug/kg	0.54	0.19	1
1,2-Dichloropropane	ND		ug/kg	1.9	0.12	1
Dibromochloromethane	ND		ug/kg	0.54	0.10	1
1,1,2-Trichloroethane	ND		ug/kg	0.81	0.17	1
Tetrachloroethene	ND		ug/kg	0.54	0.16	1
Chlorobenzene	ND		ug/kg	0.54	0.19	1
Trichlorofluoromethane	ND		ug/kg	2.7	0.22	1
1,2-Dichloroethane	ND		ug/kg	0.54	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.19	1
Bromodichloromethane	ND		ug/kg	0.54	0.17	1
trans-1,3-Dichloropropene	ND		ug/kg	0.54	0.11	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.12	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.11	1
1,1-Dichloropropene	ND		ug/kg	2.7	0.18	1
Bromoform	ND		ug/kg	2.2	0.13	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.16	1
Benzene	ND		ug/kg	0.54	0.10	1
Toluene	ND		ug/kg	0.81	0.10	1
Ethylbenzene	ND		ug/kg	0.54	0.09	1
Chloromethane	ND		ug/kg	2.7	0.24	1
Bromomethane	ND		ug/kg	1.1	0.18	1
Vinyl chloride	ND		ug/kg	1.1	0.17	1
Chloroethane	ND		ug/kg	1.1	0.17	1
1,1-Dichloroethene	ND		ug/kg	0.54	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	0.81	0.13	1
Trichloroethene	ND		ug/kg	0.54	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.10	1

Project Name: 450 UNION STREET **Lab Number:** L1711107

Project Number: 170301202 **Report Date:** 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-03 Date Collected: 04/10/17 14:00

Client ID: DS06_3-4 Date Received: 04/10/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.10	1
Methyl tert butyl ether	ND		ug/kg	1.1	0.08	1
p/m-Xylene	ND		ug/kg	1.1	0.19	1
o-Xylene	ND		ug/kg	1.1	0.18	1
Xylenes, Total	ND		ug/kg	1.1	0.18	1
cis-1,2-Dichloroethene	ND		ug/kg	0.54	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	0.54	0.13	1
Dibromomethane	ND		ug/kg	5.4	0.13	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	5.4	0.27	1
Acetone	ND		ug/kg	5.4	1.2	1
Carbon disulfide	ND		ug/kg	5.4	0.60	1
2-Butanone	ND		ug/kg	5.4	0.37	1
Vinyl acetate	ND		ug/kg	5.4	0.08	1
4-Methyl-2-pentanone	ND		ug/kg	5.4	0.13	1
1,2,3-Trichloropropane	ND		ug/kg	5.4	0.10	1
2-Hexanone	ND		ug/kg	5.4	0.36	1
Bromochloromethane	ND		ug/kg	2.7	0.19	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.24	1
1,2-Dibromoethane	ND		ug/kg	2.2	0.11	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.10	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.17	1
Bromobenzene	ND		ug/kg	2.7	0.12	1
n-Butylbenzene	ND		ug/kg	0.54	0.12	1
sec-Butylbenzene	ND		ug/kg	0.54	0.12	1
tert-Butylbenzene	ND		ug/kg	2.7	0.13	1
o-Chlorotoluene	ND		ug/kg	2.7	0.12	1
p-Chlorotoluene	ND		ug/kg	2.7	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.21	1
Hexachlorobutadiene	ND		ug/kg	2.7	0.19	1
Isopropylbenzene	ND		ug/kg	0.54	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.54	0.11	1
Naphthalene	0.47	J	ug/kg	2.7	0.08	1
Acrylonitrile	ND		ug/kg	5.4	0.28	1
n-Propylbenzene	ND		ug/kg	0.54	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.14	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.12	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.09	1

Project Name: 450 UNION STREET **Lab Number:** L1711107

Project Number: 170301202 **Report Date:** 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-03 Date Collected: 04/10/17 14:00

Client ID: DS06_3-4 Date Received: 04/10/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.10	1
1,4-Dioxane	ND		ug/kg	22	7.8	1
p-Diethylbenzene	ND		ug/kg	2.2	2.2	1
p-Ethyltoluene	ND		ug/kg	2.2	0.13	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.08	1
Ethyl ether	ND		ug/kg	2.7	0.14	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	2.7	0.21	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	84		70-130
Dibromofluoromethane	109		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/17 08:50
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG993061-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/17 08:50
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG993061-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/17 08:50
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG993061-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	0.18	J	ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/17 08:50
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG993061-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/17 08:41
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03 Batch: WG993460-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	0.80	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/17 08:41
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03 Batch: WG993460-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/17 08:41
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03 Batch: WG993460-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1711107

Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG993061-3 WG993061-4								
Methylene chloride	86		91		70-130	6		30
1,1-Dichloroethane	96		100		70-130	4		30
Chloroform	97		102		70-130	5		30
Carbon tetrachloride	89		93		70-130	4		30
1,2-Dichloropropane	99		105		70-130	6		30
Dibromochloromethane	94		100		70-130	6		30
1,1,2-Trichloroethane	99		106		70-130	7		30
Tetrachloroethene	82		87		70-130	6		30
Chlorobenzene	88		92		70-130	4		30
Trichlorofluoromethane	95		97		70-139	2		30
1,2-Dichloroethane	106		112		70-130	6		30
1,1,1-Trichloroethane	92		97		70-130	5		30
Bromodichloromethane	99		103		70-130	4		30
trans-1,3-Dichloropropene	97		103		70-130	6		30
cis-1,3-Dichloropropene	100		106		70-130	6		30
1,1-Dichloropropene	93		97		70-130	4		30
Bromoform	96		101		70-130	5		30
1,1,2,2-Tetrachloroethane	105		109		70-130	4		30
Benzene	92		97		70-130	5		30
Toluene	84		89		70-130	6		30
Ethylbenzene	86		92		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1711107

Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG993061-3 WG993061-4								
Chloromethane	92		94		52-130	2		30
Bromomethane	93		93		57-147	0		30
Vinyl chloride	88		91		67-130	3		30
Chloroethane	90		94		50-151	4		30
1,1-Dichloroethene	73		72		65-135	1		30
trans-1,2-Dichloroethene	90		94		70-130	4		30
Trichloroethene	90		95		70-130	5		30
1,2-Dichlorobenzene	92		96		70-130	4		30
1,3-Dichlorobenzene	89		92		70-130	3		30
1,4-Dichlorobenzene	89		92		70-130	3		30
Methyl tert butyl ether	107		114		66-130	6		30
p/m-Xylene	89		93		70-130	4		30
o-Xylene	91		96		70-130	5		30
cis-1,2-Dichloroethene	92		98		70-130	6		30
Dibromomethane	103		109		70-130	6		30
Styrene	94		99		70-130	5		30
Dichlorodifluoromethane	83		85		30-146	2		30
Acetone	129		129		54-140	0		30
Carbon disulfide	**139**	Q	**241**	Q	59-130	**54**	Q	30
2-Butanone	118		123		70-130	4		30
Vinyl acetate	104		108		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG993061-3 WG993061-4								
4-Methyl-2-pentanone	102		105		70-130	3		30
1,2,3-Trichloropropane	105		111		68-130	6		30
2-Hexanone	106		106		70-130	0		30
Bromochloromethane	98		104		70-130	6		30
2,2-Dichloropropane	93		96		70-130	3		30
1,2-Dibromoethane	98		103		70-130	5		30
1,3-Dichloropropane	100		104		69-130	4		30
1,1,1,2-Tetrachloroethane	91		96		70-130	5		30
Bromobenzene	88		92		70-130	4		30
n-Butylbenzene	88		91		70-130	3		30
sec-Butylbenzene	86		91		70-130	6		30
tert-Butylbenzene	86		90		70-130	5		30
o-Chlorotoluene	87		91		70-130	4		30
p-Chlorotoluene	89		93		70-130	4		30
1,2-Dibromo-3-chloropropane	99		104		68-130	5		30
Hexachlorobutadiene	88		89		67-130	1		30
Isopropylbenzene	84		89		70-130	6		30
p-Isopropyltoluene	87		90		70-130	3		30
Naphthalene	100		102		70-130	2		30
Acrylonitrile	122		123		70-130	1		30
n-Propylbenzene	86		89		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG993061-3 WG993061-4								
1,2,3-Trichlorobenzene	96		99		70-130	3		30
1,2,4-Trichlorobenzene	96		96		70-130	0		30
1,3,5-Trimethylbenzene	87		92		70-130	6		30
1,2,4-Trimethylbenzene	90		93		70-130	3		30
1,4-Dioxane	133		135		65-136	1		30
p-Diethylbenzene	86		91		70-130	6		30
p-Ethyltoluene	86		89		70-130	3		30
1,2,4,5-Tetramethylbenzene	90		93		70-130	3		30
Ethyl ether	99		101		67-130	2		30
trans-1,4-Dichloro-2-butene	97		103		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	111		109		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	102		102		70-130
Dibromofluoromethane	102		103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1711107

Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG993460-3 WG993460-4								
Methylene chloride	100		100		70-130	0		30
1,1-Dichloroethane	108		110		70-130	2		30
Chloroform	108		111		70-130	3		30
Carbon tetrachloride	120		127		70-130	6		30
1,2-Dichloropropane	101		105		70-130	4		30
Dibromochloromethane	101		105		70-130	4		30
1,1,2-Trichloroethane	95		97		70-130	2		30
Tetrachloroethene	126		129		70-130	2		30
Chlorobenzene	107		109		70-130	2		30
Trichlorofluoromethane	93		90		70-139	3		30
1,2-Dichloroethane	96		98		70-130	2		30
1,1,1-Trichloroethane	120		122		70-130	2		30
Bromodichloromethane	101		103		70-130	2		30
trans-1,3-Dichloropropene	101		102		70-130	1		30
cis-1,3-Dichloropropene	100		105		70-130	5		30
1,1-Dichloropropene	115		119		70-130	3		30
Bromoform	99		101		70-130	2		30
1,1,2,2-Tetrachloroethane	88		88		70-130	0		30
Benzene	110		112		70-130	2		30
Toluene	103		105		70-130	2		30
Ethylbenzene	105		107		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1711107

Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG993460-3 WG993460-4								
Chloromethane	100		98		52-130	2		30
Bromomethane	92		94		57-147	2		30
Vinyl chloride	90		88		67-130	2		30
Chloroethane	80		79		50-151	1		30
1,1-Dichloroethene	121		122		65-135	1		30
trans-1,2-Dichloroethene	120		122		70-130	2		30
Trichloroethene	113		117		70-130	3		30
1,2-Dichlorobenzene	102		106		70-130	4		30
1,3-Dichlorobenzene	104		108		70-130	4		30
1,4-Dichlorobenzene	102		106		70-130	4		30
Methyl tert butyl ether	113		115		66-130	2		30
p/m-Xylene	113		117		70-130	3		30
o-Xylene	114		115		70-130	1		30
cis-1,2-Dichloroethene	118		120		70-130	2		30
Dibromomethane	104		105		70-130	1		30
Styrene	106		110		70-130	4		30
Dichlorodifluoromethane	103		101		30-146	2		30
Acetone	88		85		54-140	3		30
Carbon disulfide	120		**175**	Q	59-130	**37**	Q	30
2-Butanone	97		97		70-130	0		30
Vinyl acetate	85		85		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1711107

Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG993460-3 WG993460-4								
4-Methyl-2-pentanone	75		78		70-130	4		30
1,2,3-Trichloropropane	82		84		68-130	2		30
2-Hexanone	**64**	Q	**61**	Q	70-130	5		30
Bromochloromethane	125		127		70-130	2		30
2,2-Dichloropropane	**132**	Q	**132**	Q	70-130	0		30
1,2-Dibromoethane	102		104		70-130	2		30
1,3-Dichloropropane	96		96		69-130	0		30
1,1,1,2-Tetrachloroethane	110		112		70-130	2		30
Bromobenzene	108		113		70-130	5		30
n-Butylbenzene	97		99		70-130	2		30
sec-Butylbenzene	103		106		70-130	3		30
tert-Butylbenzene	107		111		70-130	4		30
o-Chlorotoluene	95		98		70-130	3		30
p-Chlorotoluene	95		98		70-130	3		30
1,2-Dibromo-3-chloropropane	103		102		68-130	1		30
Hexachlorobutadiene	117		121		67-130	3		30
Isopropylbenzene	105		109		70-130	4		30
p-Isopropyltoluene	107		111		70-130	4		30
Naphthalene	88		91		70-130	3		30
Acrylonitrile	85		88		70-130	3		30
n-Propylbenzene	97		100		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG993460-3 WG993460-4								
1,2,3-Trichlorobenzene	111		116		70-130	4		30
1,2,4-Trichlorobenzene	110		117		70-130	6		30
1,3,5-Trimethylbenzene	101		105		70-130	4		30
1,2,4-Trimethylbenzene	102		106		70-130	4		30
1,4-Dioxane	108		110		65-136	2		30
p-Diethylbenzene	105		108		70-130	3		30
p-Ethyltoluene	104		107		70-130	3		30
1,2,4,5-Tetramethylbenzene	91		94		70-130	3		30
Ethyl ether	105		102		67-130	3		30
trans-1,4-Dichloro-2-butene	74		82		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	87		87		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	92		90		70-130
Dibromofluoromethane	105		105		70-130

SEMIVOLATILES

Project Name: 450 UNION STREET **Lab Number:** L1711107

Project Number: 170301202 **Report Date:** 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-01
Client ID: DS04_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/11/17 10:34
Analyst: PS
Percent Solids: 74%

Date Collected: 04/10/17 13:30
Date Received: 04/10/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/11/17 01:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	38	J	ug/kg	170	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	38.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	38.	1
Fluoranthene	540		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	200	28.	1
Naphthalene	ND		ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	76.	1
Butyl benzyl phthalate	ND		ug/kg	220	55.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1

Project Name: 450 UNION STREET **Lab Number:** L1711107

Project Number: 170301202 **Report Date:** 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-01 Date Collected: 04/10/17 13:30

Client ID: DS04_3-4 Date Received: 04/10/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	340		ug/kg	130	25.	1
Benzo(a)pyrene	320		ug/kg	170	53.	1
Benzo(b)fluoranthene	370		ug/kg	130	37.	1
Benzo(k)fluoranthene	140		ug/kg	130	35.	1
Chrysene	380		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	170	34.	1
Anthracene	66	J	ug/kg	130	43.	1
Benzo(ghi)perylene	150	J	ug/kg	170	26.	1
Fluorene	33	J	ug/kg	220	21.	1
Phenanthrene	560		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	49	J	ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	170		ug/kg	170	30.	1
Pyrene	690		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	51.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	72.	1
2-Nitrophenol	ND		ug/kg	470	82.	1
4-Nitrophenol	ND		ug/kg	310	89.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	570	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Benzoic Acid	ND		ug/kg	710	220	1
Benzyl Alcohol	ND		ug/kg	220	67.	1
Carbazole	ND		ug/kg	220	21.	1

Project Name: 450 UNION STREET **Lab Number:** L1711107

Project Number: 170301202 **Report Date:** 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-01 Date Collected: 04/10/17 13:30

Client ID: DS04_3-4 Date Received: 04/10/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	67		18-120

Project Name: 450 UNION STREET **Lab Number:** L1711107

Project Number: 170301202 **Report Date:** 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-02
Client ID: DS05_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/11/17 11:00
Analyst: PS
Percent Solids: 83%

Date Collected: 04/10/17 10:30
Date Received: 04/10/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/11/17 01:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	86	J	ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	1300		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	59	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1

Project Name: 450 UNION STREET **Lab Number:** L1711107

Project Number: 170301202 **Report Date:** 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-02 Date Collected: 04/10/17 10:30

Client ID: DS05_3-4 Date Received: 04/10/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	580		ug/kg	120	22.	1
Benzo(a)pyrene	530		ug/kg	160	48.	1
Benzo(b)fluoranthene	660		ug/kg	120	33.	1
Benzo(k)fluoranthene	220		ug/kg	120	32.	1
Chrysene	560		ug/kg	120	20.	1
Acenaphthylene	43	J	ug/kg	160	30.	1
Anthracene	300		ug/kg	120	39.	1
Benzo(ghi)perylene	250		ug/kg	160	23.	1
Fluorene	94	J	ug/kg	200	19.	1
Phenanthrene	1100		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	72	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	300		ug/kg	160	28.	1
Pyrene	1100		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	68	J	ug/kg	200	19.	1
2-Methylnaphthalene	28	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	430	74.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	110	J	ug/kg	200	19.	1

Project Name: 450 UNION STREET **Lab Number:** L1711107

Project Number: 170301202 **Report Date:** 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-02 Date Collected: 04/10/17 10:30

Client ID: DS05_3-4 Date Received: 04/10/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	61		18-120

Project Name: 450 UNION STREET **Lab Number:** L1711107

Project Number: 170301202 **Report Date:** 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-03
Client ID: DS06_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/11/17 11:27
Analyst: PS
Percent Solids: 91%

Date Collected: 04/10/17 14:00
Date Received: 04/10/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/11/17 01:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	29	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	950		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1

Project Name: 450 UNION STREET **Lab Number:** L1711107

Project Number: 170301202 **Report Date:** 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-03 Date Collected: 04/10/17 14:00

Client ID: DS06_3-4 Date Received: 04/10/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	540		ug/kg	110	20.	1
Benzo(a)pyrene	550		ug/kg	150	45.	1
Benzo(b)fluoranthene	670		ug/kg	110	31.	1
Benzo(k)fluoranthene	240		ug/kg	110	29.	1
Chrysene	540		ug/kg	110	19.	1
Acenaphthylene	54	J	ug/kg	150	28.	1
Anthracene	110		ug/kg	110	36.	1
Benzo(ghi)perylene	260		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	470		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	81	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	300		ug/kg	150	26.	1
Pyrene	910		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	35	J	ug/kg	180	18.	1

Project Name: 450 UNION STREET **Lab Number:** L1711107

Project Number: 170301202 **Report Date:** 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-03 Date Collected: 04/10/17 14:00

Client ID: DS06_3-4 Date Received: 04/10/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**19**	Q	25-120
Phenol-d6	49		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	**6**	Q	10-136
4-Terphenyl-d14	64		18-120

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-03 RE\D
Client ID: DS06_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/16/17 18:56
Analyst: KV
Percent Solids: 91%

Date Collected: 04/10/17 14:00
Date Received: 04/10/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/11/17 12:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	8900		ug/kg	540	100	5
Phenanthrene	9300		ug/kg	540	110	5
Pyrene	7700		ug/kg	540	89.	5

Project Name: 450 UNION STREET **Lab Number:** L1711107

Project Number: 170301202 **Report Date:** 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-03 RE
Client ID: DS06_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/14/17 13:28
Analyst: CB
Percent Solids: 91%

Date Collected: 04/10/17 14:00
Date Received: 04/10/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/11/17 12:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1100		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	11000	E	ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	230		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1

Project Name: 450 UNION STREET **Lab Number:** L1711107

Project Number: 170301202 **Report Date:** 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-03 RE Date Collected: 04/10/17 14:00

Client ID: DS06_3-4 Date Received: 04/10/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	4800		ug/kg	110	20.	1
Benzo(a)pyrene	3700		ug/kg	140	44.	1
Benzo(b)fluoranthene	4800		ug/kg	110	30.	1
Benzo(k)fluoranthene	1600		ug/kg	110	28.	1
Chrysene	4600		ug/kg	110	18.	1
Acenaphthylene	380		ug/kg	140	28.	1
Anthracene	2700		ug/kg	110	35.	1
Benzo(ghi)perylene	1900		ug/kg	140	21.	1
Fluorene	1200		ug/kg	180	17.	1
Phenanthrene	11000	E	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	540		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	2100		ug/kg	140	25.	1
Pyrene	9500	E	ug/kg	110	18.	1
Biphenyl	120	J	ug/kg	410	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	550		ug/kg	180	17.	1
2-Methylnaphthalene	290		ug/kg	210	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	720		ug/kg	180	17.	1

Project Name: 450 UNION STREET **Lab Number:** L1711107

Project Number: 170301202 **Report Date:** 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-03 RE Date Collected: 04/10/17 14:00

Client ID: DS06_3-4 Date Received: 04/10/17

Sample Location: 450 UNION STREET, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**18**	Q	25-120
Phenol-d6	47		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	11		10-136
4-Terphenyl-d14	57		18-120

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/11/17 07:57
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 04/11/17 00:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG992911-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/11/17 07:57
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 04/11/17 00:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG992911-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/11/17 07:57
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 04/11/17 00:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG992911-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	57		10-136
4-Terphenyl-d14	67		18-120

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/12/17 02:41
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 04/11/17 12:32

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG993100-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	140	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	18.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	140	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	140	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/12/17 02:41
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 04/11/17 12:32

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG993100-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	39.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	22.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	29.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	30.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	140	26.
2,4-Dimethylphenol	ND		ug/kg	160	53.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/12/17 02:41
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 04/11/17 12:32

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG993100-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	75.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	56		10-136
4-Terphenyl-d14	72		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1711107

Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG992911-2 WG992911-3								
Acenaphthene	71		70		31-137	1		50
1,2,4-Trichlorobenzene	73		71		38-107	3		50
Hexachlorobenzene	71		71		40-140	0		50
Bis(2-chloroethyl)ether	73		72		40-140	1		50
2-Chloronaphthalene	70		68		40-140	3		50
1,2-Dichlorobenzene	71		68		40-140	4		50
1,3-Dichlorobenzene	71		69		40-140	3		50
1,4-Dichlorobenzene	70		68		28-104	3		50
3,3'-Dichlorobenzidine	48		43		40-140	11		50
2,4-Dinitrotoluene	69		70		40-132	1		50
2,6-Dinitrotoluene	67		68		40-140	1		50
Fluoranthene	73		71		40-140	3		50
4-Chlorophenyl phenyl ether	73		72		40-140	1		50
4-Bromophenyl phenyl ether	73		73		40-140	0		50
Bis(2-chloroisopropyl)ether	74		73		40-140	1		50
Bis(2-chloroethoxy)methane	77		76		40-117	1		50
Hexachlorobutadiene	66		64		40-140	3		50
Hexachlorocyclopentadiene	78		78		40-140	0		50
Hexachloroethane	70		69		40-140	1		50
Isophorone	76		75		40-140	1		50
Naphthalene	69		67		40-140	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1711107

Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG992911-2 WG992911-3								
Nitrobenzene	73		74		40-140	1		50
NDPA/DPA	75		74		36-157	1		50
n-Nitrosodi-n-propylamine	76		75		32-121	1		50
Bis(2-ethylhexyl)phthalate	80		78		40-140	3		50
Butyl benzyl phthalate	75		76		40-140	1		50
Di-n-butylphthalate	76		75		40-140	1		50
Di-n-octylphthalate	74		73		40-140	1		50
Diethyl phthalate	74		73		40-140	1		50
Dimethyl phthalate	71		71		40-140	0		50
Benzo(a)anthracene	72		71		40-140	1		50
Benzo(a)pyrene	73		72		40-140	1		50
Benzo(b)fluoranthene	71		71		40-140	0		50
Benzo(k)fluoranthene	72		71		40-140	1		50
Chrysene	72		70		40-140	3		50
Acenaphthylene	72		71		40-140	1		50
Anthracene	76		73		40-140	4		50
Benzo(ghi)perylene	72		69		40-140	4		50
Fluorene	74		72		40-140	3		50
Phenanthrene	71		70		40-140	1		50
Dibenzo(a,h)anthracene	74		71		40-140	4		50
Indeno(1,2,3-cd)pyrene	72		70		40-140	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG992911-2 WG992911-3								
Pyrene	72		71		35-142	1		50
Biphenyl	76		75		54-104	1		50
4-Chloroaniline	48		44		40-140	9		50
2-Nitroaniline	65		67		47-134	3		50
3-Nitroaniline	61		59		26-129	3		50
4-Nitroaniline	72		72		41-125	0		50
Dibenzofuran	72		70		40-140	3		50
2-Methylnaphthalene	70		68		40-140	3		50
1,2,4,5-Tetrachlorobenzene	73		70		40-117	4		50
Acetophenone	79		78		14-144	1		50
2,4,6-Trichlorophenol	70		72		30-130	3		50
p-Chloro-m-cresol	73		72		26-103	1		50
2-Chlorophenol	74		73		25-102	1		50
2,4-Dichlorophenol	78		76		30-130	3		50
2,4-Dimethylphenol	90		88		30-130	2		50
2-Nitrophenol	67		68		30-130	1		50
4-Nitrophenol	72		74		11-114	3		50
2,4-Dinitrophenol	45		54		4-130	18		50
4,6-Dinitro-o-cresol	63		66		10-130	5		50
Pentachlorophenol	64		65		17-109	2		50
Phenol	80		76		26-90	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG992911-2 WG992911-3								
2-Methylphenol	77		75		30-130.	3		50
3-Methylphenol/4-Methylphenol	81		80		30-130	1		50
2,4,5-Trichlorophenol	71		73		30-130	3		50
Benzoic Acid	**7**	Q	**9**	Q	10-110	25		50
Benzyl Alcohol	75		73		40-140	3		50
Carbazole	73		71		54-128	3		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	72		69		25-120
Phenol-d6	72		69		10-120
Nitrobenzene-d5	69		68		23-120
2-Fluorobiphenyl	66		64		30-120
2,4,6-Tribromophenol	67		67		10-136
4-Terphenyl-d14	67		64		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG993100-2 WG993100-3								
Acenaphthene	70		70		31-137	0		50
1,2,4-Trichlorobenzene	70		71		38-107	1		50
Hexachlorobenzene	74		74		40-140	0		50
Bis(2-chloroethyl)ether	66		67		40-140	2		50
2-Chloronaphthalene	70		70		40-140	0		50
1,2-Dichlorobenzene	67		69		40-140	3		50
1,3-Dichlorobenzene	66		68		40-140	3		50
1,4-Dichlorobenzene	65		68		28-104	5		50
3,3'-Dichlorobenzidine	45		44		40-140	2		50
2,4-Dinitrotoluene	80		81		40-132	1		50
2,6-Dinitrotoluene	81		80		40-140	1		50
Fluoranthene	74		75		40-140	1		50
4-Chlorophenyl phenyl ether	73		73		40-140	0		50
4-Bromophenyl phenyl ether	73		74		40-140	1		50
Bis(2-chloroisopropyl)ether	70		71		40-140	1		50
Bis(2-chloroethoxy)methane	70		71		40-117	1		50
Hexachlorobutadiene	70		72		40-140	3		50
Hexachlorocyclopentadiene	65		65		40-140	0		50
Hexachloroethane	67		69		40-140	3		50
Isophorone	73		73		40-140	0		50
Naphthalene	68		70		40-140	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG993100-2 WG993100-3								
Nitrobenzene	69		69		40-140	0		50
NDPA/DPA	74		75		36-157	1		50
n-Nitrosodi-n-propylamine	73		73		32-121	0		50
Bis(2-ethylhexyl)phthalate	78		79		40-140	1		50
Butyl benzyl phthalate	78		78		40-140	0		50
Di-n-butylphthalate	80		80		40-140	0		50
Di-n-octylphthalate	75		76		40-140	1		50
Diethyl phthalate	74		75		40-140	1		50
Dimethyl phthalate	76		76		40-140	0		50
Benzo(a)anthracene	72		73		40-140	1		50
Benzo(a)pyrene	78		78		40-140	0		50
Benzo(b)fluoranthene	73		73		40-140	0		50
Benzo(k)fluoranthene	75		76		40-140	1		50
Chrysene	69		71		40-140	3		50
Acenaphthylene	76		75		40-140	1		50
Anthracene	76		76		40-140	0		50
Benzo(ghi)perylene	73		74		40-140	1		50
Fluorene	73		73		40-140	0		50
Phenanthrene	72		72		40-140	0		50
Dibenzo(a,h)anthracene	73		74		40-140	1		50
Indeno(1,2,3-cd)pyrene	65		66		40-140	2		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG993100-2 WG993100-3								
Pyrene	73		73		35-142	0		50
Biphenyl	75		74		54-104	1		50
4-Chloroaniline	49		46		40-140	6		50
2-Nitroaniline	74		73		47-134	1		50
3-Nitroaniline	60		58		26-129	3		50
4-Nitroaniline	71		73		41-125	3		50
Dibenzofuran	72		72		40-140	0		50
2-Methylnaphthalene	71		71		40-140	0		50
1,2,4,5-Tetrachlorobenzene	75		75		40-117	0		50
Acetophenone	75		75		14-144	0		50
2,4,6-Trichlorophenol	79		78		30-130	1		50
p-Chloro-m-cresol	81		80		26-103	1		50
2-Chlorophenol	73		74		25-102	1		50
2,4-Dichlorophenol	79		78		30-130	1		50
2,4-Dimethylphenol	88		87		30-130	1		50
2-Nitrophenol	76		77		30-130	1		50
4-Nitrophenol	76		65		11-114	16		50
2,4-Dinitrophenol	43		46		4-130	7		50
4,6-Dinitro-o-cresol	63		65		10-130	3		50
Pentachlorophenol	58		60		17-109	3		50
Phenol	73		74		26-90	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG993100-2 WG993100-3								
2-Methylphenol	77		77		30-130.	0		50
3-Methylphenol/4-Methylphenol	75		76		30-130	1		50
2,4,5-Trichlorophenol	80		78		30-130	3		50
Benzoic Acid	14		16		10-110	13		50
Benzyl Alcohol	75		74		40-140	1		50
Carbazole	73		74		54-128	1		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	72		73		25-120
Phenol-d6	73		73		10-120
Nitrobenzene-d5	68		70		23-120
2-Fluorobiphenyl	72		72		30-120
2,4,6-Tribromophenol	68		68		10-136
4-Terphenyl-d14	72		71		18-120

PCBS

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-01
Client ID: DS04_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/11/17 15:36
Analyst: JA
Percent Solids: 74%

Date Collected: 04/10/17 13:30
Date Received: 04/10/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/11/17 02:28
Cleanup Method: EPA 3665A
Cleanup Date: 04/11/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/11/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.6	3.45	1	A
Aroclor 1221	ND		ug/kg	43.6	4.02	1	A
Aroclor 1232	ND		ug/kg	43.6	5.12	1	A
Aroclor 1242	ND		ug/kg	43.6	5.34	1	A
Aroclor 1248	ND		ug/kg	43.6	3.68	1	A
Aroclor 1254	ND		ug/kg	43.6	3.59	1	A
Aroclor 1260	ND		ug/kg	43.6	3.33	1	A
Aroclor 1262	ND		ug/kg	43.6	2.16	1	A
Aroclor 1268	ND		ug/kg	43.6	6.33	1	A
PCBs, Total	ND		ug/kg	43.6	2.16	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-02
Client ID: DS05_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/11/17 15:49
Analyst: JA
Percent Solids: 83%

Date Collected: 04/10/17 10:30
Date Received: 04/10/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/11/17 02:28
Cleanup Method: EPA 3665A
Cleanup Date: 04/11/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/11/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.9	3.07	1	A
Aroclor 1221	ND		ug/kg	38.9	3.59	1	A
Aroclor 1232	ND		ug/kg	38.9	4.56	1	A
Aroclor 1242	ND		ug/kg	38.9	4.76	1	A
Aroclor 1248	ND		ug/kg	38.9	3.28	1	A
Aroclor 1254	ND		ug/kg	38.9	3.20	1	A
Aroclor 1260	ND		ug/kg	38.9	2.96	1	A
Aroclor 1262	ND		ug/kg	38.9	1.93	1	A
Aroclor 1268	ND		ug/kg	38.9	5.64	1	A
PCBs, Total	ND		ug/kg	38.9	1.93	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-03
Client ID: DS06_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/11/17 16:01
Analyst: JA
Percent Solids: 91%

Date Collected: 04/10/17 14:00
Date Received: 04/10/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/11/17 02:28
Cleanup Method: EPA 3665A
Cleanup Date: 04/11/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/11/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	2.86	1	A
Aroclor 1221	ND		ug/kg	36.2	3.34	1	A
Aroclor 1232	ND		ug/kg	36.2	4.24	1	A
Aroclor 1242	ND		ug/kg	36.2	4.43	1	A
Aroclor 1248	ND		ug/kg	36.2	3.05	1	A
Aroclor 1254	ND		ug/kg	36.2	2.97	1	A
Aroclor 1260	ND		ug/kg	36.2	2.76	1	A
Aroclor 1262	ND		ug/kg	36.2	1.79	1	A
Aroclor 1268	ND		ug/kg	36.2	5.25	1	A
PCBs, Total	ND		ug/kg	36.2	1.79	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/11/17 14:04
Analyst: JA

Extraction Method: EPA 3546
Extraction Date: 04/10/17 09:20
Cleanup Method: EPA 3665A
Cleanup Date: 04/10/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/10/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-03 Batch: WG992646-1						
Aroclor 1016	ND		ug/kg	32.2	2.54	A
Aroclor 1221	ND		ug/kg	32.2	2.97	A
Aroclor 1232	ND		ug/kg	32.2	3.77	A
Aroclor 1242	ND		ug/kg	32.2	3.94	A
Aroclor 1248	ND		ug/kg	32.2	2.72	A
Aroclor 1254	ND		ug/kg	32.2	2.65	A
Aroclor 1260	ND		ug/kg	32.2	2.45	A
Aroclor 1262	ND		ug/kg	32.2	1.60	A
Aroclor 1268	ND		ug/kg	32.2	4.67	A
PCBs, Total	ND		ug/kg	32.2	1.60	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	71		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1711107

Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG992646-2 WG992646-3									
Aroclor 1016	81		94		40-140	15		50	A
Aroclor 1260	66		80		40-140	19		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		96		30-150	A
Decachlorobiphenyl	56		67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		91		30-150	B
Decachlorobiphenyl	61		72		30-150	B

PESTICIDES

Project Name: 450 UNION STREET **Lab Number:** L1711107

Project Number: 170301202 **Report Date:** 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-01
Client ID: DS04_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/11/17 13:32
Analyst: DM
Percent Solids: 74%

Date Collected: 04/10/17 13:30
Date Received: 04/10/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/11/17 02:44
Cleanup Method: EPA 3620B
Cleanup Date: 04/11/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.08	0.408	1	A
Lindane	ND		ug/kg	0.867	0.388	1	A
Alpha-BHC	ND		ug/kg	0.867	0.246	1	A
Beta-BHC	ND		ug/kg	2.08	0.789	1	A
Heptachlor	ND		ug/kg	1.04	0.467	1	A
Aldrin	ND		ug/kg	2.08	0.733	1	A
Heptachlor epoxide	ND		ug/kg	3.90	1.17	1	A
Endrin	ND		ug/kg	0.867	0.356	1	A
Endrin aldehyde	ND		ug/kg	2.60	0.911	1	A
Endrin ketone	ND		ug/kg	2.08	0.536	1	A
Dieldrin	ND		ug/kg	1.30	0.650	1	A
4,4'-DDE	ND		ug/kg	2.08	0.481	1	A
4,4'-DDD	ND		ug/kg	2.08	0.742	1	A
4,4'-DDT	ND		ug/kg	3.90	1.67	1	A
Endosulfan I	ND		ug/kg	2.08	0.492	1	A
Endosulfan II	ND		ug/kg	2.08	0.696	1	A
Endosulfan sulfate	ND		ug/kg	0.867	0.413	1	A
Methoxychlor	ND		ug/kg	3.90	1.21	1	A
Toxaphene	ND		ug/kg	39.0	10.9	1	A
cis-Chlordane	ND		ug/kg	2.60	0.725	1	A
trans-Chlordane	0.916	JPI	ug/kg	2.60	0.687	1	A
Chlordane	ND		ug/kg	16.9	6.90	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		30-150	B
Decachlorobiphenyl	82		30-150	B
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	79		30-150	A

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-01
Client ID: DS04_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 04/11/17 15:27
Analyst: DM
Percent Solids: 74%
Methylation Date: 04/11/17 12:13

Date Collected: 04/10/17 13:30
Date Received: 04/10/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 04/11/17 03:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	222	14.0	1	A
2,4,5-T	ND		ug/kg	222	6.87	1	A
2,4,5-TP (Silvex)	ND		ug/kg	222	5.90	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	76		30-150	A
DCAA	58		30-150	B

Project Name: 450 UNION STREET **Lab Number:** L1711107

Project Number: 170301202 **Report Date:** 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-02
Client ID: DS05_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/11/17 13:44
Analyst: DM
Percent Solids: 83%

Date Collected: 04/10/17 10:30
Date Received: 04/10/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/11/17 02:44
Cleanup Method: EPA 3620B
Cleanup Date: 04/11/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.85	0.362	1	A
Lindane	ND		ug/kg	0.770	0.344	1	A
Alpha-BHC	ND		ug/kg	0.770	0.219	1	A
Beta-BHC	ND		ug/kg	1.85	0.701	1	A
Heptachlor	ND		ug/kg	0.924	0.414	1	A
Aldrin	ND		ug/kg	1.85	0.651	1	A
Heptachlor epoxide	ND		ug/kg	3.46	1.04	1	A
Endrin	ND		ug/kg	0.770	0.316	1	A
Endrin aldehyde	ND		ug/kg	2.31	0.808	1	A
Endrin ketone	ND		ug/kg	1.85	0.476	1	A
Dieldrin	ND		ug/kg	1.16	0.578	1	A
4,4'-DDE	ND		ug/kg	1.85	0.427	1	A
4,4'-DDD	ND		ug/kg	1.85	0.659	1	A
4,4'-DDT	ND		ug/kg	3.46	1.49	1	A
Endosulfan I	ND		ug/kg	1.85	0.437	1	A
Endosulfan II	ND		ug/kg	1.85	0.618	1	A
Endosulfan sulfate	ND		ug/kg	0.770	0.366	1	A
Methoxychlor	ND		ug/kg	3.46	1.08	1	A
Toxaphene	ND		ug/kg	34.6	9.70	1	A
cis-Chlordane	ND		ug/kg	2.31	0.644	1	A
trans-Chlordane	3.82	P	ug/kg	2.31	0.610	1	B
Chlordane	ND		ug/kg	15.0	6.12	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	80		30-150	B
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	83		30-150	A

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-02
Client ID: DS05_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 04/11/17 15:47
Analyst: DM
Percent Solids: 83%
Methylation Date: 04/11/17 12:13

Date Collected: 04/10/17 10:30
Date Received: 04/10/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 04/11/17 03:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	195	12.3	1	A
2,4,5-T	ND		ug/kg	195	6.05	1	A
2,4,5-TP (Silvex)	ND		ug/kg	195	5.19	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	91		30-150	A
DCAA	69		30-150	B

Project Name: 450 UNION STREET **Lab Number:** L1711107

Project Number: 170301202 **Report Date:** 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-03
Client ID: DS06_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/11/17 13:57
Analyst: DM
Percent Solids: 91%

Date Collected: 04/10/17 14:00
Date Received: 04/10/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/11/17 02:44
Cleanup Method: EPA 3620B
Cleanup Date: 04/11/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.334	1	A
Lindane	ND		ug/kg	0.710	0.317	1	A
Alpha-BHC	ND		ug/kg	0.710	0.202	1	A
Beta-BHC	ND		ug/kg	1.70	0.646	1	A
Heptachlor	ND		ug/kg	0.852	0.382	1	A
Aldrin	ND		ug/kg	1.70	0.600	1	A
Heptachlor epoxide	ND		ug/kg	3.20	0.959	1	A
Endrin	ND		ug/kg	0.710	0.291	1	A
Endrin aldehyde	ND		ug/kg	2.13	0.746	1	A
Endrin ketone	ND		ug/kg	1.70	0.439	1	A
Dieldrin	ND		ug/kg	1.06	0.533	1	A
4,4'-DDE	ND		ug/kg	1.70	0.394	1	A
4,4'-DDD	ND		ug/kg	1.70	0.608	1	A
4,4'-DDT	ND		ug/kg	3.20	1.37	1	A
Endosulfan I	ND		ug/kg	1.70	0.403	1	A
Endosulfan II	ND		ug/kg	1.70	0.570	1	A
Endosulfan sulfate	ND		ug/kg	0.710	0.338	1	A
Methoxychlor	ND		ug/kg	3.20	0.994	1	A
Toxaphene	ND		ug/kg	32.0	8.95	1	A
cis-Chlordane	ND		ug/kg	2.13	0.594	1	A
trans-Chlordane	ND		ug/kg	2.13	0.562	1	A
Chlordane	ND		ug/kg	13.8	5.64	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	75		30-150	B
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	94		30-150	A

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-03
Client ID: DS06_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 04/11/17 16:06
Analyst: DM
Percent Solids: 91%
Methylation Date: 04/11/17 12:13

Date Collected: 04/10/17 14:00
Date Received: 04/10/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 04/11/17 03:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	180	11.4	1	A
2,4,5-T	ND		ug/kg	180	5.59	1	A
2,4,5-TP (Silvex)	ND		ug/kg	180	4.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	66		30-150	B

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/11/17 11:51
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 04/10/17 09:34
Cleanup Method: EPA 3620B
Cleanup Date: 04/11/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG992650-1						
Delta-BHC	ND		ug/kg	1.54	0.301	A
Lindane	ND		ug/kg	0.641	0.286	A
Alpha-BHC	ND		ug/kg	0.641	0.182	A
Beta-BHC	ND		ug/kg	1.54	0.583	A
Heptachlor	ND		ug/kg	0.769	0.345	A
Aldrin	ND		ug/kg	1.54	0.542	A
Heptachlor epoxide	ND		ug/kg	2.88	0.865	A
Endrin	ND		ug/kg	0.641	0.263	A
Endrin aldehyde	ND		ug/kg	1.92	0.673	A
Endrin ketone	ND		ug/kg	1.54	0.396	A
Dieldrin	ND		ug/kg	0.962	0.481	A
4,4'-DDE	ND		ug/kg	1.54	0.356	A
4,4'-DDD	ND		ug/kg	1.54	0.549	A
4,4'-DDT	ND		ug/kg	2.88	1.24	A
Endosulfan I	ND		ug/kg	1.54	0.363	A
Endosulfan II	ND		ug/kg	1.54	0.514	A
Endosulfan sulfate	ND		ug/kg	0.641	0.305	A
Methoxychlor	ND		ug/kg	2.88	0.897	A
Toxaphene	ND		ug/kg	28.8	8.08	A
cis-Chlordane	ND		ug/kg	1.92	0.536	A
trans-Chlordane	ND		ug/kg	1.92	0.508	A
Chlordane	ND		ug/kg	12.5	5.10	A

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/11/17 11:51
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 04/10/17 09:34
Cleanup Method: EPA 3620B
Cleanup Date: 04/11/17

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG992650-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	72		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	60		30-150	A

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 04/11/17 11:40
Analyst: KEG

Extraction Method: EPA 8151A
Extraction Date: 04/10/17 19:56

Methylation Date: 04/11/17 02:56

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-03 Batch: WG992871-1						
2,4-D	ND		ug/kg	165	10.4	A
2,4,5-T	ND		ug/kg	165	5.12	A
2,4,5-TP (Silvex)	ND		ug/kg	165	4.39	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**27**	Q	30-150	A
DCAA	**24**	Q	30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1711107

Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG992650-2 WG992650-3									
Delta-BHC	96		93		30-150	3		30	A
Lindane	85		82		30-150	4		30	A
Alpha-BHC	91		88		30-150	3		30	A
Beta-BHC	96		91		30-150	5		30	A
Heptachlor	89		86		30-150	3		30	A
Aldrin	86		80		30-150	7		30	A
Heptachlor epoxide	84		81		30-150	4		30	A
Endrin	91		88		30-150	3		30	A
Endrin aldehyde	76		76		30-150	0		30	A
Endrin ketone	88		88		30-150	0		30	A
Dieldrin	96		91		30-150	5		30	A
4,4'-DDE	97		91		30-150	6		30	A
4,4'-DDD	93		89		30-150	4		30	A
4,4'-DDT	96		91		30-150	5		30	A
Endosulfan I	88		84		30-150	5		30	A
Endosulfan II	88		85		30-150	3		30	A
Endosulfan sulfate	84		83		30-150	1		30	A
Methoxychlor	88		87		30-150	1		30	A
cis-Chlordane	89		82		30-150	8		30	A
trans-Chlordane	90		84		30-150	7		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG992650-2 WG992650-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		86		30-150	B
Decachlorobiphenyl	84		75		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		82		30-150	A
Decachlorobiphenyl	65		61		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG992871-2 WG992871-3									
2,4-D	46		50		30-150	8		30	A
2,4,5-T	46		56		30-150	20		30	A
2,4,5-TP (Silvex)	41		49		30-150	18		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	**28**	Q	36		30-150	A
DCAA	**25**	Q	**26**	Q	30-150	B

METALS

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-01
Client ID: DS04_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Percent Solids: 74%

Date Collected: 04/10/17 13:30
Date Received: 04/10/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3200		mg/kg	10	2.8	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
Antimony, Total	7.1		mg/kg	5.2	0.40	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
Arsenic, Total	19		mg/kg	1.0	0.22	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
Barium, Total	31		mg/kg	1.0	0.18	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
Beryllium, Total	0.36	J	mg/kg	0.52	0.03	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
Cadmium, Total	0.38	J	mg/kg	1.0	0.10	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
Calcium, Total	2000		mg/kg	10	3.7	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
Chromium, Total	37		mg/kg	1.0	0.10	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
Cobalt, Total	9.1		mg/kg	2.1	0.17	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
Copper, Total	140		mg/kg	1.0	0.27	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
Iron, Total	41000		mg/kg	5.2	0.94	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
Lead, Total	200		mg/kg	5.2	0.28	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
Magnesium, Total	1100		mg/kg	10	1.6	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
Manganese, Total	370		mg/kg	1.0	0.17	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
Mercury, Total	190		mg/kg	8.5	1.8	100	04/11/17 08:25	04/11/17 17:37	EPA 7471B	1,7471B	BV
Nickel, Total	26		mg/kg	2.6	0.25	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
Potassium, Total	1400		mg/kg	260	15.	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
Selenium, Total	ND		mg/kg	2.1	0.27	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
Silver, Total	ND		mg/kg	1.0	0.30	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
Sodium, Total	270		mg/kg	210	3.3	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
Thallium, Total	ND		mg/kg	2.1	0.33	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
Vanadium, Total	48		mg/kg	1.0	0.21	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
Zinc, Total	100		mg/kg	5.2	0.31	2	04/11/17 18:20	04/12/17 17:52	EPA 3050B	1,6010C	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	35		mg/kg	1.1	1.1	1		04/12/17 19:19	NA	107,-	

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-02
Client ID: DS05_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Percent Solids: 83%

Date Collected: 04/10/17 10:30
Date Received: 04/10/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4600		mg/kg	9.4	2.5	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
Antimony, Total	ND		mg/kg	4.7	0.36	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
Arsenic, Total	4.3		mg/kg	0.94	0.20	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
Barium, Total	31		mg/kg	0.94	0.16	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
Beryllium, Total	0.21	J	mg/kg	0.47	0.03	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
Cadmium, Total	0.28	J	mg/kg	0.94	0.09	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
Calcium, Total	1600		mg/kg	9.4	3.3	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
Chromium, Total	9.0		mg/kg	0.94	0.09	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
Cobalt, Total	4.6		mg/kg	1.9	0.16	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
Copper, Total	89		mg/kg	0.94	0.24	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
Iron, Total	10000		mg/kg	4.7	0.85	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
Lead, Total	66		mg/kg	4.7	0.25	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
Magnesium, Total	2200		mg/kg	9.4	1.4	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
Manganese, Total	200		mg/kg	0.94	0.15	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
Mercury, Total	7.2		mg/kg	0.39	0.08	5	04/11/17 08:25	04/11/17 17:39	EPA 7471B	1,7471B	BV
Nickel, Total	23		mg/kg	2.3	0.23	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
Potassium, Total	540		mg/kg	230	14.	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
Selenium, Total	ND		mg/kg	1.9	0.24	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
Silver, Total	ND		mg/kg	0.94	0.26	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
Sodium, Total	70	J	mg/kg	190	3.0	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
Thallium, Total	ND		mg/kg	1.9	0.30	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
Vanadium, Total	13		mg/kg	0.94	0.19	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
Zinc, Total	240		mg/kg	4.7	0.27	2	04/11/17 18:20	04/12/17 17:56	EPA 3050B	1,6010C	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	8.6	J	mg/kg	0.96	0.96	1		04/12/17 19:20	NA	107,-	

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-03
Client ID: DS06_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil
Percent Solids: 91%

Date Collected: 04/10/17 14:00
Date Received: 04/10/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5100		mg/kg	8.7	2.4	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
Antimony, Total	3.1	J	mg/kg	4.4	0.33	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
Arsenic, Total	7.7		mg/kg	0.87	0.18	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
Barium, Total	67		mg/kg	0.87	0.15	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
Beryllium, Total	0.31	J	mg/kg	0.44	0.03	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
Cadmium, Total	2.2		mg/kg	0.87	0.09	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
Calcium, Total	2200		mg/kg	8.7	3.0	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
Chromium, Total	12		mg/kg	0.87	0.08	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
Cobalt, Total	5.0		mg/kg	1.7	0.14	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
Copper, Total	300		mg/kg	0.87	0.22	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
Iron, Total	11000		mg/kg	4.4	0.79	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
Lead, Total	140		mg/kg	4.4	0.23	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
Magnesium, Total	2100		mg/kg	8.7	1.3	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
Manganese, Total	200		mg/kg	0.87	0.14	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
Mercury, Total	0.62		mg/kg	0.07	0.02	1	04/11/17 08:25	04/11/17 17:35	EPA 7471B	1,7471B	BV
Nickel, Total	18		mg/kg	2.2	0.21	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
Potassium, Total	1000		mg/kg	220	12.	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
Selenium, Total	ND		mg/kg	1.7	0.22	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
Silver, Total	ND		mg/kg	0.87	0.25	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
Sodium, Total	84	J	mg/kg	170	2.7	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
Thallium, Total	ND		mg/kg	1.7	0.27	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
Vanadium, Total	18		mg/kg	0.87	0.18	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
Zinc, Total	680		mg/kg	4.4	0.26	2	04/11/17 18:20	04/12/17 18:00	EPA 3050B	1,6010C	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12		mg/kg	0.88	0.88	1		04/12/17 19:20	NA	107,-	

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG992932-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	04/11/17 08:25	04/11/17 16:48	1,7471B	BV

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG993212-1										
Aluminum, Total	ND		mg/kg	4.0	1.1	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Antimony, Total	ND		mg/kg	2.0	0.15	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Arsenic, Total	ND		mg/kg	0.40	0.08	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Barium, Total	ND		mg/kg	0.40	0.07	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Beryllium, Total	ND		mg/kg	0.20	0.01	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Cadmium, Total	ND		mg/kg	0.40	0.04	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Calcium, Total	ND		mg/kg	4.0	1.4	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Chromium, Total	ND		mg/kg	0.40	0.04	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Cobalt, Total	ND		mg/kg	0.80	0.07	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Copper, Total	ND		mg/kg	0.40	0.10	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Iron, Total	ND		mg/kg	2.0	0.36	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Lead, Total	ND		mg/kg	2.0	0.11	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Magnesium, Total	ND		mg/kg	4.0	0.62	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Manganese, Total	0.07	J	mg/kg	0.40	0.06	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Nickel, Total	ND		mg/kg	1.0	0.10	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Potassium, Total	ND		mg/kg	100	5.8	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Selenium, Total	ND		mg/kg	0.80	0.10	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Silver, Total	ND		mg/kg	0.40	0.11	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Sodium, Total	ND		mg/kg	80	1.3	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Thallium, Total	ND		mg/kg	0.80	0.13	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Vanadium, Total	ND		mg/kg	0.40	0.08	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM
Zinc, Total	ND		mg/kg	2.0	0.12	1	04/11/17 18:20	04/12/17 10:48	1,6010C	AM

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1711107

Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG992932-2 SRM Lot Number: D091-540								
Mercury, Total	98		-		72-128	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG993212-2 SRM Lot Number: D091-540					
Aluminum, Total	75	-	52-148	-	
Antimony, Total	179	-	1-200	-	
Arsenic, Total	110	-	80-121	-	
Barium, Total	110	-	84-117	-	
Beryllium, Total	100	-	83-117	-	
Cadmium, Total	105	-	83-117	-	
Calcium, Total	97	-	81-118	-	
Chromium, Total	105	-	80-119	-	
Cobalt, Total	104	-	84-115	-	
Copper, Total	110	-	82-117	-	
Iron, Total	100	-	47-154	-	
Lead, Total	110	-	82-118	-	
Magnesium, Total	91	-	77-123	-	
Manganese, Total	107	-	82-118	-	
Nickel, Total	108	-	83-117	-	
Potassium, Total	88	-	72-128	-	
Selenium, Total	101	-	79-121	-	
Silver, Total	96	-	75-124	-	
Sodium, Total	99	-	73-126	-	
Thallium, Total	99	-	80-121	-	
Vanadium, Total	104	-	78-122	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1711107

Report Date: 04/17/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG993212-2 SRM Lot Number: D091-540					
Zinc, Total	98	-	82-118	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG992932-3 WG992932-4 QC Sample: L1711022-02 Client ID: MS Sample												
Mercury, Total	ND	0.139	0.18	**130**	Q	0.19	**133**	Q	80-120	5		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG993212-3 WG993212-4 QC Sample: L1710996-04 Client ID: MS Sample												
Aluminum, Total	5900	190	6700	**420**	Q	5700	**0**	Q	75-125	16		20
Antimony, Total	ND	47.6	44	92		44	93		75-125	0		20
Arsenic, Total	6.1	11.4	18	104		17	96		75-125	6		20
Barium, Total	62.	190	250	99		230	88		75-125	8		20
Beryllium, Total	0.20J	4.76	4.3	90		4.3	91		75-125	0		20
Cadmium, Total	ND	4.86	4.4	90		4.4	91		75-125	0		20
Calcium, Total	57000	953	60000	**315**	Q	47000	**0**	Q	75-125	**24**	Q	20
Chromium, Total	9.3	19	26	88		23	**72**	Q	75-125	12		20
Cobalt, Total	2.9	47.6	44	86		43	84		75-125	2		20
Copper, Total	15.	23.8	44	122		42	114		75-125	5		20
Iron, Total	8000	95.3	8600	**630**	Q	6600	**0**	Q	75-125	**26**	Q	20
Lead, Total	82.	48.6	140	119		140	120		75-125	0		20
Magnesium, Total	7300	953	8800	**157**	Q	6800	**0**	Q	75-125	**26**	Q	20
Manganese, Total	290	47.6	340	105		250	**0**	Q	75-125	**31**	Q	20
Nickel, Total	12.	47.6	53	86		48	76		75-125	10		20
Potassium, Total	740	953	1800	111		1600	91		75-125	12		20
Selenium, Total	0.47J	11.4	11	96		11	97		75-125	0		20
Silver, Total	ND	28.6	28	98		28	98		75-125	0		20
Sodium, Total	600	953	1600	105		1600	105		75-125	0		20
Thallium, Total	ND	11.4	8.8	77		9.6	84		75-125	9		20
Vanadium, Total	15.	47.6	60	94		58	91		75-125	3		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG993212-3 WG993212-4 QC Sample: L1710996-04 Client ID: MS Sample									
Zinc, Total	34.	47.6	81	99	89	116	75-125	9	20

INORGANICS
&
MISCELLANEOUS

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-01
Client ID: DS04_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil

Date Collected: 04/10/17 13:30
Date Received: 04/10/17
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	74.0		%	0.100	NA	1	-	04/11/17 00:54	121,2540G	CG
Cyanide, Total	0.23	J	mg/kg	1.3	0.22	1	04/11/17 09:45	04/11/17 17:13	1,9010C/9012B	JO
Chromium, Hexavalent	1.9		mg/kg	1.1	0.22	1	04/11/17 13:16	04/12/17 19:19	1,7196A	WR

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-02
Client ID: DS05_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil

Date Collected: 04/10/17 10:30
Date Received: 04/10/17
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	83.3		%	0.100	NA	1	-	04/11/17 00:54	121,2540G	CG
Cyanide, Total	ND		mg/kg	1.1	0.19	1	04/11/17 09:45	04/11/17 17:04	1,9010C/9012B	JO
Chromium, Hexavalent	0.36	J	mg/kg	0.96	0.19	1	04/11/17 13:16	04/12/17 19:20	1,7196A	WR

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

SAMPLE RESULTS

Lab ID: L1711107-03
Client ID: DS06_3-4
Sample Location: 450 UNION STREET, BROOKLYN, NY
Matrix: Soil

Date Collected: 04/10/17 14:00
Date Received: 04/10/17
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	90.5		%	0.100	NA	1	-	04/11/17 00:54	121,2540G	CG
Cyanide, Total	ND		mg/kg	1.1	0.18	1	04/11/17 09:45	04/11/17 17:04	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.88	0.18	1	04/11/17 13:16	04/12/17 19:20	1,7196A	WR

Project Name: 450 UNION STREET
Project Number: 170301202
Lab Number: L1711107
Report Date: 04/17/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG993000-1										
Cyanide, Total	ND		mg/kg	0.94	0.16	1	04/11/17 09:45	04/11/17 15:48	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG993111-1										
Chromium, Hexavalent	ND		mg/kg	0.80	0.16	1	04/11/17 13:16	04/12/17 19:06	1,7196A	WR

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION STREET

Project Number: 170301202

Lab Number: L1711107

Report Date: 04/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG993000-2 WG993000-3								
Cyanide, Total	86		91		80-120	6		35
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG993111-2								
Chromium, Hexavalent	86		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG993000-4 WG993000-5 QC Sample: L1711082-01 Client ID: MS Sample												
Cyanide, Total	ND	12	13	110		12	100		65-135	8		35
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG993111-4 QC Sample: L1711107-03 Client ID: DS06_3-4												
Chromium, Hexavalent	ND	1240	1200	97		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG992908-1 QC Sample: L1711087-01 Client ID: DUP Sample						
Solids, Total	92.6	94.2	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG993111-6 QC Sample: L1711107-03 Client ID: DS06_3-4						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 04/11/2017 00:53

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1711107-01A	Vial MeOH preserved	A	N/A	4.2	Y	Absent	NYTCL-8260HLW(14)
L1711107-01B	Vial water preserved	A	N/A	4.2	Y	Absent	NYTCL-8260HLW(14)
L1711107-01C	Vial water preserved	A	N/A	4.2	Y	Absent	NYTCL-8260HLW(14)
L1711107-01D	Metals Only - Glass 60mL/2oz unp	A	N/A	4.2	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1711107-01E	Plastic 2oz unpreserved for TS	A	N/A	4.2	Y	Absent	TS(7)
L1711107-01F	Glass 500ml/16oz unpreserved	A	N/A	4.2	Y	Absent	NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1711107-02A	Vial MeOH preserved	A	N/A	4.2	Y	Absent	NYTCL-8260HLW(14)
L1711107-02B	Vial water preserved	A	N/A	4.2	Y	Absent	NYTCL-8260HLW(14)
L1711107-02C	Vial water preserved	A	N/A	4.2	Y	Absent	NYTCL-8260HLW(14)
L1711107-02D	Metals Only - Glass 60mL/2oz unp	A	N/A	4.2	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1711107-02E	Plastic 2oz unpreserved for TS	A	N/A	4.2	Y	Absent	TS(7)

*Values in parentheses indicate holding time in days

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1711107
Report Date: 04/17/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1711107-02F	Glass 500ml/16oz unpreserved	A	N/A	4.2	Y	Absent	NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1711107-03A	Vial MeOH preserved	A	N/A	4.2	Y	Absent	NYTCL-8260HLW(14)
L1711107-03B	Vial water preserved	A	N/A	4.2	Y	Absent	NYTCL-8260HLW(14)
L1711107-03C	Vial water preserved	A	N/A	4.2	Y	Absent	NYTCL-8260HLW(14)
L1711107-03D	Metals Only - Glass 60mL/2oz unp	A	N/A	4.2	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1711107-03E	Plastic 2oz unpreserved for TS	A	N/A	4.2	Y	Absent	TS(7)
L1711107-03F	Glass 500ml/16oz unpreserved	A	N/A	4.2	Y	Absent	NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name:	450 UNION STREET	**Lab Number:**	L1711107
Project Number:	170301202	**Report Date:**	04/17/17

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers

Project Name:	450 UNION STREET	**Lab Number:**	L1711107
Project Number:	170301202	**Report Date:**	04/17/17

Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	450 UNION STREET	**Lab Number:**	L1711107
Project Number:	170301202	**Report Date:**	04/17/17

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-9288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 4/10/17

ALPHA Job #: L1711107

Client Information

Client: Langan Engineering
Address: 360 W 31st Street, Manhattan, NY 10001
Phone: ~~212~~ 212-479-5400
Fax:
Email: nrice@langan.com

Project Information

Project Name: 450 Union Street
Project Location: 450 Union Street, Brooklyn, NY
Project # 170301202
(Use Project name as Project #) ☐
Project Manager: Nicole Rice
ALPHAQuote #:

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☒ # of Days: ASAP

Deliverables

☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	SVOCs	Pesticides	Herbicides	PCBs	Metals	TCLP Metals		Total Bottle
11102-01	DS04-3-4	4/10/17	13:30	Soil	KT	X	X	X	X	X	X			
02	DS05-3-4	4/10/17	10:30	Soil	KT	X	X	X	X	X	X			
03	DS06-3-4	4/10/17	14:00	Soil	KT	X	X	X	X	X	X			
	~~WC-041017~~	~~4/10/17~~	~~13:40~~	~~Soil~~	~~KT~~	~~X~~				~~X~~		~~X~~		(KT)

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type													
Preservative													

Relinquished By:	Date/Time	Received By:	Date/Time
Kyle Tworoby KT	4/10/17 14:15	Paul Magella	4/10/17 14:15
Kyle Kerrigan KAK2	4/10/17 16:45	Paul Magella	4/10/17 17:43
Paul Magella	4/10/17 23:45	Danielle Maida	4/10/17 23:45

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1713623
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Nicole Rice
Phone:	(212) 479-5400
Project Name:	450 UNION ST
Project Number:	170301202
Report Date:	05/05/17

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), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1713623-01	DS07_3-4	SOIL	BROOKLYN, NEW YORK	04/28/17 11:20	04/28/17
L1713623-02	DS08_1-2	SOIL	BROOKLYN, NEW YORK	04/28/17 12:45	04/28/17

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 450 UNION ST
Project Number: 170301202
Lab Number: L1713623
Report Date: 05/05/17

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.

Semivolatile Organics

The WG998923-2/-3 LCS/LCSD recoveries, associated with L1713623-01 and -02, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Metals

L1713623-01 and -02: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Cyanide, Total

L1713623-02: The sample has an elevated detection limit due to the dilution required by the sample matrix.

Chromium, Hexavalent

The WG1000286-5 Soluble MS recovery (15%), performed on L1713623-02, was outside the acceptance criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 99%.

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

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 05/05/17

ORGANICS

VOLATILES

Project Name: 450 UNION ST
Project Number: 170301202
Lab Number: L1713623
Report Date: 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-01
Client ID: DS07_3-4
Sample Location: BROOKLYN, NEW YORK
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/04/17 12:00
Analyst: JC
Percent Solids: 76%

Date Collected: 04/28/17 11:20
Date Received: 04/28/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.32	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.41	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	ND		ug/kg	1.2	0.36	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.0	0.50	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.42	1
Bromodichloromethane	ND		ug/kg	1.2	0.37	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.28	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.25	1
1,1-Dichloropropene	ND		ug/kg	6.0	0.39	1
Bromoform	ND		ug/kg	4.8	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.36	1
Benzene	0.45	J	ug/kg	1.2	0.23	1
Toluene	0.73	J	ug/kg	1.8	0.23	1
Ethylbenzene	ND		ug/kg	1.2	0.20	1
Chloromethane	ND		ug/kg	6.0	0.52	1
Bromomethane	ND		ug/kg	2.4	0.40	1
Vinyl chloride	ND		ug/kg	2.4	0.38	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.44	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.29	1
Trichloroethene	ND		ug/kg	1.2	0.36	1
1,2-Dichlorobenzene	ND		ug/kg	6.0	0.22	1

Project Name: 450 UNION ST **Lab Number:** L1713623

Project Number: 170301202 **Report Date:** 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-01 Date Collected: 04/28/17 11:20

Client ID: DS07_3-4 Date Received: 04/28/17

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.0	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	6.0	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.18	1
p/m-Xylene	0.59	J	ug/kg	2.4	0.42	1
o-Xylene	ND		ug/kg	2.4	0.40	1
Xylenes, Total	0.59	J	ug/kg	2.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.41	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.29	1
Dibromomethane	ND		ug/kg	12	0.28	1
Styrene	ND		ug/kg	2.4	0.48	1
Dichlorodifluoromethane	ND		ug/kg	12	0.60	1
Acetone	17		ug/kg	12	2.7	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.82	1
Vinyl acetate	ND		ug/kg	12	0.18	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.21	1
2-Hexanone	ND		ug/kg	12	0.80	1
Bromochloromethane	ND		ug/kg	6.0	0.43	1
2,2-Dichloropropane	ND		ug/kg	6.0	0.54	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.24	1
1,3-Dichloropropane	ND		ug/kg	6.0	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	6.0	0.26	1
n-Butylbenzene	ND		ug/kg	1.2	0.27	1
sec-Butylbenzene	ND		ug/kg	1.2	0.26	1
tert-Butylbenzene	ND		ug/kg	6.0	0.30	1
o-Chlorotoluene	ND		ug/kg	6.0	0.26	1
p-Chlorotoluene	ND		ug/kg	6.0	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	0.47	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.42	1
Isopropylbenzene	ND		ug/kg	1.2	0.23	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.24	1
Naphthalene	ND		ug/kg	6.0	0.16	1
Acrylonitrile	ND		ug/kg	12	0.61	1
n-Propylbenzene	ND		ug/kg	1.2	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.0	0.19	1

Project Name: 450 UNION ST
Lab Number: L1713623
Project Number: 170301202
Report Date: 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-01
Client ID: DS07_3-4
Sample Location: BROOKLYN, NEW YORK
Date Collected: 04/28/17 11:20
Date Received: 04/28/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.0	0.22	1
1,4-Dioxane	ND		ug/kg	48	17.	1
p-Diethylbenzene	ND		ug/kg	4.8	4.8	1
p-Ethyltoluene	ND		ug/kg	4.8	0.28	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.8	0.19	1
Ethyl ether	ND		ug/kg	6.0	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Project Name: 450 UNION ST
Project Number: 170301202
Lab Number: L1713623
Report Date: 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-02
Client ID: DS08_1-2
Sample Location: BROOKLYN, NEW YORK
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/04/17 12:28
Analyst: JC
Percent Solids: 79%

Date Collected: 04/28/17 12:45
Date Received: 04/28/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.32	1
Chloroform	0.66	J	ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.41	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.36	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.0	0.50	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.42	1
Bromodichloromethane	ND		ug/kg	1.2	0.37	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.28	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.25	1
1,1-Dichloropropene	ND		ug/kg	6.0	0.39	1
Bromoform	ND		ug/kg	4.8	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.36	1
Benzene	ND		ug/kg	1.2	0.23	1
Toluene	2.0		ug/kg	1.8	0.23	1
Ethylbenzene	0.33	J	ug/kg	1.2	0.20	1
Chloromethane	ND		ug/kg	6.0	0.52	1
Bromomethane	ND		ug/kg	2.4	0.40	1
Vinyl chloride	ND		ug/kg	2.4	0.38	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.44	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.29	1
Trichloroethene	ND		ug/kg	1.2	0.36	1
1,2-Dichlorobenzene	ND		ug/kg	6.0	0.22	1

Project Name: 450 UNION ST **Lab Number:** L1713623

Project Number: 170301202 **Report Date:** 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-02 Date Collected: 04/28/17 12:45

Client ID: DS08_1-2 Date Received: 04/28/17

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.0	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	6.0	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.18	1
p/m-Xylene	1.7	J	ug/kg	2.4	0.42	1
o-Xylene	0.67	J	ug/kg	2.4	0.40	1
Xylenes, Total	2.4	J	ug/kg	2.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.41	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.29	1
Dibromomethane	ND		ug/kg	12	0.29	1
Styrene	ND		ug/kg	2.4	0.48	1
Dichlorodifluoromethane	ND		ug/kg	12	0.60	1
Acetone	3.1	J	ug/kg	12	2.7	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.83	1
Vinyl acetate	ND		ug/kg	12	0.18	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.21	1
2-Hexanone	ND		ug/kg	12	0.80	1
Bromochloromethane	ND		ug/kg	6.0	0.43	1
2,2-Dichloropropane	ND		ug/kg	6.0	0.54	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.24	1
1,3-Dichloropropane	ND		ug/kg	6.0	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	6.0	0.26	1
n-Butylbenzene	ND		ug/kg	1.2	0.27	1
sec-Butylbenzene	ND		ug/kg	1.2	0.26	1
tert-Butylbenzene	ND		ug/kg	6.0	0.30	1
o-Chlorotoluene	ND		ug/kg	6.0	0.26	1
p-Chlorotoluene	ND		ug/kg	6.0	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	0.47	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.42	1
Isopropylbenzene	ND		ug/kg	1.2	0.23	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.24	1
Naphthalene	ND		ug/kg	6.0	0.16	1
Acrylonitrile	ND		ug/kg	12	0.62	1
n-Propylbenzene	ND		ug/kg	1.2	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.0	0.19	1

Project Name: 450 UNION ST
Lab Number: L1713623
Project Number: 170301202
Report Date: 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-02
Client ID: DS08_1-2
Sample Location: BROOKLYN, NEW YORK
Date Collected: 04/28/17 12:45
Date Received: 04/28/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.0	0.22	1
1,4-Dioxane	ND		ug/kg	48	17.	1
p-Diethylbenzene	ND		ug/kg	4.8	4.8	1
p-Ethyltoluene	ND		ug/kg	4.8	0.28	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.8	0.19	1
Ethyl ether	ND		ug/kg	6.0	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	105		70-130

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/04/17 10:11
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1000373-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/04/17 10:11
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1000373-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	1.9	J	ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/04/17 10:11
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1000373-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION ST

Project Number: 170301202

Lab Number: L1713623

Report Date: 05/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1000373-3 WG1000373-4								
Methylene chloride	109		102		70-130	7		30
1,1-Dichloroethane	108		101		70-130	7		30
Chloroform	106		101		70-130	5		30
Carbon tetrachloride	116		111		70-130	4		30
1,2-Dichloropropane	106		101		70-130	5		30
Dibromochloromethane	105		101		70-130	4		30
1,1,2-Trichloroethane	102		97		70-130	5		30
Tetrachloroethene	108		100		70-130	8		30
Chlorobenzene	105		99		70-130	6		30
Trichlorofluoromethane	110		104		70-139	6		30
1,2-Dichloroethane	100		96		70-130	4		30
1,1,1-Trichloroethane	109		102		70-130	7		30
Bromodichloromethane	104		100		70-130	4		30
trans-1,3-Dichloropropene	102		97		70-130	5		30
cis-1,3-Dichloropropene	105		102		70-130	3		30
1,1-Dichloropropene	111		106		70-130	5		30
Bromoform	105		103		70-130	2		30
1,1,2,2-Tetrachloroethane	98		96		70-130	2		30
Benzene	108		102		70-130	6		30
Toluene	106		100		70-130	6		30
Ethylbenzene	107		100		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION ST

Project Number: 170301202

Lab Number: L1713623

Report Date: 05/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1000373-3 WG1000373-4								
Chloromethane	102		97		52-130	5		30
Bromomethane	104		102		57-147	2		30
Vinyl chloride	102		94		67-130	8		30
Chloroethane	95		87		50-151	9		30
1,1-Dichloroethene	102		104		65-135	2		30
trans-1,2-Dichloroethene	110		104		70-130	6		30
Trichloroethene	108		103		70-130	5		30
1,2-Dichlorobenzene	100		95		70-130	5		30
1,3-Dichlorobenzene	102		97		70-130	5		30
1,4-Dichlorobenzene	101		96		70-130	5		30
Methyl tert butyl ether	101		97		66-130	4		30
p/m-Xylene	109		102		70-130	7		30
o-Xylene	108		101		70-130	7		30
cis-1,2-Dichloroethene	106		101		70-130	5		30
Dibromomethane	102		99		70-130	3		30
Styrene	108		101		70-130	7		30
Dichlorodifluoromethane	102		95		30-146	7		30
Acetone	90		97		54-140	7		30
Carbon disulfide	88		130		59-130	**39**	Q	30
2-Butanone	86		86		70-130	0		30
Vinyl acetate	104		102		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION ST

Project Number: 170301202

Lab Number: L1713623

Report Date: 05/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1000373-3 WG1000373-4								
4-Methyl-2-pentanone	97		94		70-130	3		30
1,2,3-Trichloropropane	96		94		68-130	2		30
2-Hexanone	90		89		70-130	1		30
Bromochloromethane	107		101		70-130	6		30
2,2-Dichloropropane	110		103		70-130	7		30
1,2-Dibromoethane	102		97		70-130	5		30
1,3-Dichloropropane	101		96		69-130	5		30
1,1,1,2-Tetrachloroethane	106		101		70-130	5		30
Bromobenzene	103		98		70-130	5		30
n-Butylbenzene	106		100		70-130	6		30
sec-Butylbenzene	107		101		70-130	6		30
tert-Butylbenzene	107		100		70-130	7		30
o-Chlorotoluene	87		83		70-130	5		30
p-Chlorotoluene	102		98		70-130	4		30
1,2-Dibromo-3-chloropropane	98		99		68-130	1		30
Hexachlorobutadiene	106		99		67-130	7		30
Isopropylbenzene	108		101		70-130	7		30
p-Isopropyltoluene	107		101		70-130	6		30
Naphthalene	93		92		70-130	1		30
Acrylonitrile	101		100		70-130	1		30
n-Propylbenzene	107		101		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION ST

Project Number: 170301202

Lab Number: L1713623

Report Date: 05/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1000373-3 WG1000373-4								
1,2,3-Trichlorobenzene	98		93		70-130	5		30
1,2,4-Trichlorobenzene	98		94		70-130	4		30
1,3,5-Trimethylbenzene	106		99		70-130	7		30
1,2,4-Trimethylbenzene	106		100		70-130	6		30
1,4-Dioxane	109		111		65-136	2		30
p-Diethylbenzene	108		100		70-130	8		30
p-Ethyltoluene	107		101		70-130	6		30
1,2,4,5-Tetramethylbenzene	104		98		70-130	6		30
Ethyl ether	94		90		67-130	4		30
trans-1,4-Dichloro-2-butene	98		96		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		96		70-130
Toluene-d8	101		99		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	101		101		70-130

SEMIVOLATILES

Project Name: 450 UNION ST
Project Number: 170301202
Lab Number: L1713623
Report Date: 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-01
Client ID: DS07_3-4
Sample Location: BROOKLYN, NEW YORK
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/04/17 16:43
Analyst: SZ
Percent Solids: 76%

Date Collected: 04/28/17 11:20
Date Received: 04/28/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/30/17 02:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	130	J	ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	29.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	4400		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	200	28.	1
Naphthalene	110	J	ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	200	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	170	J	ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	55.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1

Project Name: 450 UNION ST **Lab Number:** L1713623

Project Number: 170301202 **Report Date:** 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-01 Date Collected: 04/28/17 11:20

Client ID: DS07_3-4 Date Received: 04/28/17

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	2400		ug/kg	130	24.	1
Benzo(a)pyrene	1900		ug/kg	170	53.	1
Benzo(b)fluoranthene	2500		ug/kg	130	36.	1
Benzo(k)fluoranthene	860		ug/kg	130	35.	1
Chrysene	2400		ug/kg	130	22.	1
Acenaphthylene	190		ug/kg	170	34.	1
Anthracene	510		ug/kg	130	42.	1
Benzo(ghi)perylene	1200		ug/kg	170	26.	1
Fluorene	120	J	ug/kg	220	21.	1
Phenanthrene	2300		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	340		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	1400		ug/kg	170	30.	1
Pyrene	4100		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	50.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	87	J	ug/kg	220	20.	1
2-Methylnaphthalene	60	J	ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	72.	1
2-Nitrophenol	ND		ug/kg	470	82.	1
4-Nitrophenol	ND		ug/kg	300	89.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	210	J	ug/kg	220	21.	1

Project Name: 450 UNION ST **Lab Number:** L1713623

Project Number: 170301202 **Report Date:** 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-01 Date Collected: 04/28/17 11:20

Client ID: DS07_3-4 Date Received: 04/28/17

Sample Location: BROOKLYN, NEW YORK 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	53		25-120
Phenol-d6	55		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	48		30-120
2,4,6-Tribromophenol	53		10-136
4-Terphenyl-d14	37		18-120

Project Name: 450 UNION ST
Project Number: 170301202
Lab Number: L1713623
Report Date: 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-02
Client ID: DS08_1-2
Sample Location: BROOKLYN, NEW YORK
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/05/17 03:11
Analyst: RC
Percent Solids: 79%

Date Collected: 04/28/17 12:45
Date Received: 04/28/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/30/17 02:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	31	J	ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	37.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	880		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	38	J	ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1

Project Name: 450 UNION ST **Lab Number:** L1713623

Project Number: 170301202 **Report Date:** 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-02 Date Collected: 04/28/17 12:45

Client ID: DS08_1-2 Date Received: 04/28/17

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	490		ug/kg	120	23.	1
Benzo(a)pyrene	440		ug/kg	170	51.	1
Benzo(b)fluoranthene	570		ug/kg	120	35.	1
Benzo(k)fluoranthene	210		ug/kg	120	33.	1
Chrysene	500		ug/kg	120	22.	1
Acenaphthylene	32	J	ug/kg	170	32.	1
Anthracene	120		ug/kg	120	40.	1
Benzo(ghi)perylene	300		ug/kg	170	24.	1
Fluorene	36	J	ug/kg	210	20.	1
Phenanthrene	440		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	78	J	ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	320		ug/kg	170	29.	1
Pyrene	840		ug/kg	120	21.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	20	J	ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	33.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	97.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	51	J	ug/kg	210	20.	1

Project Name: 450 UNION ST **Lab Number:** L1713623

Project Number: 170301202 **Report Date:** 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-02 Date Collected: 04/28/17 12:45

Client ID: DS08_1-2 Date Received: 04/28/17

Sample Location: BROOKLYN, NEW YORK 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	53		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	51		30-120
2,4,6-Tribromophenol	48		10-136
4-Terphenyl-d14	38		18-120

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/02/17 21:03
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 04/30/17 02:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG998923-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/02/17 21:03
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 04/30/17 02:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG998923-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/02/17 21:03
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 04/30/17 02:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG998923-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	54		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	51		10-136
4-Terphenyl-d14	62		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG998923-2 WG998923-3								
Acenaphthene	54		61		31-137	12		50
1,2,4-Trichlorobenzene	52		58		38-107	11		50
Hexachlorobenzene	54		61		40-140	12		50
Bis(2-chloroethyl)ether	51		58		40-140	13		50
2-Chloronaphthalene	52		59		40-140	13		50
1,2-Dichlorobenzene	50		55		40-140	10		50
1,3-Dichlorobenzene	50		55		40-140	10		50
1,4-Dichlorobenzene	50		56		28-104	11		50
3,3'-Dichlorobenzidine	52		59		40-140	13		50
2,4-Dinitrotoluene	57		68		40-132	18		50
2,6-Dinitrotoluene	56		63		40-140	12		50
Fluoranthene	57		64		40-140	12		50
4-Chlorophenyl phenyl ether	55		62		40-140	12		50
4-Bromophenyl phenyl ether	54		64		40-140	17		50
Bis(2-chloroisopropyl)ether	51		59		40-140	15		50
Bis(2-chloroethoxy)methane	53		61		40-117	14		50
Hexachlorobutadiene	46		52		40-140	12		50
Hexachlorocyclopentadiene	51		60		40-140	16		50
Hexachloroethane	49		54		40-140	10		50
Isophorone	56		64		40-140	13		50
Naphthalene	50		56		40-140	11		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG998923-2 WG998923-3								
Nitrobenzene	51		60		40-140	16		50
NDPA/DPA	57		65		36-157	13		50
n-Nitrosodi-n-propylamine	54		62		32-121	14		50
Bis(2-ethylhexyl)phthalate	55		64		40-140	15		50
Butyl benzyl phthalate	57		67		40-140	16		50
Di-n-butylphthalate	60		69		40-140	14		50
Di-n-octylphthalate	55		63		40-140	14		50
Diethyl phthalate	57		65		40-140	13		50
Dimethyl phthalate	55		62		40-140	12		50
Benzo(a)anthracene	58		65		40-140	11		50
Benzo(a)pyrene	61		70		40-140	14		50
Benzo(b)fluoranthene	59		67		40-140	13		50
Benzo(k)fluoranthene	59		67		40-140	13		50
Chrysene	56		63		40-140	12		50
Acenaphthylene	55		62		40-140	12		50
Anthracene	58		64		40-140	10		50
Benzo(ghi)perylene	60		68		40-140	13		50
Fluorene	56		63		40-140	12		50
Phenanthrene	55		62		40-140	12		50
Dibenzo(a,h)anthracene	60		69		40-140	14		50
Indeno(1,2,3-cd)pyrene	59		68		40-140	14		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG998923-2 WG998923-3								
Pyrene	56		64		35-142	13		50
Biphenyl	55		62		54-104	12		50
4-Chloroaniline	40		44		40-140	10		50
2-Nitroaniline	55		64		47-134	15		50
3-Nitroaniline	50		56		26-129	11		50
4-Nitroaniline	56		65		41-125	15		50
Dibenzofuran	55		62		40-140	12		50
2-Methylnaphthalene	51		58		40-140	13		50
1,2,4,5-Tetrachlorobenzene	53		60		40-117	12		50
Acetophenone	56		65		14-144	15		50
2,4,6-Trichlorophenol	54		61		30-130	12		50
p-Chloro-m-cresol	57		64		26-103	12		50
2-Chlorophenol	52		61		25-102	16		50
2,4-Dichlorophenol	57		65		30-130	13		50
2,4-Dimethylphenol	67		79		30-130	16		50
2-Nitrophenol	52		62		30-130	18		50
4-Nitrophenol	56		65		11-114	15		50
2,4-Dinitrophenol	36		37		4-130	3		50
4,6-Dinitro-o-cresol	46		52		10-130	12		50
Pentachlorophenol	48		57		17-109	17		50
Phenol	54		64		26-90	17		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION ST

Project Number: 170301202

Lab Number: L1713623

Report Date: 05/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG998923-2 WG998923-3								
2-Methylphenol	56		65		30-130.	15		50
3-Methylphenol/4-Methylphenol	56		65		30-130	15		50
2,4,5-Trichlorophenol	56		63		30-130	12		50
Benzoic Acid	**0**	Q	**0**	Q	10-110	NC		50
Benzyl Alcohol	54		62		40-140	14		50
Carbazole	56		65		54-128	15		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	52		61		25-120
Phenol-d6	55		64		10-120
Nitrobenzene-d5	51		59		23-120
2-Fluorobiphenyl	51		58		30-120
2,4,6-Tribromophenol	54		62		10-136
4-Terphenyl-d14	55		63		18-120

PCBS

Project Name: 450 UNION ST
Project Number: 170301202
Lab Number: L1713623
Report Date: 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-01
Client ID: DS07_3-4
Sample Location: BROOKLYN, NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/03/17 20:34
Analyst: AF
Percent Solids: 76%

Date Collected: 04/28/17 11:20
Date Received: 04/28/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/30/17 18:56
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/17
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.9	3.31	1	A
Aroclor 1221	ND		ug/kg	41.9	3.86	1	A
Aroclor 1232	ND		ug/kg	41.9	4.91	1	A
Aroclor 1242	ND		ug/kg	41.9	5.13	1	A
Aroclor 1248	ND		ug/kg	41.9	3.54	1	A
Aroclor 1254	ND		ug/kg	41.9	3.44	1	A
Aroclor 1260	ND		ug/kg	41.9	3.19	1	A
Aroclor 1262	ND		ug/kg	41.9	2.08	1	A
Aroclor 1268	ND		ug/kg	41.9	6.08	1	A
PCBs, Total	ND		ug/kg	41.9	2.08	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: 450 UNION ST
Project Number: 170301202
Lab Number: L1713623
Report Date: 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-02
Client ID: DS08_1-2
Sample Location: BROOKLYN, NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/03/17 20:46
Analyst: AF
Percent Solids: 79%

Date Collected: 04/28/17 12:45
Date Received: 04/28/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/30/17 18:56
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/17
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.0	3.24	1	A
Aroclor 1221	ND		ug/kg	41.0	3.78	1	A
Aroclor 1232	ND		ug/kg	41.0	4.81	1	A
Aroclor 1242	ND		ug/kg	41.0	5.02	1	A
Aroclor 1248	ND		ug/kg	41.0	3.46	1	A
Aroclor 1254	23.2	J	ug/kg	41.0	3.37	1	A
Aroclor 1260	16.0	J	ug/kg	41.0	3.13	1	B
Aroclor 1262	ND		ug/kg	41.0	2.04	1	A
Aroclor 1268	ND		ug/kg	41.0	5.95	1	A
PCBs, Total	39.2	J	ug/kg	41.0	3.13	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/02/17 03:25
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 04/30/17 18:56
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/17
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG998983-1						
Aroclor 1016	ND		ug/kg	33.0	2.60	A
Aroclor 1221	ND		ug/kg	33.0	3.04	A
Aroclor 1232	ND		ug/kg	33.0	3.86	A
Aroclor 1242	ND		ug/kg	33.0	4.03	A
Aroclor 1248	ND		ug/kg	33.0	2.78	A
Aroclor 1254	ND		ug/kg	33.0	2.71	A
Aroclor 1260	ND		ug/kg	33.0	2.51	A
Aroclor 1262	ND		ug/kg	33.0	1.63	A
Aroclor 1268	ND		ug/kg	33.0	4.78	A
PCBs, Total	ND		ug/kg	33.0	1.63	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	64		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION ST

Project Number: 170301202

Lab Number: L1713623

Report Date: 05/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG998983-2 WG998983-3									
Aroclor 1016	99		93		40-140	6		50	A
Aroclor 1260	93		88		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		89		30-150	A
Decachlorobiphenyl	66		58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		85		30-150	B
Decachlorobiphenyl	69		60		30-150	B

PESTICIDES

Project Name: 450 UNION ST
Project Number: 170301202
Lab Number: L1713623
Report Date: 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-01
Client ID: DS07_3-4
Sample Location: BROOKLYN, NEW YORK
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/04/17 12:54
Analyst: GP
Percent Solids: 76%

Date Collected: 04/28/17 11:20
Date Received: 04/28/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/30/17 13:08
Cleanup Method: EPA 3620B
Cleanup Date: 05/01/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.02	0.396	1	A
Lindane	ND		ug/kg	0.842	0.376	1	A
Alpha-BHC	ND		ug/kg	0.842	0.239	1	A
Beta-BHC	ND		ug/kg	2.02	0.766	1	A
Heptachlor	ND		ug/kg	1.01	0.453	1	A
Aldrin	ND		ug/kg	2.02	0.711	1	A
Heptachlor epoxide	1.26	J	ug/kg	3.79	1.14	1	B
Endrin	3.47	PI	ug/kg	0.842	0.345	1	B
Endrin aldehyde	ND		ug/kg	2.52	0.884	1	A
Endrin ketone	16.9	P	ug/kg	2.02	0.520	1	B
Dieldrin	ND		ug/kg	1.26	0.631	1	A
4,4'-DDE	ND		ug/kg	2.02	0.467	1	A
4,4'-DDD	1.14	JPI	ug/kg	2.02	0.721	1	A
4,4'-DDT	ND		ug/kg	3.79	1.62	1	A
Endosulfan I	ND		ug/kg	2.02	0.477	1	A
Endosulfan II	ND		ug/kg	2.02	0.675	1	A
Endosulfan sulfate	ND		ug/kg	0.842	0.401	1	A
Methoxychlor	20.7	PI	ug/kg	3.79	1.18	1	A
Toxaphene	ND		ug/kg	37.9	10.6	1	A
cis-Chlordane	0.806	J	ug/kg	2.52	0.704	1	B
trans-Chlordane	2.21	JPI	ug/kg	2.52	0.667	1	A
Chlordane	ND		ug/kg	16.4	6.69	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	68		30-150	B
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	67		30-150	A

Project Name: 450 UNION ST
Project Number: 170301202
Lab Number: L1713623
Report Date: 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-01
Client ID: DS07_3-4
Sample Location: BROOKLYN, NEW YORK
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/02/17 21:38
Analyst: SL
Percent Solids: 76%
Methylation Date: 05/02/17 00:30

Date Collected: 04/28/17 11:20
Date Received: 04/28/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 05/01/17 06:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	215	13.6	1	A
2,4,5-T	ND		ug/kg	215	6.67	1	A
2,4,5-TP (Silvex)	ND		ug/kg	215	5.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	113		30-150	A
DCAA	80		30-150	B

Project Name: 450 UNION ST
Project Number: 170301202
Lab Number: L1713623
Report Date: 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-02
Client ID: DS08_1-2
Sample Location: BROOKLYN, NEW YORK
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/04/17 13:07
Analyst: GP
Percent Solids: 79%

Date Collected: 04/28/17 12:45
Date Received: 04/28/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/30/17 13:08
Cleanup Method: EPA 3620B
Cleanup Date: 05/01/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.94	0.380	1	A
Lindane	ND		ug/kg	0.808	0.361	1	A
Alpha-BHC	ND		ug/kg	0.808	0.229	1	A
Beta-BHC	ND		ug/kg	1.94	0.735	1	A
Heptachlor	ND		ug/kg	0.969	0.434	1	A
Aldrin	3.54		ug/kg	1.94	0.682	1	A
Heptachlor epoxide	2.69	J	ug/kg	3.64	1.09	1	B
Endrin	ND		ug/kg	0.808	0.331	1	A
Endrin aldehyde	ND		ug/kg	2.42	0.848	1	A
Endrin ketone	ND		ug/kg	1.94	0.499	1	A
Dieldrin	13.3		ug/kg	1.21	0.606	1	B
4,4'-DDE	3.24	P	ug/kg	1.94	0.448	1	A
4,4'-DDD	3.35	P	ug/kg	1.94	0.691	1	A
4,4'-DDT	6.64		ug/kg	3.64	1.56	1	B
Endosulfan I	ND		ug/kg	1.94	0.458	1	A
Endosulfan II	ND		ug/kg	1.94	0.648	1	A
Endosulfan sulfate	ND		ug/kg	0.808	0.384	1	A
Methoxychlor	ND		ug/kg	3.64	1.13	1	A
Toxaphene	ND		ug/kg	36.4	10.2	1	A
cis-Chlordane	11.5		ug/kg	2.42	0.675	1	A
trans-Chlordane	7.92	PI	ug/kg	2.42	0.640	1	A
Chlordane	87.2		ug/kg	15.8	6.42	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	60		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	51		30-150	A

Project Name: 450 UNION ST
Project Number: 170301202
Lab Number: L1713623
Report Date: 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-02
Client ID: DS08_1-2
Sample Location: BROOKLYN, NEW YORK
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/02/17 21:18
Analyst: SL
Percent Solids: 79%
Methylation Date: 05/02/17 00:30

Date Collected: 04/28/17 12:45
Date Received: 04/28/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 05/01/17 06:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	209	13.1	1	A
2,4,5-T	ND		ug/kg	209	6.47	1	A
2,4,5-TP (Silvex)	ND		ug/kg	209	5.55	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	108		30-150	A
DCAA	72		30-150	B

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/03/17 20:26
Analyst: DM

Extraction Method: EPA 3546
Extraction Date: 04/30/17 13:08
Cleanup Method: EPA 3620B
Cleanup Date: 05/01/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG998961-1						
Delta-BHC	ND		ug/kg	1.55	0.303	A
Lindane	ND		ug/kg	0.645	0.288	A
Alpha-BHC	ND		ug/kg	0.645	0.183	A
Beta-BHC	ND		ug/kg	1.55	0.587	A
Heptachlor	ND		ug/kg	0.774	0.347	A
Aldrin	ND		ug/kg	1.55	0.545	A
Heptachlor epoxide	ND		ug/kg	2.90	0.871	A
Endrin	ND		ug/kg	0.645	0.264	A
Endrin aldehyde	ND		ug/kg	1.94	0.677	A
Endrin ketone	ND		ug/kg	1.55	0.399	A
Dieldrin	ND		ug/kg	0.968	0.484	A
4,4'-DDE	ND		ug/kg	1.55	0.358	A
4,4'-DDD	ND		ug/kg	1.55	0.552	A
4,4'-DDT	ND		ug/kg	2.90	1.24	A
Endosulfan I	ND		ug/kg	1.55	0.366	A
Endosulfan II	ND		ug/kg	1.55	0.517	A
Endosulfan sulfate	ND		ug/kg	0.645	0.307	A
Methoxychlor	ND		ug/kg	2.90	0.903	A
Toxaphene	ND		ug/kg	29.0	8.13	A
cis-Chlordane	ND		ug/kg	1.94	0.539	A
trans-Chlordane	ND		ug/kg	1.94	0.511	A
Chlordane	ND		ug/kg	12.6	5.13	A

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/03/17 20:26
Analyst: DM

Extraction Method: EPA 3546
Extraction Date: 04/30/17 13:08
Cleanup Method: EPA 3620B
Cleanup Date: 05/01/17

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG998961-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	59		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	71		30-150	A

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 05/02/17 12:06
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 05/01/17 06:28

Methylation Date: 05/02/17 00:30

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-02 Batch: WG999019-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.02	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.31	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	60		30-150	A
DCAA	61		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION ST

Project Number: 170301202

Lab Number: L1713623

Report Date: 05/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG998961-2 WG998961-3									
Delta-BHC	84		88		30-150	5		30	A
Lindane	83		87		30-150	5		30	A
Alpha-BHC	87		90		30-150	3		30	A
Beta-BHC	91		88		30-150	3		30	A
Heptachlor	86		90		30-150	5		30	A
Aldrin	83		87		30-150	5		30	A
Heptachlor epoxide	83		86		30-150	4		30	A
Endrin	88		93		30-150	6		30	A
Endrin aldehyde	64		68		30-150	6		30	A
Endrin ketone	84		85		30-150	1		30	A
Dieldrin	91		96		30-150	5		30	A
4,4'-DDE	88		91		30-150	3		30	A
4,4'-DDD	84		87		30-150	4		30	A
4,4'-DDT	95		98		30-150	3		30	A
Endosulfan I	82		87		30-150	6		30	A
Endosulfan II	87		88		30-150	1		30	A
Endosulfan sulfate	71		71		30-150	0		30	A
Methoxychlor	93		91		30-150	2		30	A
cis-Chlordane	78		84		30-150	7		30	A
trans-Chlordane	74		77		30-150	4		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION ST

Project Number: 170301202

Lab Number: L1713623

Report Date: 05/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG998961-2 WG998961-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		84		30-150	B
Decachlorobiphenyl	72		75		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		85		30-150	A
Decachlorobiphenyl	84		85		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION ST

Project Number: 170301202

Lab Number: L1713623

Report Date: 05/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG999019-2 WG999019-3									
2,4-D	57		67		30-150	16		30	A
2,4,5-T	64		76		30-150	17		30	A
2,4,5-TP (Silvex)	59		70		30-150	17		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	49		57		30-150	A
DCAA	58		64		30-150	B

METALS

Project Name: 450 UNION ST
Project Number: 170301202
Lab Number: L1713623
Report Date: 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-01
Client ID: DS07_3-4
Sample Location: BROOKLYN, NEW YORK
Matrix: Soil
Percent Solids: 76%

Date Collected: 04/28/17 11:20
Date Received: 04/28/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4700		mg/kg	10	2.8	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
Antimony, Total	3.6	J	mg/kg	5.2	0.40	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
Arsenic, Total	14		mg/kg	1.0	0.22	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
Barium, Total	79		mg/kg	1.0	0.18	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
Beryllium, Total	0.26	J	mg/kg	0.52	0.03	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
Cadmium, Total	0.93	J	mg/kg	1.0	0.10	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
Calcium, Total	6500		mg/kg	10	3.6	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
Chromium, Total	16		mg/kg	1.0	0.10	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
Cobalt, Total	7.7		mg/kg	2.1	0.17	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
Copper, Total	500		mg/kg	1.0	0.27	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
Iron, Total	45000		mg/kg	5.2	0.94	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
Lead, Total	410		mg/kg	5.2	0.28	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
Magnesium, Total	1600		mg/kg	10	1.6	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
Manganese, Total	450		mg/kg	1.0	0.16	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
Mercury, Total	1.3		mg/kg	0.09	0.02	1	05/02/17 08:10	05/02/17 12:31	EPA 7471B	1,7471B	BV
Nickel, Total	24		mg/kg	2.6	0.25	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
Potassium, Total	820		mg/kg	260	15.	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	2.1	0.27	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	1.0	0.30	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
Sodium, Total	150	J	mg/kg	210	3.3	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	2.1	0.33	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
Vanadium, Total	22		mg/kg	1.0	0.21	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
Zinc, Total	510		mg/kg	5.2	0.30	2	05/02/17 18:55	05/03/17 15:31	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	15	J	mg/kg	1.0	1.0	1		05/04/17 22:57	NA	107,-	

Project Name: 450 UNION ST
Project Number: 170301202
Lab Number: L1713623
Report Date: 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-02
Client ID: DS08_1-2
Sample Location: BROOKLYN, NEW YORK
Matrix: Soil
Percent Solids: 79%

Date Collected: 04/28/17 12:45
Date Received: 04/28/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3000		mg/kg	10	2.7	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	5.1	0.39	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
Arsenic, Total	2.5		mg/kg	1.0	0.21	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
Barium, Total	28		mg/kg	1.0	0.18	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
Beryllium, Total	0.08	J	mg/kg	0.51	0.03	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
Cadmium, Total	0.20	J	mg/kg	1.0	0.10	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
Calcium, Total	9700		mg/kg	10	3.6	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
Chromium, Total	6.6		mg/kg	1.0	0.10	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
Cobalt, Total	2.4		mg/kg	2.0	0.17	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
Copper, Total	72		mg/kg	1.0	0.26	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
Iron, Total	5100		mg/kg	5.1	0.92	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
Lead, Total	32		mg/kg	5.1	0.27	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
Magnesium, Total	3200		mg/kg	10	1.6	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
Manganese, Total	120		mg/kg	1.0	0.16	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
Mercury, Total	0.18		mg/kg	0.08	0.02	1	05/02/17 08:10	05/02/17 12:33	EPA 7471B	1,7471B	BV
Nickel, Total	7.0		mg/kg	2.5	0.24	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
Potassium, Total	460		mg/kg	250	15.	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	2.0	0.26	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	1.0	0.29	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
Sodium, Total	100	J	mg/kg	200	3.2	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	2.0	0.32	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
Vanadium, Total	8.7		mg/kg	1.0	0.21	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
Zinc, Total	61		mg/kg	5.1	0.30	2	05/02/17 18:55	05/03/17 16:08	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	5.9	J	mg/kg	1.0	1.0	1		05/04/17 22:57	NA	107,-	

Project Name: 450 UNION ST
Project Number: 170301202
Lab Number: L1713623
Report Date: 05/05/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG999336-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	05/02/17 08:10	05/02/17 12:14	1,7471B	BV

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG999647-1										
Aluminum, Total	ND		mg/kg	4.0	1.1	1	05/02/17 18:55	05/03/17 15:43	1,6010C	AB
Antimony, Total	ND		mg/kg	2.0	0.15	1	05/02/17 18:55	05/03/17 15:43	1,6010C	AB
Arsenic, Total	ND		mg/kg	0.40	0.08	1	05/02/17 18:55	05/03/17 15:43	1,6010C	AB
Barium, Total	ND		mg/kg	0.40	0.07	1	05/02/17 18:55	05/03/17 15:43	1,6010C	AB
Beryllium, Total	ND		mg/kg	0.20	0.01	1	05/02/17 18:55	05/03/17 15:43	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.40	0.04	1	05/02/17 18:55	05/03/17 15:43	1,6010C	AB
Calcium, Total	ND		mg/kg	4.0	1.4	1	05/02/17 18:55	05/03/17 15:43	1,6010C	AB
Chromium, Total	ND		mg/kg	0.40	0.04	1	05/02/17 18:55	05/03/17 17:56	1,6010C	AB
Cobalt, Total	ND		mg/kg	0.80	0.07	1	05/02/17 18:55	05/03/17 15:43	1,6010C	AB
Copper, Total	ND		mg/kg	0.40	0.10	1	05/02/17 18:55	05/03/17 15:43	1,6010C	AB
Iron, Total	ND		mg/kg	2.0	0.36	1	05/02/17 18:55	05/03/17 17:56	1,6010C	AB
Lead, Total	ND		mg/kg	2.0	0.11	1	05/02/17 18:55	05/03/17 15:43	1,6010C	AB
Magnesium, Total	ND		mg/kg	4.0	0.62	1	05/02/17 18:55	05/03/17 15:43	1,6010C	AB
Manganese, Total	0.13	J	mg/kg	0.40	0.06	1	05/02/17 18:55	05/03/17 15:43	1,6010C	AB
Nickel, Total	0.70	J	mg/kg	1.0	0.10	1	05/02/17 18:55	05/03/17 15:43	1,6010C	AB
Potassium, Total	ND		mg/kg	100	5.8	1	05/02/17 18:55	05/03/17 15:43	1,6010C	AB
Selenium, Total	ND		mg/kg	0.80	0.10	1	05/02/17 18:55	05/03/17 15:43	1,6010C	AB
Silver, Total	ND		mg/kg	0.40	0.11	1	05/02/17 18:55	05/03/17 15:43	1,6010C	AB
Sodium, Total	ND		mg/kg	80	1.3	1	05/02/17 18:55	05/03/17 15:43	1,6010C	AB
Thallium, Total	ND		mg/kg	0.80	0.13	1	05/02/17 18:55	05/03/17 15:43	1,6010C	AB
Vanadium, Total	ND		mg/kg	0.40	0.08	1	05/02/17 18:55	05/03/17 15:43	1,6010C	AB
Zinc, Total	ND		mg/kg	2.0	0.12	1	05/02/17 18:55	05/03/17 15:43	1,6010C	AB

Project Name: 450 UNION ST
Project Number: 170301202
Lab Number: L1713623
Report Date: 05/05/17

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION ST

Project Number: 170301202

Lab Number: L1713623

Report Date: 05/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG999336-2 SRM Lot Number: D091-540								
Mercury, Total	106		-		72-128	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION ST

Project Number: 170301202

Lab Number: L1713623

Report Date: 05/05/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG999647-2 SRM Lot Number: D091-540					
Aluminum, Total	58	-	52-148	-	
Antimony, Total	163	-	1-200	-	
Arsenic, Total	96	-	80-121	-	
Barium, Total	91	-	84-117	-	
Beryllium, Total	88	-	83-117	-	
Cadmium, Total	99	-	83-117	-	
Calcium, Total	84	-	81-118	-	
Chromium, Total	91	-	80-119	-	
Cobalt, Total	104	-	84-115	-	
Copper, Total	92	-	82-117	-	
Iron, Total	73	-	47-154	-	
Lead, Total	96	-	82-118	-	
Magnesium, Total	87	-	77-123	-	
Manganese, Total	91	-	82-118	-	
Nickel, Total	101	-	83-117	-	
Potassium, Total	83	-	72-128	-	
Selenium, Total	96	-	79-121	-	
Silver, Total	80	-	75-124	-	
Sodium, Total	86	-	73-126	-	
Thallium, Total	99	-	80-121	-	
Vanadium, Total	87	-	78-122	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION ST

Project Number: 170301202

Lab Number: L1713623

Report Date: 05/05/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG999647-2 SRM Lot Number: D091-540					
Zinc, Total	93	-	82-118	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG999336-3 QC Sample: L1713631-01 Client ID: MS Sample												
Mercury, Total	6.2	0.156	27	**13400**	Q	-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG999647-3 QC Sample: L1713603-01 Client ID: MS Sample										
Aluminum, Total	3100	187	3600	**268**	Q	-	-	75-125	-	20
Antimony, Total	0.43J	46.6	29	**62**	Q	-	-	75-125	-	20
Arsenic, Total	15.	11.2	22	**62**	Q	-	-	75-125	-	20
Barium, Total	27.	187	150	**66**	Q	-	-	75-125	-	20
Beryllium, Total	0.06J	4.66	2.8	**60**	Q	-	-	75-125	-	20
Cadmium, Total	0.16J	4.76	3.1	**65**	Q	-	-	75-125	-	20
Calcium, Total	1000	933	1500	**54**	Q	-	-	75-125	-	20
Chromium, Total	23.	18.7	31	**43**	Q	-	-	75-125	-	20
Cobalt, Total	2.5	46.6	28	**55**	Q	-	-	75-125	-	20
Copper, Total	30.	23.3	44	**60**	Q	-	-	75-125	-	20
Iron, Total	21000	93.3	19000	**0**	Q	-	-	75-125	-	20
Lead, Total	15.	47.6	43	**59**	Q	-	-	75-125	-	20
Magnesium, Total	440	933	870	**46**	Q	-	-	75-125	-	20
Manganese, Total	56.	46.6	68	**26**	Q	-	-	75-125	-	20
Nickel, Total	5.8	46.6	32	**56**	Q	-	-	75-125	-	20
Potassium, Total	260	933	770	**55**	Q	-	-	75-125	-	20
Selenium, Total	ND	11.2	6.3	**56**	Q	-	-	75-125	-	20
Silver, Total	ND	28	17	**61**	Q	-	-	75-125	-	20
Sodium, Total	28.J	933	610	**65**	Q	-	-	75-125	-	20
Thallium, Total	ND	11.2	5.0	**45**	Q	-	-	75-125	-	20
Vanadium, Total	21.	46.6	60	84		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG999647-3 QC Sample: L1713603-01 Client ID: MS Sample										
Zinc, Total	45.	46.6	68	**49**	Q	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG999336-4 QC Sample: L1713631-01 Client ID: DUP Sample						
Mercury, Total	6.2	3.8	mg/kg	**48**	Q	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG999647-4 QC Sample: L1713603-01 Client ID: DUP Sample						
Aluminum, Total	3100	3100	mg/kg	0		20
Antimony, Total	0.43J	1.1J	mg/kg	NC		20
Arsenic, Total	15.	11	mg/kg	**31**	Q	20
Barium, Total	27.	26	mg/kg	4		20
Beryllium, Total	0.06J	0.09J	mg/kg	NC		20
Cadmium, Total	0.16J	0.27J	mg/kg	NC		20
Calcium, Total	1000	910	mg/kg	9		20
Chromium, Total	23.	26	mg/kg	12		20
Cobalt, Total	2.5	4.1	mg/kg	**48**	Q	20
Copper, Total	30.	37	mg/kg	**21**	Q	20
Iron, Total	21000	25000	mg/kg	17		20
Lead, Total	15.	26	mg/kg	**54**	Q	20
Magnesium, Total	440	420	mg/kg	5		20
Manganese, Total	56.	83	mg/kg	**39**	Q	20
Nickel, Total	5.8	6.2	mg/kg	7		20
Potassium, Total	260	260	mg/kg	0		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	28.J	25J	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG999647-4 QC Sample: L1713603-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	21.	25	mg/kg	17	20
Zinc, Total	45.	52	mg/kg	14	20

INORGANICS
&
MISCELLANEOUS

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-01
Client ID: DS07_3-4
Sample Location: BROOKLYN, NEW YORK
Matrix: Soil

Date Collected: 04/28/17 11:20
Date Received: 04/28/17
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	76.0		%	0.100	NA	1	-	04/29/17 10:28	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.20	1	04/29/17 17:19	05/02/17 12:21	1,9010C/9012B	DE
Chromium, Hexavalent	0.91	J	mg/kg	1.0	0.21	1	05/04/17 10:54	05/04/17 22:57	1,7196A	WR

Project Name: 450 UNION ST
Project Number: 170301202
Lab Number: L1713623
Report Date: 05/05/17

SAMPLE RESULTS

Lab ID: L1713623-02
Client ID: DS08_1-2
Sample Location: BROOKLYN, NEW YORK
Matrix: Soil
Date Collected: 04/28/17 12:45
Date Received: 04/28/17
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	78.7		%	0.100	NA	1	-	04/29/17 10:28	121,2540G	RI
Cyanide, Total	ND		mg/kg	2.4	0.40	2	05/02/17 11:55	05/02/17 15:38	1,9010C/9012B	DE
Chromium, Hexavalent	0.74	J	mg/kg	1.0	0.20	1	05/04/17 10:54	05/04/17 22:57	1,7196A	WR

Project Name: 450 UNION ST
Project Number: 170301202
Lab Number: L1713623
Report Date: 05/05/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1000286-1										
Chromium, Hexavalent	0.26	J	mg/kg	0.80	0.16	1	05/04/17 10:54	05/04/17 22:57	1,7196A	WR
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG998878-1										
Cyanide, Total	ND		mg/kg	0.98	0.16	1	04/29/17 17:19	05/02/17 11:57	1,9010C/9012B	DE

Lab Control Sample Analysis

Batch Quality Control

Project Name: 450 UNION ST

Project Number: 170301202

Lab Number: L1713623

Report Date: 05/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1000286-2								
Chromium, Hexavalent	99		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG998878-2 WG998878-3								
Cyanide, Total	99		95		80-120	3		35

Matrix Spike Analysis
Batch Quality Control

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1000286-4 QC Sample: L1713623-02 Client ID: DS08_1-2												
Chromium, Hexavalent	0.74J	1190	980	82		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG998878-4 WG998878-5 QC Sample: L1713546-14 Client ID: MS Sample												
Cyanide, Total	ND	12	10	86		10	87		65-135	0		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1000286-6 QC Sample: L1713623-02 Client ID: DS08_1-2						
Chromium, Hexavalent	0.74J	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG998811-1 QC Sample: L1713775-03 Client ID: DUP Sample						
Solids, Total	85.7	86.2	%	1		20

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 04/29/2017 09:11

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1713623-01A	Vial MeOH preserved	A	N/A	2.2	Y	Absent	NYTCL-8260HLW(14)
L1713623-01B	Vial water preserved	A	N/A	2.2	Y	Absent	NYTCL-8260HLW(14)
L1713623-01C	Vial water preserved	A	N/A	2.2	Y	Absent	NYTCL-8260HLW(14)
L1713623-01D	Plastic 2oz unpreserved for TS	A	N/A	2.2	Y	Absent	TS(7)
L1713623-01E	Metals Only - Glass 60mL/2oz unp	A	N/A	2.2	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1713623-01F	Glass 250ml/8oz unpreserved	A	N/A	2.2	Y	Absent	TCN-9010(14),HEXCR-7196(30)
L1713623-01G	Glass 500ml/16oz unpreserved	A	N/A	2.2	Y	Absent	NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1713623-02A	Vial MeOH preserved	A	N/A	2.2	Y	Absent	NYTCL-8260HLW(14)
L1713623-02B	Vial water preserved	A	N/A	2.2	Y	Absent	NYTCL-8260HLW(14)
L1713623-02C	Vial water preserved	A	N/A	2.2	Y	Absent	NYTCL-8260HLW(14)
L1713623-02D	Plastic 2oz unpreserved for TS	A	N/A	2.2	Y	Absent	TS(7)
L1713623-02E	Metals Only - Glass 60mL/2oz unp	A	N/A	2.2	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1713623-02F	Glass 250ml/8oz unpreserved	A	N/A	2.2	Y	Absent	TCN-9010(14),HEXCR-7196(30)
L1713623-02G	Glass 500ml/16oz unpreserved	A	N/A	2.2	Y	Absent	NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)

*Values in parentheses indicate holding time in days

Project Name: 450 UNION ST
Project Number: 170301202

Lab Number: L1713623
Report Date: 05/05/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)

*Values in parentheses indicate holding time in days

Project Name:	450 UNION ST	**Lab Number:**	L1713623
Project Number:	170301202	**Report Date:**	05/05/17

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers

Project Name:	450 UNION ST	**Lab Number:**	L1713623
Project Number:	170301202	**Report Date:**	05/05/17

Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	450 UNION ST	**Lab Number:**	L1713623
Project Number:	170301202	**Report Date:**	05/05/17

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 4/29/17

ALPHA Job #: L1713623

Client Information

Client: Langan Engineering
Address: 360 West 31st St
New York, New York
Phone: 212-479-5400
Fax: nrice@langan.com
Email: atashji@langan.com

Project Information

Project Name: 450 Union St
Project Location: Brooklyn, New York
Project # 170301202
(Use Project name as Project #) ☐
Project Manager: ~~Nicole Rice~~ Nicole Rice
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☒ Other Standard excel, PDF

Billing Information

☒ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs, SVOCs, PCBs	Herbicides, Pesticides, Hex chrome, Total cyanide	TAL Metals	Total Solids	Total Bottle	Sample Specific Comments
13623-01	DS07_3-4	4/28/17	1120	S	WK	X	X	X	X		
-02	DS08_1-2	↓	1245	↓	↓	X	X	X	X		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	4/28/17 / 1255		4/28/17 1255
	4/28/17 2000		4/28/17 2000
	4/29/17 0110		4/29/17 0110

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

APPENDIX G

IMPORTED MATERIAL DOCUMENTATION

Bubonia Holding Corp	**[01W33]**	NYUTM East: 600465	NYUTM North: 4726765
ACTIVITY DESCRIPTION:	C&D processing - registration		
OWNER TYPE:	Private	360 PERMIT NUMBER:	01W33R
REGULATORY STATUS:	Registration	PERMIT ISSUED:	---
		PERMIT EXPIRES:	---
OWNER:	Stephen J. Bubonia	CONTACT:	Stephen J. Bubonia
ADDRESS:	18 West Albany Drive	ADDRESS:	18 West Albany Drive
(*Mailing*):	Colonie, NY 12205	(*Location*):	Colonie, NY 12205
PHONE:	(518)438-8900	PHONE:	(518)438-8900
WASTE TYPE:	Asphalt, Concrete, Wood (Brush/ Branches/ Trees/ Stumps), Wood (Unadulterated), Brick	Date of Last Inspection:	

Callanan - Ravena Facility	**[01W50]**	NYUTM East: 595837	NYUTM North: 4700445
ACTIVITY DESCRIPTION:	C&D processing - registration		
OWNER TYPE:	Private	360 PERMIT NUMBER:	01W50R
REGULATORY STATUS:	Registration	PERMIT ISSUED:	---
		PERMIT EXPIRES:	---
OWNER:	Callanan Industries, Inc	CONTACT:	Peter Zeh
ADDRESS:	PO Box 15097	ADDRESS:	Route 9W
(*Mailing*):	Albany, NY 12212	(*Location*):	Coeymans, NY 12143
PHONE:	(518)374-2222	PHONE:	(518)374-2222
WASTE TYPE:	Asphalt	Date of Last Inspection:	

Callanan Watervliet Asphalt Plant	**[01W11]**	NYUTM East: 609203	NYUTM North: 4730050
ACTIVITY DESCRIPTION:	C&D processing - registration		
OWNER TYPE:		360 PERMIT NUMBER:	---
REGULATORY STATUS:		PERMIT ISSUED:	---
		PERMIT EXPIRES:	---
OWNER:	Callanan Industries Inc	CONTACT:	Peter Zeh
ADDRESS:	PO Box 15097	ADDRESS:	100 Crabapple Lane
(*Mailing*):	Albany, NY 12212	(*Location*):	Watervliet, NY 12189
PHONE:	(518)374-2222	PHONE:	(518)374-2222
WASTE TYPE:	Asphalt	Date of Last Inspection:	

Coeymans Recycling Center LLC	**[01W31]**	NYUTM East: 598993	NYUTM North: 4703810
ACTIVITY DESCRIPTION:	C&D processing - registration		
OWNER TYPE:	Private	360 PERMIT NUMBER:	01W31
REGULATORY STATUS:	Registration	PERMIT ISSUED:	01/18/2012
		PERMIT EXPIRES:	---
OWNER:	Carver Laraway	CONTACT:	
ADDRESS:	494 Western Turnpike	ADDRESS:	40 Riverview Drive
(*Mailing*):	Altamont, NY 12009	(*Location*):	Coeymans, NY 12045
PHONE:		PHONE:	
WASTE TYPE:	Concrete	Date of Last Inspection:	

USC ATLANTIC
CONCRETE LABORATORY

Aggregate Test Report

NEW YORK SAND & STONE
THE CITY QUARRY

Report Date : 5/5/2016

173250 - LIME 3/4" ASTM #57

Sample ID :	ship1	Customer :	
Sample Date :	5/4/2016	Project :	
Sample By :	MARK CEDENO	Laboratory :	NY_LAB - ECMI - NEW YORK LAB
Supplier :	LAFARGE	Plant :	25TH STREET
Supplier Source :	RAVENA	Specification :	ASTM C33 #57
Supplier Reference No :		Class :	

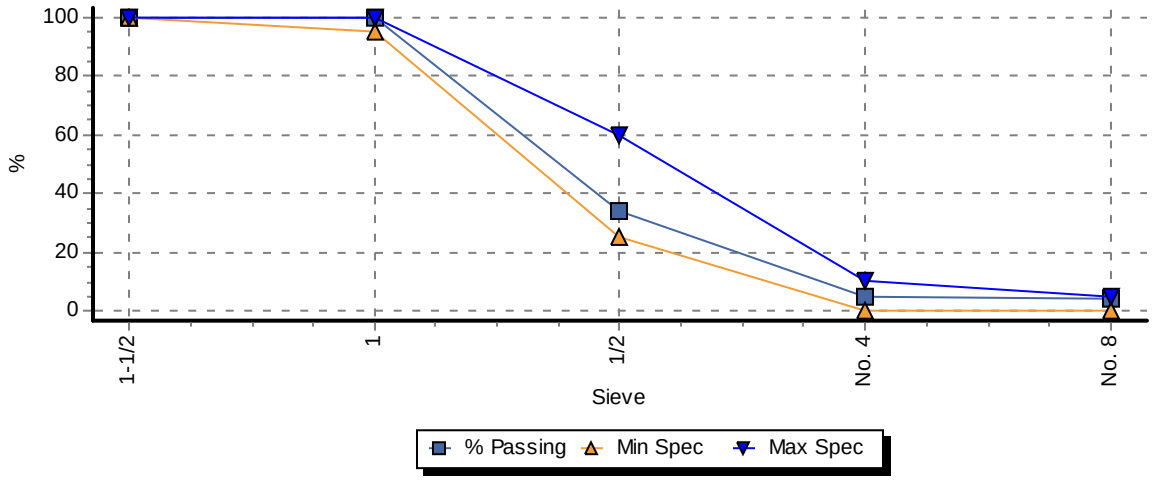
Sieve (in)	% Passing	Specification	
		Min	Max
1-1/2	100.0	100.0	100.0
1	99.5	95.0	100.0
1/2	34.3	25.0	60.0
No. 4	4.8	0.0	10.0
No. 8	4.1	0.0	5.0

Testing Results

Fineness Modulus	7.00

Comments :

Grading Chart



Project Engineer :

Test Lab Supervisor : MORSIA THOMAS

Date : 5/5/2016

Certification #:

47-14-020 (04/00)
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

REGISTRATION FORM FOR A SOLID WASTE MANAGEMENT FACILITY

Please read and follow all instructions before completing this registration form

DEPARTMENT USE ONLY

DEC REGISTRATION # 41W64

DEC ADMINISTRATION #

DATE RECEIVED 4/30/09

PLEASE TYPE OR PRINT CLEARLY

THIS IS NOT AN UPA PERMIT

1. FACILITY NAME AND LOCATION Pebble Lane Associates	2. FACILITY OWNER'S NAME Pebble Lane Associates LLC
Street 57-00 47th Street	Mailing Address 57-00 47th Street
City/Village Maspeth	City/Town/Village Maspeth
Town County Queens	State/Zip Code New York 11378
Telephone Number (718) 456-8636	Telephone Number (718) 456-8636
3. FACILITY OPERATOR'S NAME (if different)	4. SITE OWNER'S NAME (if different) 5700 Maspeth Avenue LLC and Emilio & Sabatino Lamanna
Mailing Address	Mailing Address 57-00 47th Street
City/Town/Village	City/Town/Village Maspeth
State/Zip Code	State/Zip Code New York 11378
Telephone Number	Telephone Number (718) 456-8636

5. TYPE OF FACILITY REGISTRATION (check all applicable)

- ☐ Energy Recovery Incinerators or Pyrolysis Units [360-3.1(c)]
- ☐ Land Clearing Debris Landfills three acres or less [360-7.2(a)]
- ☐ Transfer Stations (municipally owned/operated/contracted) receiving less than 50,000 cubic yards or 12,500 tons of household solid waste annually [360-11.1(b)(i)]
- ☐ Transfer Stations (municipally owned/operated/contracted) receiving less than 50,000 cubic yards or 12,500 tons of containerized solid waste annually [360-11.1(b)(2)]
- ☐ Source Separated, Nonputrescible Solid Waste Recyclables Handling and Recovery Facilities [360-12.1(d)]
- ☐ Waste Tire Retreaders [360-13.1(d)(1)(i)]
- ☐ Waste Tire Stored for On-site Energy Recovery [360-13.1(d)(1)(ii)]
- ☐ Tire Dealers Selling Waste Tires [360-13.1(d)(1)(iii)]
- ☐ Tire Manufacturing Facilities [360-13.1(d)(1)(iv)]
- ☑ Processing Facilities Receiving Only Recognizable Uncontaminated Concrete, Asphalt Pavement, Brick, Soil or Rock [360-16.1(d)(1)(i)]
- ☐ Uncontaminated Unadulterated Wood Processing Facilities [360-16.1(d)(1)(ii)]
- ☐ Other Facilities not specifically described above, specify type

6. SOLID WASTE HANDLED

a. List wastes and/or materials to be accepted
Material allowed pursuant to Section 360-16.1(d)(1)(i)

b. Quantity (specify Units - see instructions)
design capacity 7,500 fill/700 tons recyclables
storage on site 7,500 fill/2,100 tons recyclables

7. OPERATIONS SCHEDULE - Normal schedule of operation
7 days-24 hours

8. NAME(S) OF ALL MUNICIPALITIES SERVED
New York Metro Region

9. CERTIFICATION: I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits was prepared by me or under my supervision and direction and is true to the best of my knowledge and belief, and that I have the authority as Vice President title) of Pebble Lane Associates LLC (Entity) to sign this registration form pursuant to 6 NYCRR Part 360. By signing this registration form, I affirm that I have read the applicable regulations and will abide by all conditions of the registration requirements. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Printed/Typed Name	Signature	Mo.	Day	Year
Hasib Ikramullah		4	27	09

REGIONAL OFFICE COPY - COPY #1

NYC CONCRETE MATERIALS
PEBBLE LANE ASSOCIATES
AGGREGATES • RECYCLED PRODUCTS
U.S. CONCRETE COMPANIES

Technical Service Report Material Analysis

DEC Registration #41W64

Client		Date Sampled	17-Jun-16
Source	PL-Recycled Concrete Subbase	Date Tested	20-Jun-16
Barge		Plant	NYC Concrete Materials
Material	304.12	Tested By	Mark C.

Sieve Size	Wgt. Ret Accum	%Retained Accum	Passing %	Specification %Passing
4"	0	0.0%	**100.0%**	
3"	0	0.0%	**100.0%**	100
2"	0	0.0%	**100.0%**	90-100
1"	50	0.4%	**99.6%**	
3/4"	1960	13.7%	**86.3%**	
1/2"	5493	38.5%	**61.5%**	
3/8"	7140	50.0%	**50.0%**	
1/4"	8795	61.6%	**38.4%**	30-65
#4	9405	65.9%	**34.1%**	
Pan	14250	99.8%	0.2%	
#8	120.1	19.2%	**27.6%**	
#16	210.2	33.6%	**22.7%**	
#30	321.2	51.4%	**16.6%**	
#40	393.5	63.0%	**12.6%**	5-40
#50	458.6	73.4%	**9.1%**	
#80	514.2	82.3%	**6.1%**	0-10
#100	532.8	85.2%	**5.0%**	
#200	567.8	90.8%	3.1%	0-10
Pan	576.2	92.2%	2.7%	

Wash #200 Before	625	**After**	576.2	**% Diffrence**	8.1%

Remarks	**1/2 Pan -**	2470	**Pan -**	4845
	1/4 Pan -	1250	**Total Weight -**	14280.0

NYC CONCRETE MATERIALS

READY-MIX • AGGREGATE

A U.S. CONCRETE COMPANY

RECYCLE LOCATION:

Pebble Lane: 5700 47th Street
Maspeth, NY 11378 718-456-2520

1-718-456-2520
Remit to: P.O. Box 29305
New York, NY 10087

READY-MIX ORDERS & LOCATIONS
800-822-7242

TICKET NUMBER
25108273

WARNING: AVOID BREATHING DUST – Excessive exposure by breathing dust containing crystalline silica over an extended period of time may result in the development of pulmonary diseases including pneumoconiosis and silicosis. Crystalline silica has been determined by IARC and NTP to be a possible carcinogen. Use with adequate ventilation or respiratory protection.

Varied Clay or Shale/Sand/Gravel:
Health: 2
Flammability: 0
Reactivity:
Personal Protection: Dust Mask

NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE HEALTH WARNING NOTICE AND SUPPLIER WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE AND AGREE TO THE TERMS AND CONDITIONS ON REVERSE SIDE. TIME IN EXCESS OF FREE TIME WILL BE CHARGED AT CURRENT DELAY RATE. ALL C.O.D. DELIVERIES MUST BE PAID IN ADVANCE AND LOAD ACCEPTED BY SIGNING THIS DELIVERY TICKET BEFORE UNLOADING MATERIALS.

LOAD RECEIVED BY:

X _____

PROPERTY DAMAGE RELEASE
(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer – The size and weight of this truck could cause damage to the premises and/or adjacent property if this load is placed where you desire. It is our wish to help you in every way that we can, but in order to do this we are requesting that you sign this RELEASE relieving this supplier and its affiliates from any responsibility from damage that may occur to the premises and/or adjacent property,buildings, sidewalks, drive-ways, curbs, etc. due to the delivery of this material, and that you also agree to help the driver remove mud from the wheels of his vehicle so that it will not litter the public street. Further, as additional consideration; the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier and its affiliates for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED: X _____

LIMITED WARRANTY AND WARRANTY DISCLAIMER

Seller only warrants that the aggregate shall conform with the precise description of the product that appears on the face of this delivery ticket and, therefore, SELLER HEREBY EXPRESSLY DISCLAIMS ANY AND ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED IN NATURE, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE UNDER THE UNIFORM COMMERCIAL CODE.

AS EVIDENCED BY SIGNATURE, OR DEPARTURE FROM SELLER'S FACILITY, HAULER ACKNOWLEDGES THAT HAULER IS SOLELY RESPONSIBLE FOR THE ACCURACY OF THIS VEHICLE'S TARE WEIGHT, AXLE WEIGHTS AND GROSS WEIGHT. HAULER SHALL BE RESPONSIBLE FOR NOTIFYING SELLER WHEN ANY TRUCK OR TRAILER HAS BEEN OVERLOADED SO AS TO RENDER IT OUT OF COMPLIANCE WITH ANY APPLICABLE WEIGHT LIMITS. TO THE MAXIMUM EXTENT ALLOWED BY LAW, HAULER SHALL INDEMNIFY SELLER FOR ANY LOSS CAUSED BY OVERLOADING.

TRUCK TARE AND GROSS WEIGHTS ARE DETERMINED WITH THE DRIVER ON THE VEHICLE.

CUSTOMER	CUSTOMER CODE	DELIVERY ADDRESS
BROOKSIDE ENVIRONMENTAL	1405527	450 UNION STREET, BROOKLYN
PROJECT NAME	**PROJECT CODE**	
(PL) UNION STREET	1543753	
CUSTOMER P.O. #	**SPECIAL INSTRUCTIONS**	
	516-849-0709 MIKE	
CUSTOMER JOB ID #		

LOAD QUANTITY	ORDERED QTY	CUMULATIVE QTY	PRODUCT ID	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
20.00CY	20.00	20.00	272F55	STRUCT FILL DOT		

TIME	ARRIVE JOB	LEAVE JOB	LOAD #	HAULER	SUB TOTAL
06:01			1	HILLWICK INC	

DATE	ORDER #	PLANT	TRUCK #	DELIVERY PROFESSIONAL	TAX
03/02/17	3001	60	E130	LICENSE PLATE AS205W	

GROSS	DEPUTY WEIGHTMASTER	ORDER GRAND TOTAL	TOTAL
	LENTENO, BRYANT		

TARE
NET
20.00CY
TONS
20.00CY

CONTROL #
10906052

NYC CONCRETE MATERIALS

READY-MIX • AGGREGATE

A U.S. CONCRETE COMPANY

RECYCLE LOCATION:

Pebble Lane: 5700 47th Street
Maspeth, NY 11378 718-456-2520

READY-MIX
ORDERS & LOCATIONS
800-822-7242

718-456-2520
Remit to: P. O. Box 29305
New York, NY 10087

TICKET NUMBER

25110332

WARNING: AVOID BREATHING DUST – Excessive exposure by breathing dust containing crystalline silica over an extended period of time may result in the development of pulmonary diseases including pneumoconiosis and silicosis. Crystalline silica has been determined by JARO and NTP to be a possible carcinogen. Use with adequate ventilation or respiratory protection.

Vitrified Clay or Shale/Sand/Gravel:
Health: 2*
Flammability: 0
Reactivity: 0
Personal Protection: Dust Mask

NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE HEALTH WARNING NOTICE AND SUPPLIER WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE AND AGREE TO THE TERMS AND CONDITIONS ON REVERSE SIDE. TIME IN EXCESS OF FREE TIME WILL BE CHARGED AT CURRENT DELAY RATE. ALL C.O.D. DELIVERIES MUST BE PAID IN ADVANCE AND LOAD ACCEPTED BY SIGNING THIS DELIVERY TICKET BEFORE UNLOADING MATERIALS.

LOAD RECEIVED BY:

X _____

PROPERTY DAMAGE RELEASE
(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer – The size and weight of this truck could cause damage to the premises and/or adjacent property if this load is placed where you desire. It is our wish to help you in every way that we can, but in order to do this we are requesting that you sign this RELEASE relieving this supplier and its affiliates from any responsibility from damage that may occur to the premises and/or adjacent property, buildings, sidewalks, drive-ways, curbs, etc., due to the delivery of this material, and that you also agree to help the driver remove mud from the wheels of his vehicle so that it will not litter the public street. Further, as additional consideration; the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier and its affiliates for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED: X _____

LIMITED WARRANTY AND WARRANTY DISCLAIMER

Seller only warrants that the aggregate shall conform with the precise description of the product that appears on the face of this delivery ticket and, therefore, **SELLER HEREBY EXPRESSLY DISCLAIMS ANY AND ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED IN NATURE, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE UNDER THE UNIFORM COMMERCIAL CODE.**

AS EVIDENCED BY SIGNATURE, OR DEPARTURE FROM SELLER'S FACILITY, HAULER ACKNOWLEDGES THAT HAULER IS SOLELY RESPONSIBLE FOR THE ACCURACY OF THIS VEHICLE'S TARE WEIGHT, AXLE WEIGHTS AND GROSS WEIGHT. HAULER SHALL BE RESPONSIBLE FOR NOTIFYING SELLER WHEN ANY TRUCK OR TRAILER HAS BEEN OVERLOADED SO AS TO RENDER IT OUT OF COMPLIANCE WITH ANY APPLICABLE WEIGHT LIMITS. TO THE MAXIMUM EXTENT ALLOWED BY LAW, HAULER SHALL INDEMNIFY SELLER FOR ANY LOSS CAUSED BY OVERLOADING.

TRUCK TARE AND GROSS WEIGHTS ARE DETERMINED WITH THE DRIVER ON THE VEHICLE.

CUSTOMER	CUSTOMER CODE	DELIVERY ADDRESS
BROOKSIDE ENVIRONMENTAL	1405527	450 UNION STREET, BROOKLYN
PROJECT NAME	**PROJECT CODE**	
(PL) UNION STREET	1543753	
CUSTOMER P.O. #	**SPECIAL INSTRUCTIONS**	
	516-849-0709 MIKE	
CUSTOMER JOB ID #		

LOAD QUANTITY	ORDERED QTY	CUMULATIVE QTY	PRODUCT ID	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
20.00CY	20.00	20.00	272F5S	STRUCT FILL DOT		

TIME	ARRIVE JOB	LEAVE JOB	LOAD #	HAULER	SUB TOTAL
07:17				JOB	
DATE	**ORDER #**	**PLANT**	**TRUCK #**	**DELIVERY PROFESSIONAL**	**TAX**
04/06/17	3004	06	6142BMG	LICENSE PLATE 6142BMG	
				ORDER GRAND TOTAL	**TOTAL**
GROSS	**DEPUTY WEIGHTMASTER**				
	CORRY LYTHIA				
TARE					
NET 20CY 20.00CY					
TONS 20.00CY					

CONTROL #

10908118

NYC CONCRETE MATERIALS

READY-MIX • AGGREGATE

A U.S. CONCRETE COMPANY

RECYCLE LOCATION:

Pebble Lane: 5700 47th Street
Maspeth, NY 11378 718-456-2520

READY-MIX
ORDERS & LOCATIONS
800-822-7242

1-718-456-2520
Remit to: P. O. Box 29305
New York, NY 10087

TICKET NUMBER

25110337

WARNING: AVOID BREATHING DUST – Excessive exposure by breathing dust containing crystalline silica over an extended period of time may result in the development of pulmonary diseases including pneumoconiosis and silicosis. Crystalline silica has been determined by JARO and NTP to be a possible carcinogen. Use with adequate ventilation or respiratory protection.

Vitrified Clay or Shale/Sand/Gravel:
Health: 2*
Flammability: 0
Reactivity: 0
Personal Protection: Dust Mask

NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE HEALTH WARNING NOTICE AND SUPPLIER WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE AND AGREE TO THE TERMS AND CONDITIONS ON REVERSE SIDE. TIME IN EXCESS OF FREE TIME WILL BE CHARGED AT CURRENT DELAY RATE. ALL C.O.D. DELIVERIES MUST BE PAID IN ADVANCE AND LOAD ACCEPTED BY SIGNING THIS DELIVERY TICKET BEFORE UNLOADING MATERIALS.

LOAD RECEIVED BY:

X _____

PROPERTY DAMAGE RELEASE
(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer – The size and weight of this truck could cause damage to the premises and/or adjacent property if this load is placed where you desire. It is our wish to help you in every way that we can, but in order to do this we are requesting that you sign this RELEASE relieving this supplier and its affiliates from any responsibility from damage that may occur to the premises and/or adjacent property, buildings, sidewalks, drive-ways, curbs, etc., due to the delivery of this material, and that you also agree to help the driver remove mud from the wheels of his vehicle so that it will not litter the public street. Further, as additional consideration, the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier and its affiliates for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED: X _____

LIMITED WARRANTY AND WARRANTY DISCLAIMER

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TRUCK TARE AND GROSS WEIGHTS ARE DETERMINED WITH THE DRIVER ON THE VEHICLE.

CUSTOMER: BROOKSIDE ENVIRONMENTAL	CUSTOMER CODE: 1405527	DELIVERY ADDRESS: 450 UNION STREET, BROOKLYN
PROJECT NAME: (PL) UNION STREET	PROJECT CODE: 1543753	
CUSTOMER P.O. #	SPECIAL INSTRUCTIONS: 516-849-0709 MIKE	
CUSTOMER JOB ID #		

LOAD QUANTITY	ORDERED QTY	CUMULATIVE QTY	PRODUCT ID	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
20.00cy	20.00	40.00	272F59	STRUCT FILL DOT		

TIME	ARRIVE JOB	LEAVE JOB	LOAD #	HAULER	SUB TOTAL
09:15			2	YOB	

DATE	ORDER #	PLANT	TRUCK #	DELIVERY PROFESSIONAL	TAX
04/06/17	30074	80	61428MG	LICENSE PLATE 61428MG	

GROSS	DEPUTY WEIGHMASTER	ORDER GRAND TOTAL	TOTAL
	COUNTY LYTHIA		

TARE	
NET	20CY 20.00CY
TONS	20.00CY

CONTROL #

10908123

NYC CONCRETE MATERIALS

READY-MIX • AGGREGATE

A U.S. CONCRETE COMPANY

RECYCLE LOCATION:

Pebble Lane: 5700 47th Street
Maspeth, NY 11378 718-456-2520

READY-MIX
ORDERS & LOCATIONS
800-822-7242

1-718-456-2520
Remit to: P. O. Box 29305
New York, NY 10087

TICKET NUMBER
25110348

WARNING: AVOID BREATHING DUST – Excessive exposure by breathing dust containing crystalline silica over an extended period of time may result in the development of pulmonary diseases including pneumoconiosis and silicosis. Crystalline silica has been determined by JARO and NTP to be a possible carcinogen. Use with adequate ventilation or respiratory protection.

Vitrified Clay or Shale/Sand/Gravel:
Health: 2*
Flammability: 0
Reactivity: 0
Personal Protection: Dust Mask

NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE HEALTH WARNING NOTICE AND SUPPLIER WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE AND AGREE TO THE TERMS AND CONDITIONS ON REVERSE SIDE. TIME IN EXCESS OF FREE TIME WILL BE CHARGED AT CURRENT DELAY RATE. ALL C.O.D. DELIVERIES MUST BE PAID IN ADVANCE AND LOAD ACCEPTED BY SIGNING THIS DELIVERY TICKET BEFORE UNLOADING MATERIALS.

LOAD RECEIVED BY:

X _____

PROPERTY DAMAGE RELEASE
(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

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SIGNED: X _____

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TRUCK TARE AND GROSS WEIGHTS ARE DETERMINED WITH THE DRIVER ON THE VEHICLE.

CUSTOMER	CUSTOMER CODE	DELIVERY ADDRESS
BROOKSIDE ENVIRONMENTAL	1405527	450 UNION STREET, BROOKLYN
PROJECT NAME	**PROJECT CODE**	
(PL) UNION STREET	1543753	
CUSTOMER P.O. #	**SPECIAL INSTRUCTIONS**	
	516-849-0709 MIKE	
CUSTOMER JOB ID #		

LOAD QUANTITY	ORDERED QTY	CUMULATIVE QTY	PRODUCT ID	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
20.00CY	20.00	60.00	272FSS	STRUCT FILL DOT		

TIME	ARRIVE JOB	LEAVE JOB	LOAD #	HAULER	SUB TOTAL
12:00			3	FOB	

DATE	ORDER #	PLANT	TRUCK #	DELIVERY PROFESSIONAL	TAX
04/06/17	3004	60	61428MG	LICENSE PLATE 61428MG	

GROSS	DEPUTY WEIGHTMASTER	ORDER GRAND TOTAL	TOTAL
	GERRY LYTHIA		

TARE	
NET	20CY 20.00CY
TONS	20.00CY

CONTROL #
10908134

NEW YORK SAND & STONE
THE CITY QUARRY

NEW YORK SAND & STONE, LLC
BROOKLYN NAVY YARD
63 FLUSHING AVE., 11205
TEL: 718/596-2897

25TH STREET TERMINAL
75 25TH ST., BROOKLYN, NY 11232
INWOOD TERMINAL
1 SHERIDAN BLVD., INWOOD, NY 11096
PIER J
BROOKLYN NAVY YARD, PIER J, BROOKLYN, NY 11205

53020409
TICKET

PLANT	SCALE	DATE	TIME	ORDER #
55		04/10/17	09:51	11024

SHIPPING PLANT	SOURCE CODE	JOB#	JOB LOCATION
25TH STREET			

CUSTOMER CODE	CUSTOMER NAME	HAULER
1405537	BROOKSIDE ENVIRONMENTAL	FOB

PROJECT CODE	PROJECT NAME	TRUCK	TRUCK LICENSE
		61428MG	61428MG

DELV TYPE	ZONE
PICKED UP	53082

DRIVER PRINTED NAME (NO INITIALS)

DRIVER SIGNATURE

DELIVERY ADDRESS: 450 UNION STREET BROOKLYN

PO #

INSTRUCTION

ITEM CODE	DESCRIPTION	UNIT	EXTENDED
173250	LIME #57 3/4" ST		
	AGG HAUL CHARGE		

GROSS	69540 LBS	34.77 TN	WEIGHMASTER	ANAULA		SUB TOTAL	
TARE	29220 LBS	14.61 TN	LOADS TODAY:	1	ARRIVE JOB	TAX	
NET	40320 LBS	20.16 TN	TONS TODAY:	20.1	LEAVE JOB	TOTAL	

CUSTOMER SIGNATURE

10980730

Customer and its designated carrier accept full responsibility for all claims arising out of the delivery and use of the materi als described herein, including compliance with all laws and regulations (including carrier weight limitations), and any damages caused during the delivery, ha ndling or use of the materials and hereby agrees to indemnify and defend New York Sand & Stone, LLC. from any such claims. Customer is solely responsible for dete rmining the suitability of the materials for its intended purpose and accepts the materials "AS IS", without any representations or warranties, including fitn ess for a particular purpose.

CUSTOMER COPY

NEW YORK SAND & STONE
THE CITY QUARRY

NEW YORK SAND & STONE, LLC
BROOKLYN NAVY YARD
63 FLUSHING AVE., 11205
TEL: 718/596-2897

25TH STREET TERMINAL
75 25TH ST., BROOKLYN, NY 11232
INWOOD TERMINAL
1 SHERIDAN BLVD., INWOOD, NY 11096
PIER J
BROOKLYN NAVY YARD, PIER J, BROOKLYN, NY 11205

53020556 TICKET

PLANT	SCALE	DATE	TIME	ORDER #
	53	04/12/17	11:03	11024

SHIPPING PLANT	SOURCE CODE	JOB#	JOB LOCATION
25TH STREET			

CUSTOMER CODE	CUSTOMER NAME	HAULER
1405527	BROOKSIDE ENVIRONMENTAL	FOB

PROJECT CODE	PROJECT NAME	TRUCK	TRUCK LICENSE
		79842JR	79842JR

DELV TYPE	ZONE		
PICKED UP	53082		

DRIVER PRINTED NAME (NO INITIALS) DRIVER SIGNATURE

DELIVERY ADDRESS 450 UNION STREET PO #

INSTRUCTION

ITEM CODE	DESCRIPTION	UNIT	EXTENDED
173250	LIME #57 3/4" ST		
	ASD HAUL CHARGE		

GROSS	36400 LBS	18.20 TN	WEIGHMASTER	TWARREN		SUB TOTAL	
TARE	25520 LBS	12.76 TN	LOADS TODAY: 1	ARRIVE JOB		TAX	
NET	10880 LBS	5.44 TN	TONS TODAY: 5.4	LEAVE JOB		TOTAL	

10980877

CUSTOMER SIGNATURE

Customer and its design... accept full responsibility for all claims arising out of the delivery and use of the materials described herein, including compliance with all law... s (including carrier weight limitations), and any damages caused during the delivery, ha ndling or use of the materials and hereby agrees to ... New York Sand & Stone, LLC from any such claims. Customer is solely responsible for dete rmining the suitability of the materials for i... accepts the materials "AS IS", without any representations or warranties, including fitn ess for a particular purpose.

CUSTOMER COPY

NEW YORK SAND & STONE, LLC
BROOKLYN NAVY YARD
63 FLUSHING AVE., 11205
TEL: 718/596-2897

25TH STREET TERMINAL
75 25TH ST., BROOKLYN, NY 11232
INWOOD TERMINAL
1 SHERIDAN BLVD., INWOOD, NY 11096
PIER J
BROOKLYN NAVY YARD, PIER J, BROOKLYN, NY 11205

53021587 TICKET

PLANT	SCALE	DATE	TIME	ORDER #
	93	04/28/17	11:45	11024

SHIPPING PLANT	SOURCE CODE	JOB#	JOB LOCATION
25TH STREET			

CUSTOMER CODE	CUSTOMER NAME	HAULER
1405527	BROOKSIDE ENVIRONMENTAL	FOB

PROJECT CODE	PROJECT NAME	TRUCK	TRUCK LICENSE
1544164	(NYSS) UNION STREET	79842JR	79842JR

DELV TYPE	ZONE
PICKED UP	53008

DRIVER PRINTED NAME (NO INITIALS) DRIVER SIGNATURE

DELIVERY ADDRESS PO #

INSTRUCTION 450 UNION ST

ITEM CODE	DESCRIPTION	UNIT	EXTENDED
173250	LIME #57 3/4" ST		
	ADD HAUL CHARGE		

GROSS	43700 LBS	21.85 TN	WEIGHMASTER	JWARREN		SUB TOTAL	
TARE	25540 LBS	12.77 TN	LOADS TODAY: 1	ARRIVE JOB		TAX	
NET	18160 LBS	9.08 TN	TONS TODAY: 9.08	LEAVE JOB		TOTAL	

CUSTOMER SIGNATURE

Customer and its designated carrier accept full responsibility for all claims arising out of the delivery and use of the materials described herein, including compliance with all laws and regulations (including carrier weight limitations), and any damages caused during the delivery, handling or use of the material. Customer hereby agrees to indemnify and defend New York Sand & Stone, LLC. from any such claims. Customer is solely responsible for determining the suitability of the materials for its intended purpose and accepts the materials "AS IS", without any representations or warranties, including fitness for a particular purpose.

NEW YORK SAND & STONE
THE CITY QUARRY

NEW YORK SAND & STONE, LLC
BROOKLYN NAVY YARD
63 FLUSHING AVE., 11205
TEL: 718/596-2897

25TH STREET TERMINAL
75 25TH ST., BROOKLYN, NY 1123
INWOOD TERMINAL
1 SHERIDAN BLVD., INWOOD, NY 110
PIER J
BROOKLYN NAVY YARD, PIER J, BROOKLYN, N

53021796

SHIPPING PLANT: 25TH STREET	TICKET	PLANT: 53	SCALE	DATE: 05/03/17	TIME: 08:13	ORDER #: 11025	
CUSTOMER CODE: 1405527	CUSTOMER NAME: BROOKSIDE ENVIRONMENTAL	SOURCE CODE		JOB#	JOB LOCATION		
PROJECT CODE: 1544164	PROJECT NAME: (NYSS) UNION STREET			HAULER: FOB			
DELV TYPE: PICKED UP	ZONE: 53008			TRUCK: 61428MG	TRUCK LICENSE: 61428MG		

DELIVERY ADDRESS: 450 UNION ST
DRIVER PRINTED NAME (NO INITIALS):
DRIVER SIGNATURE:
INSTRUCTION
PO #

ITEM CODE	DESCRIPTION	UNIT	EXTENDED
173250	LIME #57 3/4" ST		
	AGG HAUL CHARGE		

GROSS	46240 LBS	23.12 TN	WEIGHMASTER: JWARREN			SUB TOTAL	
TARE	29400 LBS	14.70 TN	LOADS TODAY: 1	ARRIVE JOB		TAX	
NET	16840 LBS	8.42 TN	TONS TODAY: 8.42	LEAVE JOB		TOTAL	

10982118

CUSTOMER SIGNATURE

Customer and its designated carrier accept full responsibility for all claims arising out of the delivery and use of the materials described here compliance with all laws and regulations (including carrier weight limitations), and any damages caused during the delivery, ha ndling or use of the hereby agrees to indemnify and defend New York Sand & Stone, LLC. from any such claims. Customer is solely responsible for dete rmining the sui materials for its intended purpose and accepts the materials "AS IS", without any representations or warranties, including fitn ess for a particular

CUSTOMER COPY

Bissett Nursery

A SiteOne™ Company

470 Deer Park Ave
Dix Hills, NY 11746
631.493.1600 Fax 631.493.1899
www.bissettnursery.com
info@bissettnursery.com

INVOICE

Invoice #	1024517
Invoice Date	5/03/17
Order #	975717-000

Rev# 1 Page # 1

Customer # 0028749

Sold To: **Alive Structures LLC**

130 Diamond St
Brooklyn, NY 11222-3065

Ship To / Job Site: 01 Alive Structures LLC

130 Diamond St
Brooklyn, NY 11222

Purchase Order #	Salesman#	Ship Date	Shipped Via	Terms
Gowanus	99	5/03/17		Cash/CC/Check

Notes:

Qty Ship	Qty B/O	U/M	Item#	Description	Unit Price	Disc	Extension
1		EA	62112	BIRCH RIVER DURA-HEAT 8-10'	140.000		140.00
1		EA	65657	BIRCH HERITAGE CLUMP 10-12'	175.000		175.00
20		EA	21603	HE TOP SOIL PREMIUM 1CF	4.500		90.00
1		EA	22937	ROOTS PHC PLANT SAV 4-7-4 10LB	28.750		28.75

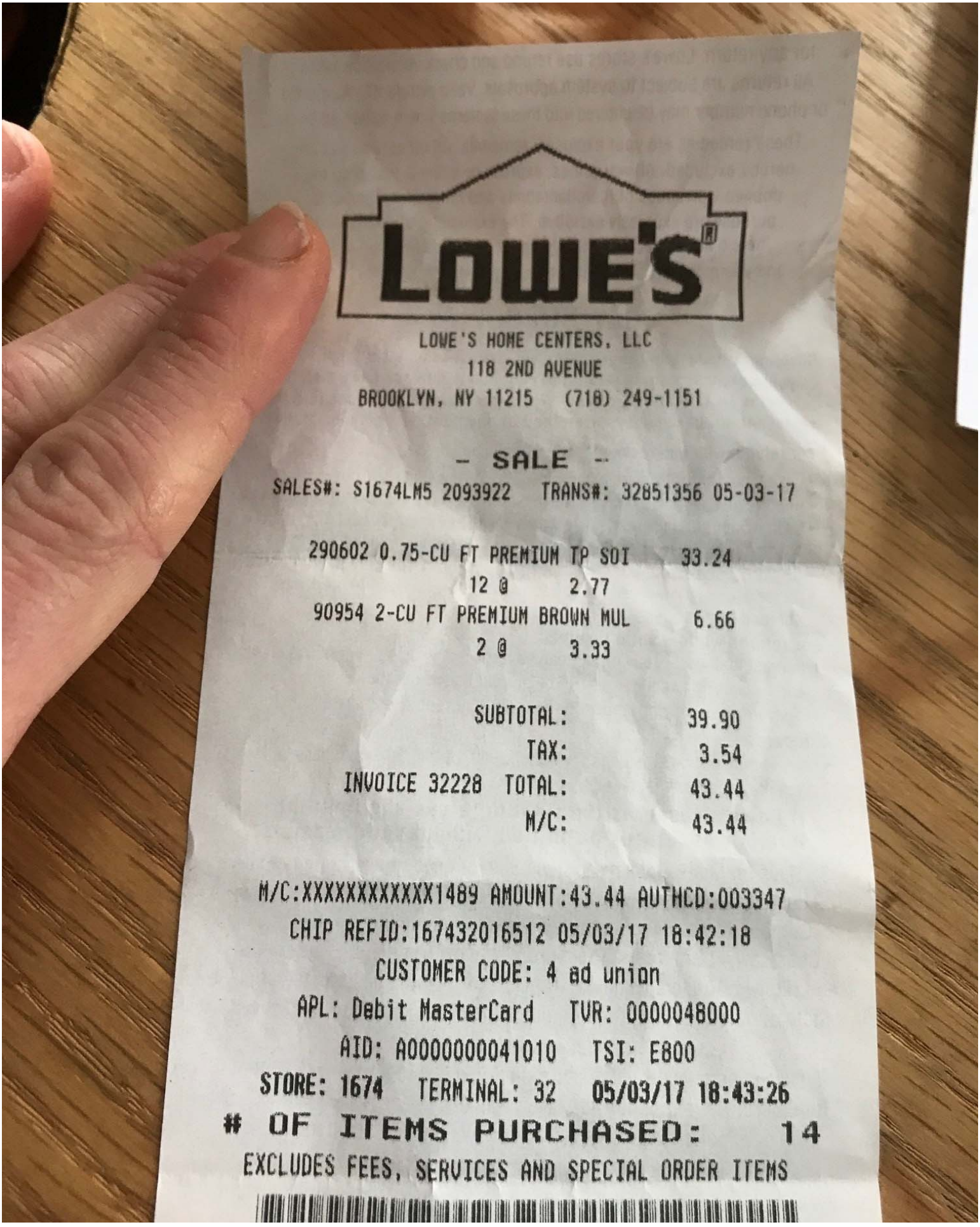
ment(s) MC 433.75 **********1489

Sales Total	433.75
Delivery / Misc	
Tax 8081	
Invoice Total	433.75
Total Paid	433.75

Our regularly stated terms are: 30 days NET. Past due accounts will be assessed a service charge of 1.5% per month or a rate ceed lawful limits. All claims for errors or unsatisfactory stock must be reported upon receipt and confirmed by written dum received by us within 5 days.
nt it becomes necessary for our firm to enforce payment, we shall be entitled to court costs, attorney's fees in the sum e unpaid balance and interest at the rate of 1.5% per month on all amounts due and payable.

TY OF MERCHANTABILITY" is waived by the purchaser. I agree to pay above amount according to card issuer agreement.

JAMIEM



LOWE'S

LOWE'S HOME CENTERS, LLC
118 2ND AVENUE
BROOKLYN, NY 11215 (718) 249-1151

- SALE -

SALES#: S1674LM5 2093922 TRANS#: 32851356 05-03-17

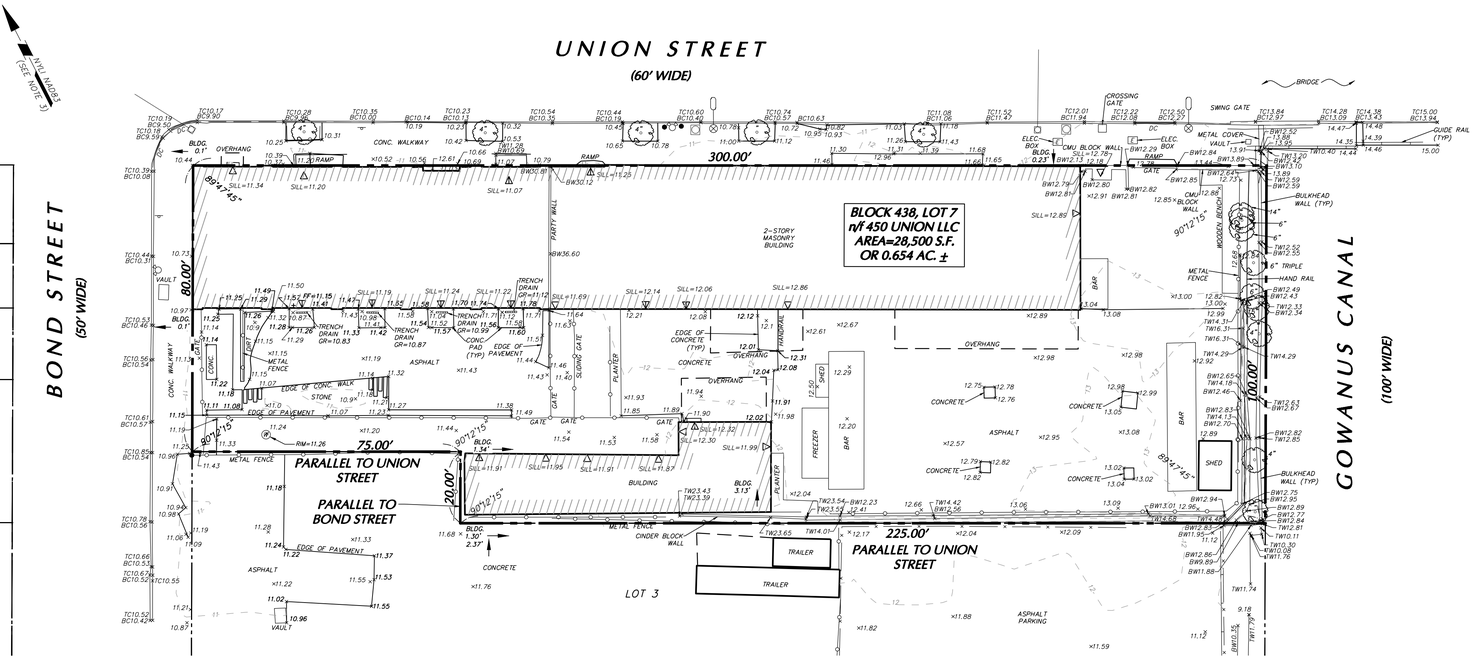
290602 0.75-CU FT PREMIUM TP SOI 33.24
12 @ 2.77
90954 2-CU FT PREMIUM BROWN MUL 6.66
2 @ 3.33

SUBTOTAL: 39.90
TAX: 3.54
INVOICE 32228 TOTAL: 43.44
M/C: 43.44

M/C:XXXXXXXXXXX1489 AMOUNT:43.44 AUTHCD:003347
CHIP REFID:167432016512 05/03/17 18:42:18
CUSTOMER CODE: 4 ad union
APL: Debit MasterCard TVR: 0000048000
AID: A0000000041010 TSI: E800
STORE: 1674 TERMINAL: 32 05/03/17 18:43:26
OF ITEMS PURCHASED: 14
EXCLUDES FEES, SERVICES AND SPECIAL ORDER ITEMS

APPENDIX H

SITE SURVEY





PROJECT LOCATION MAP

SCALE: N.T.S.

SOURCE: MICROSOFT CORPORATION

NOTES

1. THIS SURVEY IS BASED UPON EXISTING PHYSICAL CONDITIONS FOUND AT THE SUBJECT SITE, AND THE FOLLOWING REFERENCES:

   A. MAP TITLED "AS-BUILT SURVEY" BY BORO LAND SURVEYING, P.C., DATED AUGUST 5, 2015 AND LAST REVISED NOVEMBER 24, 2015.

   B. CURRENT NEW YORK CITY TAX MAP.

   C. NEW YORK CITY, BOROUGH OF BROOKLYN SECTIONAL MAPS #23 & #24.

   D. TITLE REPORT:
   BY: OLD REPUBLIC TITLE INSURANCE COMPANY
   DATED: MAY 26, 2014
   TITLE NO.: KIN-246501-L

2. THE SURVEYED PROPERTY IS SUBJECT BUT NOT LIMITED TO THE FOLLOWING FACTS AS REVEALED BY THE HEREON REFERENCED INFORMATION. THE INFORMATION SHOWN HEREON DOES NOT CONSTITUTE A TITLE SEARCH BY THE SURVEYOR. ALL INFORMATION THAT MAY AFFECT THE QUALITY OF TITLE TO BOTH THE SUBJECT AND ADJOINING PARCELS SHOULD BE VERIFIED BY AN ACCURATE AND CURRENT TITLE REPORT.

3. THE MERIDIAN OF THIS SURVEY IS REFERENCED TO THE NEW YORK LONG ISLAND COORDINATE SYSTEM, NYLI NAD 83 (2011) DERIVED USING LEICA GS-15 AND CS-15 GPS EQUIPMENT AND THE LEICA SMARTNET NETWORK.

4. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) DERIVED USING LEICA GS-15 AND CS-15 GPS EQUIPMENT AND THE LEICA SMARTNET NETWORK.

5. STREET NAMES AND R.O.W. WIDTHS AS PER MAPS REFERENCED IN NOTE 1C, BLOCK AND LOT NUMBERS AS PER MAP REFERENCED IN NOTE 1B.

6. PLANIMETRIC INFORMATION SHOWN HEREON HAS BEEN OBTAINED FROM GROUND SURVEYS BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING AND LANDSCAPE ARCHITECTURE, D.P.C. DURING FEBRUARY, APRIL AND MAY 2017.

7. OFFSETS (IF SHOWN) ARE FOR SURVEY REFERENCES ONLY AND ARE NOT TO BE USED IN CONSTRUCTION OF ANY TYPE.

8. WETLANDS, ENVIRONMENTAL AND/OR HAZARDOUS MATERIALS LOCATION, IF ANY, NOT COVERED UNDER THIS CONTRACT.

9. UNLESS SPECIFICALLY NOTED HEREON, STORM AND SANITARY SEWER INFORMATION (INCLUDING PIPE INVERT, PIPE MATERIAL, AND PIPE SIZE) WAS OBSERVED AND MEASURED AT FIELD LOCATED STRUCTURES (MANHOLES/CATCH BASINS, ETC.). CONDITIONS CAN VARY FROM THOSE ENCOUNTERED AT THE TIMES WHEN AND THE LOCATIONS WHERE DATA WAS OBTAINED. DESPITE MEETING THE REQUIRED STANDARD OF CARE THE SURVEYOR CANNOT AND DOES NOT WARRANT THAT PIPE MATERIAL AND/OR PIPE SIZE THROUGHOUT THE PIPE RUN ARE THE SAME AS THOSE OBSERVED AT EACH STRUCTURE, OR THAT THE PIPE RUN IS STRAIGHT BETWEEN THE LOCATED STRUCTURES.

   ADDITIONAL UTILITY (WATER, GAS, ELECTRIC ETC.) DATA MAY BE SHOWN FROM FIELD LOCATED SURFACE MARKINGS (BY OTHERS), EXISTING STRUCTURES, AND/OR FROM EXISTING DRAWINGS.

   UNLESS SPECIFICALLY NOTED HEREON THE SURVEYOR HAS NOT EXCAVATED TO PHYSICALLY LOCATE THE UNDERGROUND UTILITIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE SHOWN UNDERGROUND UTILITIES ARE EITHER IN SERVICE, ABANDONED OR SUITABLE FOR USE, NOR ARE IN THE EXACT LOCATION OR CONFIGURATION INDICATED HEREON.

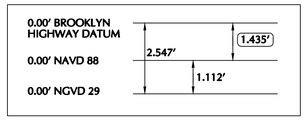
   PRIOR TO ANY DESIGN OR CONSTRUCTION THE PROPER UTILITY AGENCIES MUST BE CONTACTED FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATIONS

   UNLESS NOTED BELOW SUPPLEMENTAL DOCUMENTS WERE NOT USED TO COMPILE THE SUBSURFACE UTILITY INFORMATION SHOWN HEREON.

10. UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.

11. THIS PLAN NOT VALID UNLESS EMBOSSED OR BLUE INK STAMPED WITH THE SEAL OF THE PROFESSIONAL.

DATUM CONVERSION CHART



LEGEND (NOT SHOWN TO SCALE)

	HYDRANT		BOLLARD	D	STORM DRAIN
	STREET LIGHT		PEDESTRIAN WALK SIGNAL	S	SANITARY LINE
	AREA LIGHT		DOOR	COMB	COMBINED UTILITY LINE
	SIGNAL POLE		DOUBLE DOOR	UNK	UNKNOWN UTILITY LINE
	POLE		OVERHEAD DOOR	G	GAS LINE
	GUY WIRE		PARKING METER	W	WATER LINE
	ANCHOR POLE		METAL COVER	E	ELECTRIC LINE
	MANHOLE		ELECTRIC BOX	T	TELEPHONE LINE
	MANHOLE (DRAINAGE)		SOIL BORING	C	CABLE TV LINE
	MANHOLE (SANITARY SEWER)		MONITORING WELL	ST	STEAM LINE
	MANHOLE (ELECTRIC)		TEST PIT	FM	FORCE MAIN
	MANHOLE (WATER)		BENCHMARK	FO	FIBER OPTIC
	MANHOLE (NATURAL GAS)		ROOF DRAIN	(...)*	REFERENCED UTILITY LINE (TYPE AS NOTED) BASED ON RECORD MAPPING
	MANHOLE (TELEPHONE)		SPOT ELEVATION		OVERHEAD WIRE
	MANHOLE (FORCE MAIN)		CONCRETE CURB		GUIDE RAIL (TYPE AS NOTED)
	MANHOLE (STEAM)		CONCRETE		CHAIN LINK FENCE
	MANHOLE (UNKNOWN UTILITY)		DETECTABLE PAD		WOOD/STOCKADE FENCE
	WATER VALVE		DROP CURB		WIRE FENCE
	GAS VALVE		BROKEN WHITE STRIPE		IRON FENCE
	SHRUB		SINGLE YELLOW STRIPE		TREE LINE
	CATCH BASIN		DOUBLE YELLOW STRIPE		EASEMENT LINE
	CLEAN OUT		SINGLE WHITE STRIPE		PROPERTY LINE
	TREE		REINFORCED CONCRETE PIPE		RIGHT-OF-WAY LINE
	SIGN		DUCTILE IRON PIPE		CONTOUR LINE
			CORRUGATED METAL PIPE		
			NO VISIBLE PIPE		
			EDGE OF PAVEMENT		
			LANDSCAPED AREA		
		(S)	SURVEYED BEARING & DISTANCE		
		(D)	DEED BEARING & DISTANCE		

20 0 5 10 20
SCALE IN FEET

Date	Description	No.
REVISIONS		

"I hereby state that this plan is based on a field survey made by me or under my immediate supervision in accordance with NYSPLS Code of Practice for Land Surveys, and to the best of my professional knowledge, information and belief, and in my professional opinion, correctly represents the conditions found on the date of the field survey at the subject property".

SIGNATURE PAUL D. FISHER DATE SIGNED
PROFESSIONAL LAND SURVEYOR
NY Lic. No. 050784-1

LANGAN
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Langan CT, Inc.
Langan International LLC
Collectively known as Langan

Project
450 UNION STREET
BLOCK No. 438, LOT No. 7
BOROUGH OF BROOKLYN
CITY OF NEW YORK
KINGS COUNTY NEW YORK

Drawing Title
BOUNDARY & TOPOGRAPHIC SURVEY

Project No.	Drawing No.
170301202	VT-101
Date: 6/13/2017	
Scale: 1" = 20'	
Drawn By: KEC / Checked By: PDF	
	Sheet 1 of 1

LANGAN
PROJECT NO. 170301202

Filename: U:\data\2017\0301202\Survey Data - 170301202\CarlsonSheet Files\170301202 VT-0101.dwg Date: 6/13/2017 Time: 13:16 User: kconrad Style Table: Langan.stb Layout: VT-101

APPENDIX I

CAMP DATA

Friday, February 17, 2017						
Number of Instances Where Downwind Particulates Exceeds Upwind Particulate + 0.150 mg/m^3 =						0
Number of Comparable Data Points =						300
PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
8:04	0.033		8:04			
8:05	0.022		8:05			
8:06	0.022		8:06			
8:07	0.021		8:07			
8:08	0.021		8:08			
8:09	0.021		8:09			
8:10	0.022		8:10			
8:11	0.021		8:11			
8:12	0.021		8:12			
8:13	0.020		8:13			
8:14	0.020		8:14			
8:15	0.020		8:15			
8:16	0.019		8:16			
8:17	0.020		8:17			
8:18	0.020	0.022	8:18			
8:19	0.020	0.021	8:19			
8:20	0.021	0.021	8:20			
8:21	0.019	0.020	8:21			
8:22	0.023	0.021	8:22			
8:23	0.026	0.021	8:23			
8:24	0.030	0.021	8:24			
8:25	0.023	0.022	8:25			
8:26	0.023	0.022	8:26			
8:27	0.025	0.022	8:27			
8:28	0.021	0.022	8:28			
8:29	0.021	0.022	8:29			
8:30	0.023	0.022	8:30			
8:31	0.024	0.023	8:31			
8:32	0.026	0.023	8:32			
8:33	0.024	0.023	8:33			
8:34	0.028	0.024	8:34			
8:35	0.024	0.024	8:35			
8:36	0.030	0.025	8:36			
8:37	0.024	0.025	8:37			
8:38	0.025	0.025	8:38			
8:39	0.023	0.024	8:39			
8:40	0.020	0.024	8:40			
8:41	0.021	0.024	8:41			
8:42	0.022	0.024	8:42			
8:43	0.019	0.024	8:43			
8:44	0.018	0.023	8:44			
8:45	0.019	0.023	8:45			
8:46	0.019	0.023	8:46			
8:47	0.019	0.022	8:47			
8:48	0.017	0.022	8:48			
8:49	0.018	0.021	8:49			
8:50	0.018	0.021	8:50			
8:51	0.019	0.020	8:51			
8:52	0.020	0.020	8:52			
8:53	0.019	0.019	8:53			
8:54	0.022	0.019	8:54			
8:55	0.016	0.019	8:55			
8:56	0.015	0.019	8:56			

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
8:57	0.017	0.018	8:57			
8:58	0.020	0.018	8:58			
8:59	0.021	0.019	8:59			
9:00	0.023	0.019	9:00			
9:01	0.018	0.019	9:01			
9:02	0.016	0.019	9:02			
9:03	0.016	0.019	9:03			
9:04	0.014	0.018	9:04			
9:05	0.016	0.018	9:05			
9:06	0.016	0.018	9:06			
9:07	0.017	0.018	9:07	0.026	0.026	-
9:08	0.016	0.018	9:08	0.017	0.022	-
9:09	0.015	0.017	9:09	0.016	0.020	-
9:10	0.014	0.017	9:10	0.014	0.018	-
9:11	0.013	0.017	9:11	0.014	0.017	-
9:12	0.013	0.017	9:12	0.014	0.017	-
9:13	0.013	0.016	9:13	0.015	0.017	-
9:14	0.014	0.016	9:14	0.014	0.016	-
9:15	0.013	0.015	9:15	0.014	0.016	-
9:16	0.013	0.015	9:16	0.013	0.016	-
9:17	0.014	0.014	9:17	0.013	0.015	-
9:18	0.013	0.014	9:18	0.013	0.015	-
9:19	0.013	0.014	9:19	0.013	0.015	-
9:20	0.012	0.014	9:20	0.012	0.015	-
9:21	0.013	0.014	9:21	0.012	0.015	-
9:22	0.013	0.013	9:22	0.012	0.014	-
9:23	0.013	0.013	9:23	0.012	0.013	-
9:24	0.012	0.013	9:24	0.012	0.013	-
9:25	0.012	0.013	9:25	0.011	0.013	-
9:26	0.012	0.013	9:26	0.014	0.013	-
9:27	0.012	0.013	9:27	0.011	0.013	-
9:28	0.012	0.013	9:28	0.010	0.012	-
9:29	0.011	0.013	9:29	0.010	0.012	-
9:30	0.012	0.012	9:30	0.011	0.012	-
9:31	0.013	0.012	9:31	0.011	0.012	-
9:32	0.012	0.012	9:32	0.010	0.012	-
9:33	0.012	0.012	9:33	0.010	0.011	-
9:34	0.011	0.012	9:34	0.010	0.011	-
9:35	0.012	0.012	9:35	0.010	0.011	-
9:36	0.012	0.012	9:36	0.010	0.011	-
9:37	0.011	0.012	9:37	0.009	0.011	-
9:38	0.011	0.012	9:38	0.009	0.011	-
9:39	0.010	0.012	9:39	0.008	0.010	-
9:40	0.010	0.012	9:40	0.008	0.010	-
9:41	0.010	0.011	9:41	0.008	0.010	-
9:42	0.010	0.011	9:42	0.009	0.010	-
9:43	0.010	0.011	9:43	0.009	0.009	-
9:44	0.010	0.011	9:44	0.009	0.009	-
9:45	0.011	0.011	9:45	0.009	0.009	-
9:46	0.011	0.011	9:46	0.009	0.009	-
9:47	0.010	0.011	9:47	0.009	0.009	-
9:48	0.011	0.011	9:48	0.010	0.009	-
9:49	0.011	0.011	9:49	0.014	0.009	-
9:50	0.013	0.011	9:50	0.016	0.010	-
9:51	0.012	0.011	9:51	0.022	0.011	-
9:52	0.014	0.011	9:52	0.016	0.011	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
9:53	0.012	0.011	9:53	0.017	0.012	-
9:54	0.014	0.011	9:54	0.022	0.012	-
9:55	0.012	0.011	9:55	0.011	0.013	-
9:56	0.014	0.012	9:56	0.010	0.013	-
9:57	0.013	0.012	9:57	0.010	0.013	-
9:58	0.013	0.012	9:58	0.010	0.013	-
9:59	0.016	0.012	9:59	0.011	0.013	-
10:00	0.017	0.013	10:00	0.010	0.013	-
10:01	0.020	0.013	10:01	0.009	0.013	-
10:02	0.016	0.014	10:02	0.011	0.013	-
10:03	0.018	0.014	10:03	0.010	0.013	-
10:04	0.011	0.014	10:04	0.009	0.013	-
10:05	0.016	0.015	10:05	0.008	0.012	-
10:06	0.012	0.015	10:06	0.007	0.011	-
10:07	0.022	0.015	10:07	0.008	0.011	-
10:08	0.014	0.015	10:08	0.009	0.010	-
10:09	0.013	0.015	10:09	0.009	0.009	-
10:10	0.011	0.015	10:10	0.010	0.009	-
10:11	0.011	0.015	10:11	0.010	0.009	-
10:12	0.012	0.015	10:12	0.009	0.009	-
10:13	0.013	0.015	10:13	0.009	0.009	-
10:14	0.015	0.015	10:14	0.009	0.009	-
10:15	0.010	0.014	10:15	0.013	0.009	-
10:16	0.011	0.014	10:16	0.012	0.010	-
10:17	0.010	0.013	10:17	0.007	0.009	-
10:18	0.009	0.013	10:18	0.009	0.009	-
10:19	0.010	0.013	10:19	0.007	0.009	-
10:20	0.009	0.012	10:20	0.008	0.009	-
10:21	0.011	0.012	10:21	0.009	0.009	-
10:22	0.010	0.011	10:22	0.008	0.009	-
10:23	0.011	0.011	10:23	0.008	0.009	-
10:24	0.011	0.011	10:24	0.009	0.009	-
10:25	0.011	0.011	10:25	0.009	0.009	-
10:26	0.012	0.011	10:26	0.008	0.009	-
10:27	0.009	0.011	10:27	0.010	0.009	-
10:28	0.011	0.011	10:28	0.009	0.009	-
10:29	0.011	0.010	10:29	0.009	0.009	-
10:30	0.010	0.010	10:30	0.011	0.009	-
10:31	0.011	0.010	10:31	0.013	0.009	-
10:32	0.014	0.011	10:32	0.013	0.009	-
10:33	0.013	0.011	10:33	0.013	0.010	-
10:34	0.012	0.011	10:34	0.009	0.010	-
10:35	0.010	0.011	10:35	0.009	0.010	-
10:36	0.009	0.011	10:36	0.008	0.010	-
10:37	0.010	0.011	10:37	0.008	0.010	-
10:38	0.009	0.011	10:38	0.008	0.010	-
10:39	0.012	0.011	10:39	0.008	0.010	-
10:40	0.009	0.011	10:40	0.009	0.010	-
10:41	0.009	0.011	10:41	0.009	0.010	-
10:42	0.011	0.011	10:42	0.011	0.010	-
10:43	0.010	0.011	10:43	0.010	0.010	-
10:44	0.011	0.011	10:44	0.012	0.010	-
10:45	0.014	0.011	10:45	0.008	0.010	-
10:46	0.011	0.011	10:46	0.006	0.009	-
10:47	0.009	0.011	10:47	0.006	0.009	-
10:48	0.011	0.010	10:48	0.007	0.009	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
10:49	0.012	0.010	10:49	0.007	0.008	-
10:50	0.010	0.010	10:50	0.006	0.008	-
10:51	0.010	0.011	10:51	0.007	0.008	-
10:52	0.011	0.011	10:52	0.009	0.008	-
10:53	0.010	0.011	10:53	0.018	0.009	-
10:54	0.010	0.011	10:54	0.017	0.009	-
10:55	0.010	0.011	10:55	0.020	0.010	-
10:56	0.010	0.011	10:56	0.010	0.010	-
10:57	0.013	0.011	10:57	0.015	0.011	-
10:58	0.013	0.011	10:58	0.012	0.011	-
10:59	0.013	0.011	10:59	0.018	0.011	-
11:00	0.011	0.011	11:00	0.012	0.011	-
11:01	0.009	0.011	11:01	0.011	0.012	-
11:02	0.011	0.011	11:02	0.007	0.012	-
11:03	0.010	0.011	11:03	0.015	0.012	-
11:04	0.010	0.011	11:04	0.015	0.013	-
11:05	0.015	0.011	11:05	0.009	0.013	-
11:06	0.011	0.011	11:06	0.013	0.013	-
11:07	0.010	0.011	11:07	0.012	0.014	-
11:08	0.011	0.011	11:08	0.015	0.013	-
11:09	0.012	0.011	11:09	0.010	0.013	-
11:10	0.010	0.011	11:10	0.008	0.012	-
11:11	0.011	0.011	11:11	0.007	0.012	-
11:12	0.010	0.011	11:12	0.008	0.011	-
11:13	0.010	0.011	11:13	0.012	0.011	-
11:14	0.013	0.011	11:14	0.011	0.011	-
11:15	0.014	0.011	11:15	0.008	0.011	-
11:16	0.010	0.011	11:16	0.007	0.010	-
11:17	0.011	0.011	11:17	0.007	0.010	-
11:18	0.009	0.011	11:18	0.005	0.010	-
11:19	0.009	0.011	11:19	0.006	0.009	-
11:20	0.009	0.011	11:20	0.006	0.009	-
11:21	0.010	0.011	11:21	0.006	0.009	-
11:22	0.010	0.011	11:22	0.006	0.008	-
11:23	0.010	0.011	11:23	0.007	0.008	-
11:24	0.009	0.010	11:24	0.006	0.007	-
11:25	0.012	0.010	11:25	0.006	0.007	-
11:26	0.013	0.011	11:26	0.008	0.007	-
11:27	0.010	0.011	11:27	0.007	0.007	-
11:28	0.011	0.011	11:28	0.012	0.007	-
11:29	0.010	0.010	11:29	0.010	0.007	-
11:30	0.010	0.010	11:30	0.014	0.008	-
11:31	0.011	0.010	11:31	0.007	0.008	-
11:32	0.010	0.010	11:32	0.013	0.008	-
11:33	0.010	0.010	11:33	0.021	0.009	-
11:34	0.011	0.010	11:34	0.016	0.010	-
11:35	0.011	0.011	11:35	0.009	0.010	-
11:36	0.011	0.011	11:36	0.008	0.010	-
11:37	0.009	0.011	11:37	0.013	0.010	-
11:38	0.009	0.010	11:38	0.011	0.011	-
11:39	0.009	0.010	11:39	0.006	0.011	-
11:40	0.008	0.010	11:40	0.011	0.011	-
11:41	0.010	0.010	11:41	0.007	0.011	-
11:42	0.010	0.010	11:42	0.012	0.011	-
11:43	0.011	0.010	11:43	0.015	0.012	-
11:44	0.010	0.010	11:44	0.013	0.012	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
11:45	0.012	0.010	11:45	0.012	0.012	-
11:46	0.010	0.010	11:46	0.014	0.012	-
11:47	0.010	0.010	11:47	0.020	0.013	-
11:48	0.010	0.010	11:48	0.010	0.012	-
11:49	0.009	0.010	11:49	0.008	0.011	-
11:50	0.011	0.010	11:50	0.008	0.011	-
11:51	0.010	0.010	11:51	0.010	0.011	-
11:52	0.009	0.010	11:52	0.011	0.011	-
11:53	0.009	0.010	11:53	0.008	0.011	-
11:54	0.010	0.010	11:54	0.005	0.011	-
11:55	0.010	0.010	11:55	0.011	0.011	-
11:56	0.011	0.010	11:56	0.013	0.011	-
11:57	0.010	0.010	11:57	0.008	0.011	-
11:58	0.010	0.010	11:58	0.007	0.011	-
11:59	0.010	0.010	11:59	0.009	0.010	-
12:00	0.010	0.010	12:00	0.010	0.010	-
12:01	0.009	0.010	12:01	0.005	0.010	-
12:02	0.009	0.010	12:02	0.004	0.008	-
12:03	0.009	0.010	12:03	0.005	0.008	-
12:04	0.009	0.010	12:04	0.005	0.008	-
12:05	0.009	0.010	12:05	0.005	0.008	-
12:06	0.009	0.010	12:06	0.005	0.007	-
12:07	0.009	0.010	12:07	0.004	0.007	-
12:08	0.009	0.010	12:08	0.006	0.007	-
12:09	0.009	0.009	12:09	0.009	0.007	-
12:10	0.009	0.009	12:10	0.007	0.007	-
12:11	0.008	0.009	12:11	0.023	0.007	-
12:12	0.009	0.009	12:12	0.015	0.008	-
12:13	0.010	0.009	12:13	0.012	0.008	-
12:14	0.010	0.009	12:14	0.010	0.008	-
12:15	0.009	0.009	12:15	0.011	0.008	-
12:16	0.009	0.009	12:16	0.006	0.008	-
12:17	0.009	0.009	12:17	0.014	0.009	-
12:18	0.008	0.009	12:18	0.009	0.009	-
12:19	0.009	0.009	12:19	0.026	0.011	-
12:20	0.008	0.009	12:20	0.030	0.012	-
12:21	0.010	0.009	12:21	0.018	0.013	-
12:22	0.008	0.009	12:22	0.014	0.014	-
12:23	0.008	0.009	12:23	0.006	0.014	-
12:24	0.009	0.009	12:24	0.012	0.014	-
12:25	0.009	0.009	12:25	0.013	0.015	-
12:26	0.010	0.009	12:26	0.005	0.013	-
12:27	0.009	0.009	12:27	0.005	0.013	-
12:28	0.008	0.009	12:28	0.004	0.012	-
12:29	0.008	0.009	12:29	0.004	0.012	-
12:30	0.007	0.009	12:30	0.003	0.011	-
12:31	0.007	0.008	12:31	0.003	0.011	-
12:32	0.007	0.008	12:32	0.004	0.010	-
12:33	0.007	0.008	12:33	0.004	0.010	-
12:34	0.007	0.008	12:34	0.004	0.009	-
12:35	0.008	0.008	12:35	0.004	0.007	-
12:36	0.007	0.008	12:36	0.013	0.007	-
12:37	0.007	0.008	12:37	0.011	0.006	-
12:38	0.008	0.008	12:38	0.019	0.007	-
12:39	0.008	0.008	12:39	0.010	0.007	-
12:40	0.010	0.008	12:40	0.016	0.007	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
12:41	0.009	0.008	12:41	0.007	0.007	-
12:42	0.008	0.008	12:42	0.011	0.008	-
12:43	0.009	0.008	12:43	0.035	0.010	-
12:44	0.008	0.008	12:44	0.026	0.011	-
12:45	0.009	0.008	12:45	0.013	0.012	-
12:46	0.009	0.008	12:46	0.005	0.012	-
12:47	0.010	0.008	12:47	0.004	0.012	-
12:48	0.010	0.008	12:48	0.004	0.012	-
12:49	0.008	0.009	12:49	0.003	0.012	-
12:50	0.008	0.009	12:50	0.002	0.012	-
12:51	0.009	0.009	12:51	0.003	0.011	-
12:52	0.010	0.009	12:52	0.004	0.011	-
12:53	0.010	0.009	12:53	0.005	0.010	-
12:54	0.013	0.009	12:54	0.005	0.010	-
12:55	0.010	0.009	12:55	0.003	0.009	-
12:56	0.008	0.009	12:56	0.003	0.008	-
12:57	0.008	0.009	12:57	0.003	0.008	-
12:58	0.009	0.009	12:58	0.002	0.006	-
12:59	0.009	0.009	12:59	0.003	0.004	-
13:00	0.009	0.009	13:00	0.003	0.003	-
13:01	0.007	0.009	13:01	0.008	0.004	-
13:02	0.009	0.009	13:02	0.016	0.004	-
13:03	0.009	0.009	13:03	0.016	0.005	-
13:04	0.009	0.009	13:04	0.043	0.008	-
13:05	0.010	0.009	13:05	0.029	0.010	-
13:06	0.009	0.009	13:06	0.024	0.011	-
13:07	0.008	0.009	13:07	0.043	0.014	-
13:08	0.011	0.009	13:08	0.021	0.015	-
13:09	0.017	0.009	13:09	0.007	0.015	-
13:10	0.009	0.009	13:10	0.012	0.016	-
13:11	0.008	0.009	13:11	0.009	0.016	-
13:12	0.008	0.009	13:12	0.012	0.017	-
13:13	0.007	0.009	13:13	0.003	0.017	-
13:14	0.007	0.009	13:14	0.001	0.016	-
13:15	0.006	0.009	13:15	0.002	0.016	-
13:16	0.006	0.009	13:16	0.002	0.016	-
13:17	0.006	0.009	13:17	0.002	0.015	-
13:18	0.008	0.009	13:18	0.007	0.014	-
13:19	0.007	0.008	13:19	0.005	0.012	-
13:20	0.008	0.008	13:20	0.004	0.010	-
13:21	0.007	0.008	13:21	0.002	0.009	-
13:22	0.009	0.008	13:22	0.014	0.007	-
13:23	0.007	0.008	13:23	0.009	0.006	-
13:24	0.008	0.007	13:24	0.051	0.009	-
13:25	0.009	0.007	13:25	0.054	0.012	-
13:26	0.014	0.008	13:26	0.007	0.012	-
13:27	0.008	0.008	13:27	0.014	0.012	-
13:28	0.008	0.008	13:28	0.029	0.014	-
13:29	0.009	0.008	13:29	0.034	0.016	-
13:30	0.008	0.008	13:30	0.026	0.017	-
13:31	0.007	0.008	13:31	0.032	0.019	-
13:32	0.008	0.008	13:32	0.032	0.021	-
13:33	0.007	0.008	13:33	0.019	0.022	-
13:34	0.007	0.008	13:34	0.012	0.023	-
13:35	0.008	0.008	13:35	0.004	0.023	-
13:36	0.008	0.008	13:36	0.010	0.023	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
13:37	0.008	0.008	13:37	0.013	0.023	-
13:38	0.007	0.008	13:38	0.015	0.023	-
13:39	0.007	0.008	13:39	0.003	0.020	-
13:40	0.007	0.008	13:40	0.002	0.017	-
13:41	0.006	0.008	13:41	0.015	0.017	-
13:42	0.007	0.007	13:42	0.005	0.017	-
13:43	0.007	0.007	13:43	0.002	0.015	-
13:44	0.007	0.007	13:44	0.004	0.013	-
13:45	0.008	0.007	13:45	0.005	0.012	-
13:46	0.007	0.007	13:46	0.002	0.010	-
13:47	0.007	0.007	13:47	0.001	0.007	-
13:48	0.005	0.007	13:48	0.001	0.006	-
13:49	0.005	0.007	13:49	0.002	0.006	-
13:50	0.007	0.007	13:50	0.003	0.006	-
13:51	0.007	0.007	13:51	0.003	0.005	-
13:52	0.006	0.007	13:52	0.005	0.005	-
13:53	0.007	0.007	13:53	0.003	0.004	-
13:54	0.007	0.007	13:54	0.026	0.005	-
13:55	0.006	0.007	13:55	0.013	0.006	-
13:56	0.008	0.007	13:56	0.009	0.006	-
13:57	0.007	0.007	13:57	0.028	0.007	-
13:58	0.008	0.007	13:58	0.009	0.008	-
13:59	0.007	0.007	13:59	0.021	0.009	-
14:00	0.007	0.007	14:00	0.002	0.009	-
14:01	0.008	0.007	14:01	0.014	0.009	-
14:02	0.008	0.007	14:02	0.005	0.010	-
14:03	0.008	0.007	14:03	0.004	0.010	-
14:04	0.007	0.007	14:04	0.002	0.010	-
14:05	0.007	0.007	14:05	0.001	0.010	-
14:06	0.009	0.007	14:06	0.001	0.010	-
14:07			14:07	0.001	0.009	
14:08			14:08	0.003	0.009	

Friday, February 17, 2017						
Number of Instances Where Downwind VOCs Exceeds Upwind VOCs + 5 ppm =						0
Number of Comparable Data Points =						347
PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
8:10			8:10	0.0		
8:11			8:11	0.0		
8:12	0.0		8:12	0.0		
8:13	0.0		8:13	0.0		
8:14	0.0		8:14	0.0		
8:15	0.0		8:15	0.0		
8:16	0.0		8:16	0.0		
8:17	0.0		8:17	0.0		
8:18	0.0		8:18	0.0		
8:19	0.0		8:19	0.0		
8:20	0.0		8:20	0.0		
8:21	0.0		8:21	0.0		
8:22	0.0		8:22	0.0		
8:23	0.0		8:23	0.0		
8:24	0.0		8:24	0.0	0.0	
8:25	0.0		8:25	0.0	0.0	
8:26	0.0	0.0	8:26	0.0	0.0	-
8:27	0.0	0.0	8:27	0.0	0.0	-
8:28	0.0	0.0	8:28	0.0	0.0	-
8:29	0.0	0.0	8:29	0.0	0.0	-
8:30	0.0	0.0	8:30	0.0	0.0	-
8:31	0.0	0.0	8:31	0.0	0.0	-
8:32	0.0	0.0	8:32	0.0	0.0	-
8:33	0.0	0.0	8:33	0.0	0.0	-
8:34	0.0	0.0	8:34	0.0	0.0	-
8:35	0.0	0.0	8:35	0.0	0.0	-
8:36	0.0	0.0	8:36	0.0	0.0	-
8:37	0.0	0.0	8:37	0.0	0.0	-
8:38	0.0	0.0	8:38	0.0	0.0	-
8:39	0.0	0.0	8:39	0.0	0.0	-
8:40	0.0	0.0	8:40	0.0	0.0	-
8:41	0.0	0.0	8:41	0.1	0.0	-
8:42	0.0	0.0	8:42	0.0	0.0	-
8:43	0.0	0.0	8:43	0.0	0.0	-
8:44	0.0	0.0	8:44	0.0	0.0	-
8:45	0.0	0.0	8:45	0.0	0.0	-
8:46	0.0	0.0	8:46	0.0	0.0	-
8:47	0.0	0.0	8:47	0.0	0.0	-
8:48	0.0	0.0	8:48	0.0	0.0	-
8:49	0.0	0.0	8:49	0.0	0.0	-
8:50	0.0	0.0	8:50	0.0	0.0	-
8:51	0.0	0.0	8:51	0.0	0.0	-
8:52	0.0	0.0	8:52	0.0	0.0	-
8:53	0.0	0.0	8:53	0.0	0.0	-
8:54	0.0	0.0	8:54	0.0	0.0	-
8:55	0.0	0.0	8:55	0.0	0.0	-
8:56	0.0	0.0	8:56	0.0	0.0	-
8:57	0.0	0.0	8:57	0.0	0.0	-
8:58	0.0	0.0	8:58	0.0	0.0	-
8:59	0.0	0.0	8:59	0.0	0.0	-
9:00	0.0	0.0	9:00	0.1	0.0	-
9:01	0.0	0.0	9:01	0.0	0.0	-
9:02	0.0	0.0	9:02	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
9:03	0.0	0.0	9:03	0.0	0.0	-
9:04	0.0	0.0	9:04	0.0	0.0	-
9:05	0.0	0.0	9:05	0.0	0.0	-
9:06	0.0	0.0	9:06	0.1	0.0	-
9:07	0.0	0.0	9:07	0.0	0.0	-
9:08	0.0	0.0	9:08	0.0	0.0	-
9:09	0.0	0.0	9:09	0.0	0.0	-
9:10	0.0	0.0	9:10	0.0	0.0	-
9:11	0.0	0.0	9:11	0.0	0.0	-
9:12	0.0	0.0	9:12	0.0	0.0	-
9:13	0.0	0.0	9:13	0.0	0.0	-
9:14	0.0	0.0	9:14	0.0	0.0	-
9:15	0.0	0.0	9:15	0.0	0.0	-
9:16	0.0	0.0	9:16	0.0	0.0	-
9:17	0.0	0.0	9:17	0.0	0.0	-
9:18	0.0	0.0	9:18	0.0	0.0	-
9:19	0.0	0.0	9:19	0.0	0.0	-
9:20	0.0	0.0	9:20	0.0	0.0	-
9:21	0.0	0.0	9:21	0.0	0.0	-
9:22	0.0	0.0	9:22	0.0	0.0	-
9:23	0.0	0.0	9:23	0.0	0.0	-
9:24	0.0	0.0	9:24	0.0	0.0	-
9:25	0.0	0.0	9:25	0.0	0.0	-
9:26	0.0	0.0	9:26	0.0	0.0	-
9:27	0.0	0.0	9:27	0.0	0.0	-
9:28	0.0	0.0	9:28	0.0	0.0	-
9:29	0.0	0.0	9:29	0.0	0.0	-
9:30	0.0	0.0	9:30	0.0	0.0	-
9:31	0.0	0.0	9:31	0.0	0.0	-
9:32	0.0	0.0	9:32	0.0	0.0	-
9:33	0.0	0.0	9:33	0.0	0.0	-
9:34	0.0	0.0	9:34	0.0	0.0	-
9:35	0.0	0.0	9:35	0.0	0.0	-
9:36	0.0	0.0	9:36	0.0	0.0	-
9:37	0.0	0.0	9:37	0.0	0.0	-
9:38	0.0	0.0	9:38	0.0	0.0	-
9:39	0.0	0.0	9:39	0.0	0.0	-
9:40	0.0	0.0	9:40	0.0	0.0	-
9:41	0.0	0.0	9:41	0.0	0.0	-
9:42	0.0	0.0	9:42	0.0	0.0	-
9:43	0.0	0.0	9:43	0.0	0.0	-
9:44	0.0	0.0	9:44	0.0	0.0	-
9:45	0.0	0.0	9:45	0.0	0.0	-
9:46	0.0	0.0	9:46	0.0	0.0	-
9:47	0.0	0.0	9:47	0.0	0.0	-
9:48	0.0	0.0	9:48	0.0	0.0	-
9:49	0.0	0.0	9:49	0.0	0.0	-
9:50	0.0	0.0	9:50	0.0	0.0	-
9:51	0.0	0.0	9:51	0.0	0.0	-
9:52	0.0	0.0	9:52	0.0	0.0	-
9:53	0.0	0.0	9:53	0.0	0.0	-
9:54	0.0	0.0	9:54	0.0	0.0	-
9:55	0.0	0.0	9:55	0.0	0.0	-
9:56	0.0	0.0	9:56	0.0	0.0	-
9:57	0.0	0.0	9:57	0.1	0.0	-
9:58	0.0	0.0	9:58	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
9:59	0.0	0.0	9:59	0.0	0.0	-
10:00	0.0	0.0	10:00	0.1	0.0	-
10:01	0.0	0.0	10:01	0.1	0.0	-
10:02	0.0	0.0	10:02	0.1	0.0	-
10:03	0.0	0.0	10:03	0.1	0.0	-
10:04	0.0	0.0	10:04	0.1	0.0	-
10:05	0.0	0.0	10:05	0.1	0.1	-
10:06	0.0	0.0	10:06	0.1	0.1	-
10:07	0.0	0.0	10:07	0.1	0.1	-
10:08	0.0	0.0	10:08	0.1	0.1	-
10:09	0.0	0.0	10:09	0.1	0.1	-
10:10	0.0	0.0	10:10	0.0	0.1	-
10:11	0.0	0.0	10:11	0.1	0.1	-
10:12	0.0	0.0	10:12	0.1	0.1	-
10:13	0.0	0.0	10:13	0.1	0.1	-
10:14	0.0	0.0	10:14	0.1	0.1	-
10:15	0.0	0.0	10:15	0.1	0.1	-
10:16	0.0	0.0	10:16	0.0	0.1	-
10:17	0.0	0.0	10:17	0.0	0.1	-
10:18	0.0	0.0	10:18	0.1	0.1	-
10:19	0.0	0.0	10:19	0.1	0.1	-
10:20	0.0	0.0	10:20	0.1	0.1	-
10:21	0.0	0.0	10:21	0.1	0.1	-
10:22	0.0	0.0	10:22	0.1	0.1	-
10:23	0.0	0.0	10:23	0.1	0.1	-
10:24	0.0	0.0	10:24	0.0	0.1	-
10:25	0.0	0.0	10:25	0.0	0.1	-
10:26	0.0	0.0	10:26	0.0	0.1	-
10:27	0.0	0.0	10:27	0.0	0.1	-
10:28	0.0	0.0	10:28	0.0	0.1	-
10:29	0.0	0.0	10:29	0.1	0.1	-
10:30	0.0	0.0	10:30	0.1	0.1	-
10:31	0.0	0.0	10:31	0.0	0.1	-
10:32	0.1	0.0	10:32	0.1	0.1	-
10:33	0.1	0.0	10:33	0.0	0.1	-
10:34	0.1	0.0	10:34	0.0	0.1	-
10:35	0.1	0.0	10:35	0.0	0.0	-
10:36	0.1	0.0	10:36	0.0	0.0	-
10:37	0.1	0.1	10:37	0.0	0.0	-
10:38	0.1	0.1	10:38	0.1	0.0	-
10:39	0.1	0.1	10:39	0.1	0.1	-
10:40	0.1	0.1	10:40	0.1	0.1	-
10:41	0.1	0.1	10:41	0.1	0.1	-
10:42	0.1	0.1	10:42	0.1	0.1	-
10:43	0.1	0.1	10:43	0.0	0.1	-
10:44	0.1	0.1	10:44	0.0	0.1	-
10:45	0.1	0.1	10:45	0.1	0.1	-
10:46	0.1	0.1	10:46	0.0	0.1	-
10:47	0.1	0.1	10:47	0.0	0.1	-
10:48	0.1	0.1	10:48	0.1	0.1	-
10:49	0.1	0.1	10:49	0.0	0.1	-
10:50	0.1	0.1	10:50	0.0	0.1	-
10:51	0.1	0.1	10:51	0.1	0.1	-
10:52	0.1	0.1	10:52	0.1	0.1	-
10:53	0.1	0.1	10:53	0.0	0.1	-
10:54	0.1	0.1	10:54	0.1	0.1	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
10:55	0.1	0.1	10:55	0.1	0.0	-
10:56	0.1	0.1	10:56	0.0	0.0	-
10:57	0.1	0.1	10:57	0.0	0.0	-
10:58	0.1	0.1	10:58	0.1	0.1	-
10:59	0.1	0.1	10:59	0.1	0.1	-
11:00	0.1	0.1	11:00	0.1	0.1	-
11:01	0.1	0.1	11:01	0.0	0.1	-
11:02	0.2	0.1	11:02	0.1	0.1	-
11:03	0.2	0.1	11:03	0.1	0.1	-
11:04	0.2	0.1	11:04	0.1	0.1	-
11:05	0.2	0.1	11:05	0.1	0.1	-
11:06	0.2	0.1	11:06	0.1	0.1	-
11:07	0.2	0.1	11:07	0.0	0.1	-
11:08	0.2	0.1	11:08	0.1	0.1	-
11:09	0.2	0.2	11:09	0.1	0.1	-
11:10	0.2	0.2	11:10	0.1	0.1	-
11:11	0.2	0.2	11:11	0.1	0.1	-
11:12	0.2	0.2	11:12	0.1	0.1	-
11:13	0.2	0.2	11:13	0.1	0.1	-
11:14	0.2	0.2	11:14	0.1	0.1	-
11:15	0.2	0.2	11:15	0.1	0.1	-
11:16	0.2	0.2	11:16	0.1	0.1	-
11:17	0.2	0.2	11:17	0.1	0.1	-
11:18	0.2	0.2	11:18	0.1	0.1	-
11:19	0.2	0.2	11:19	0.1	0.1	-
11:20	0.2	0.2	11:20	0.1	0.1	-
11:21	0.3	0.2	11:21	0.1	0.1	-
11:22	0.3	0.2	11:22	0.1	0.1	-
11:23	0.3	0.2	11:23	0.1	0.1	-
11:24	0.3	0.2	11:24	0.1	0.1	-
11:25	0.3	0.2	11:25	0.1	0.1	-
11:26	0.3	0.2	11:26	0.1	0.1	-
11:27	0.3	0.2	11:27	0.1	0.1	-
11:28	0.3	0.2	11:28	0.1	0.1	-
11:29	0.3	0.3	11:29	0.1	0.1	-
11:30	0.3	0.3	11:30	0.1	0.1	-
11:31	0.3	0.3	11:31	0.1	0.1	-
11:32	0.3	0.3	11:32	0.1	0.1	-
11:33	0.3	0.3	11:33	0.1	0.1	-
11:34	0.3	0.3	11:34	0.1	0.1	-
11:35	0.3	0.3	11:35	0.1	0.1	-
11:36	0.3	0.3	11:36	0.1	0.1	-
11:37	0.4	0.3	11:37	0.1	0.1	-
11:38	0.4	0.3	11:38	0.1	0.1	-
11:39	0.4	0.3	11:39	0.1	0.1	-
11:40	0.3	0.3	11:40	0.1	0.1	-
11:41	0.4	0.3	11:41	0.1	0.1	-
11:42	0.4	0.3	11:42	0.1	0.1	-
11:43	0.3	0.3	11:43	0.1	0.1	-
11:44	0.4	0.3	11:44	0.1	0.1	-
11:45	0.4	0.3	11:45	0.1	0.1	-
11:46	0.4	0.3	11:46	0.1	0.1	-
11:47	0.4	0.3	11:47	0.1	0.1	-
11:48	0.4	0.4	11:48	0.1	0.1	-
11:49	0.4	0.4	11:49	0.1	0.1	-
11:50	0.4	0.4	11:50	0.1	0.1	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
11:51	0.4	0.4	11:51	0.1	0.1	-
11:52	0.4	0.4	11:52	0.1	0.1	-
11:53	0.4	0.4	11:53	0.1	0.1	-
11:54	0.4	0.4	11:54	0.1	0.1	-
11:55	0.4	0.4	11:55	0.1	0.1	-
11:56	0.4	0.4	11:56	0.1	0.1	-
11:57	0.4	0.4	11:57	0.1	0.1	-
11:58	0.4	0.4	11:58	0.1	0.1	-
11:59	0.4	0.4	11:59	0.1	0.1	-
12:00	0.4	0.4	12:00	0.1	0.1	-
12:01	0.4	0.4	12:01	0.1	0.1	-
12:02	0.4	0.4	12:02	0.1	0.1	-
12:03	0.4	0.4	12:03	0.1	0.1	-
12:04	0.3	0.4	12:04	0.1	0.1	-
12:05	0.3	0.4	12:05	0.1	0.1	-
12:06	0.3	0.4	12:06	0.1	0.1	-
12:07	0.3	0.4	12:07	0.1	0.1	-
12:08	0.4	0.4	12:08	0.1	0.1	-
12:09	0.4	0.4	12:09	0.1	0.1	-
12:10	0.4	0.4	12:10	0.1	0.1	-
12:11	0.4	0.4	12:11	0.1	0.1	-
12:12	0.4	0.4	12:12	0.1	0.1	-
12:13	0.4	0.4	12:13	0.1	0.1	-
12:14	0.4	0.4	12:14	0.1	0.1	-
12:15	0.4	0.4	12:15	0.1	0.1	-
12:16	0.4	0.4	12:16	0.1	0.1	-
12:17	0.4	0.4	12:17	0.1	0.1	-
12:18	0.4	0.4	12:18	0.1	0.1	-
12:19	0.4	0.4	12:19	0.1	0.1	-
12:20	0.4	0.4	12:20	0.1	0.1	-
12:21	0.4	0.4	12:21	0.1	0.1	-
12:22	0.4	0.4	12:22	0.1	0.1	-
12:23	0.4	0.4	12:23	0.1	0.1	-
12:24	0.5	0.4	12:24	0.1	0.1	-
12:25	0.5	0.4	12:25	0.1	0.1	-
12:26	0.4	0.4	12:26	0.1	0.1	-
12:27	0.4	0.4	12:27	0.1	0.1	-
12:28	0.4	0.4	12:28	0.1	0.1	-
12:29	0.4	0.4	12:29	0.1	0.1	-
12:30	0.4	0.4	12:30	0.1	0.1	-
12:31	0.4	0.4	12:31	0.1	0.1	-
12:32	0.4	0.4	12:32	0.1	0.1	-
12:33	0.4	0.4	12:33	0.1	0.1	-
12:34	0.4	0.4	12:34	0.1	0.1	-
12:35	0.4	0.4	12:35	0.1	0.1	-
12:36	0.4	0.4	12:36	0.1	0.1	-
12:37	0.4	0.4	12:37	0.1	0.1	-
12:38	0.4	0.4	12:38	0.1	0.1	-
12:39	0.4	0.4	12:39	0.1	0.1	-
12:40	0.4	0.4	12:40	0.1	0.1	-
12:41	0.4	0.4	12:41	0.1	0.1	-
12:42	0.4	0.4	12:42	0.1	0.1	-
12:43	0.5	0.4	12:43	0.1	0.1	-
12:44	0.4	0.4	12:44	0.1	0.1	-
12:45	0.4	0.4	12:45	0.1	0.1	-
12:46	0.4	0.4	12:46	0.1	0.1	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
12:47	0.4	0.4	12:47	0.1	0.1	-
12:48	0.4	0.4	12:48	0.1	0.1	-
12:49	0.4	0.4	12:49	0.1	0.1	-
12:50	0.4	0.4	12:50	0.1	0.1	-
12:51	0.4	0.4	12:51	0.1	0.1	-
12:52	0.4	0.4	12:52	0.1	0.1	-
12:53	0.4	0.4	12:53	0.1	0.1	-
12:54	0.4	0.4	12:54	0.1	0.1	-
12:55	0.4	0.4	12:55	0.1	0.1	-
12:56	0.4	0.4	12:56	0.1	0.1	-
12:57	0.4	0.4	12:57	0.1	0.1	-
12:58	0.4	0.4	12:58	0.1	0.1	-
12:59	0.4	0.4	12:59	0.1	0.1	-
13:00	0.4	0.4	13:00	0.1	0.1	-
13:01	0.4	0.4	13:01	0.1	0.1	-
13:02	0.4	0.4	13:02	0.1	0.1	-
13:03	0.4	0.4	13:03	0.1	0.1	-
13:04	0.4	0.4	13:04	0.1	0.1	-
13:05	0.4	0.4	13:05	0.1	0.1	-
13:06	0.4	0.4	13:06	0.1	0.1	-
13:07	0.4	0.4	13:07	0.1	0.1	-
13:08	0.4	0.4	13:08	0.1	0.1	-
13:09	0.5	0.4	13:09	0.1	0.1	-
13:10	0.5	0.4	13:10	0.1	0.1	-
13:11	0.4	0.4	13:11	0.1	0.1	-
13:12	0.4	0.4	13:12	0.1	0.1	-
13:13	0.4	0.4	13:13	0.1	0.1	-
13:14	0.4	0.4	13:14	0.1	0.1	-
13:15	0.4	0.4	13:15	0.1	0.1	-
13:16	0.4	0.4	13:16	0.1	0.1	-
13:17	0.4	0.4	13:17	0.1	0.1	-
13:18	0.4	0.4	13:18	0.1	0.1	-
13:19	0.4	0.4	13:19	0.1	0.1	-
13:20	0.4	0.4	13:20	0.1	0.1	-
13:21	0.4	0.4	13:21	0.1	0.1	-
13:22	0.4	0.4	13:22	0.1	0.1	-
13:23	0.4	0.4	13:23	0.1	0.1	-
13:24	0.4	0.4	13:24	0.1	0.1	-
13:25	0.4	0.4	13:25	0.1	0.1	-
13:26	0.4	0.4	13:26	0.1	0.1	-
13:27	0.5	0.4	13:27	0.1	0.1	-
13:28	0.5	0.4	13:28	0.1	0.1	-
13:29	0.5	0.4	13:29	0.1	0.1	-
13:30	0.5	0.4	13:30	0.1	0.1	-
13:31	0.5	0.4	13:31	0.1	0.1	-
13:32	0.5	0.4	13:32	0.1	0.1	-
13:33	0.5	0.4	13:33	0.1	0.1	-
13:34	0.5	0.4	13:34	0.1	0.1	-
13:35	0.5	0.5	13:35	0.1	0.1	-
13:36	0.5	0.5	13:36	0.1	0.1	-
13:37	0.5	0.5	13:37	0.1	0.1	-
13:38	0.5	0.5	13:38	0.1	0.1	-
13:39	0.4	0.5	13:39	0.1	0.1	-
13:40	0.4	0.5	13:40	0.1	0.1	-
13:41	0.4	0.5	13:41	0.1	0.1	-
13:42	0.4	0.5	13:42	0.1	0.1	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
13:43	0.5	0.5	13:43	0.1	0.1	-
13:44	0.4	0.5	13:44	0.1	0.1	-
13:45	0.4	0.5	13:45	0.1	0.1	-
13:46	0.4	0.5	13:46	0.1	0.1	-
13:47	0.4	0.5	13:47	0.1	0.1	-
13:48	0.4	0.4	13:48	0.1	0.1	-
13:49	0.4	0.4	13:49	0.1	0.1	-
13:50	0.4	0.4	13:50	0.1	0.1	-
13:51	0.4	0.4	13:51	0.1	0.1	-
13:52	0.4	0.4	13:52	0.1	0.1	-
13:53	0.4	0.4	13:53	0.1	0.1	-
13:54	0.4	0.4	13:54	0.1	0.1	-
13:55	0.4	0.4	13:55	0.1	0.1	-
13:56	0.4	0.4	13:56	0.1	0.1	-
13:57	0.4	0.4	13:57	0.1	0.1	-
13:58	0.4	0.4	13:58	0.1	0.1	-
13:59	0.4	0.4	13:59	0.1	0.1	-
14:00	0.4	0.4	14:00	0.1	0.1	-
14:01	0.4	0.4	14:01	0.1	0.1	-
14:02	0.5	0.4	14:02	0.1	0.1	-
14:03	0.4	0.4	14:03	0.1	0.1	-
14:04	0.4	0.4	14:04	0.1	0.1	-
14:05	0.4	0.4	14:05	0.1	0.1	-
14:06	0.4	0.4	14:06	0.1	0.1	-
14:07	0.4	0.4	14:07	0.1	0.1	-
14:08	0.4	0.4	14:08	0.1	0.1	-
14:09	0.4	0.4	14:09	0.1	0.1	-
14:10	0.4	0.4	14:10	0.1	0.1	-
14:11	0.4	0.4	14:11	0.1	0.1	-
14:12	0.4	0.4	14:12	0.1	0.1	-
14:13			14:13	0.1	0.1	

Monday, February 20, 2017						
Number of Instances Where Downwind Particulates Exceeds Upwind Particulate + 0.150 mg/m^3 =						0
Number of Comparable Data Points =						332
PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
7:53	0.012		7:53			
7:54	0.004		7:54			
7:55	0.004		7:55	0.010		
7:56	0.004		7:56	0.010		
7:57	0.005		7:57	0.015		
7:58	0.004		7:58	0.011		
7:59	0.004		7:59	0.007		
8:00	0.004		8:00	0.007		
8:01	0.004		8:01	0.007		
8:02	0.006		8:02	0.006		
8:03	0.016		8:03	0.006		
8:04	0.026		8:04	0.007		
8:05	0.007		8:05	0.006		
8:06	0.005		8:06	0.006		
8:07	0.004	0.007	8:07	0.006		
8:08	0.005	0.007	8:08	0.006		
8:09	0.004	0.007	8:09	0.006	0.008	-
8:10	0.004	0.007	8:10	0.006	0.007	-
8:11	0.004	0.007	8:11	0.006	0.007	-
8:12	0.004	0.007	8:12	0.006	0.007	-
8:13	0.004	0.007	8:13	0.006	0.006	-
8:14	0.004	0.007	8:14	0.007	0.006	-
8:15	0.004	0.007	8:15	0.006	0.006	-
8:16	0.004	0.007	8:16	0.006	0.006	-
8:17	0.005	0.007	8:17	0.006	0.006	-
8:18	0.004	0.006	8:18	0.006	0.006	-
8:19	0.004	0.004	8:19	0.006	0.006	-
8:20	0.004	0.004	8:20	0.009	0.006	-
8:21	0.004	0.004	8:21	0.007	0.006	-
8:22	0.004	0.004	8:22	0.007	0.006	-
8:23	0.004	0.004	8:23	0.007	0.006	-
8:24	0.004	0.004	8:24	0.009	0.007	-
8:25	0.003	0.004	8:25	0.007	0.007	-
8:26	0.003	0.004	8:26	0.008	0.007	-
8:27	0.003	0.004	8:27	0.006	0.007	-
8:28	0.003	0.004	8:28	0.006	0.007	-
8:29	0.003	0.004	8:29	0.008	0.007	-
8:30	0.003	0.004	8:30	0.006	0.007	-
8:31	0.003	0.004	8:31	0.006	0.007	-
8:32	0.003	0.003	8:32	0.007	0.007	-
8:33	0.003	0.003	8:33	0.006	0.007	-
8:34	0.003	0.003	8:34	0.007	0.007	-
8:35	0.012	0.004	8:35	0.008	0.007	-
8:36	0.012	0.004	8:36	0.007	0.007	-
8:37	0.003	0.004	8:37	0.007	0.007	-
8:38	0.003	0.004	8:38	0.008	0.007	-
8:39	0.002	0.004	8:39	0.007	0.007	-
8:40	0.002	0.004	8:40	0.010	0.007	-
8:41	0.002	0.004	8:41	0.007	0.007	-
8:42	0.002	0.004	8:42	0.006	0.007	-
8:43	0.002	0.004	8:43	0.007	0.007	-
8:44	0.002	0.004	8:44	0.008	0.007	-
8:45	0.041	0.006	8:45	0.008	0.007	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
8:46	0.031	0.008	8:46	0.008	0.007	-
8:47	0.018	0.009	8:47	0.009	0.008	-
8:48	0.052	0.012	8:48	0.008	0.008	-
8:49	0.043	0.015	8:49	0.008	0.008	-
8:50	0.050	0.018	8:50	0.008	0.008	-
8:51	0.080	0.022	8:51	0.008	0.008	-
8:52	0.011	0.023	8:52	0.015	0.008	-
8:53	0.002	0.023	8:53	0.026	0.010	-
8:54	0.002	0.023	8:54	0.026	0.011	-
8:55	0.001	0.023	8:55	0.006	0.011	-
8:56	0.001	0.023	8:56	0.006	0.010	-
8:57	0.001	0.022	8:57	0.007	0.011	-
8:58	0.001	0.022	8:58	0.007	0.011	-
8:59	0.001	0.022	8:59	0.008	0.011	-
9:00	0.001	0.020	9:00	0.006	0.010	-
9:01	0.000	0.018	9:01	0.008	0.010	-
9:02	0.001	0.016	9:02	0.007	0.010	-
9:03	0.001	0.013	9:03	0.010	0.010	-
9:04	0.000	0.010	9:04	0.007	0.010	-
9:05	0.006	0.007	9:05	0.010	0.010	-
9:06	0.012	0.003	9:06	0.011	0.011	-
9:07	0.004	0.002	9:07	0.009	0.010	-
9:08	0.014	0.003	9:08	0.008	0.009	-
9:09	0.023	0.004	9:09	0.009	0.008	-
9:10	0.011	0.005	9:10	0.007	0.008	-
9:11	0.009	0.006	9:11	0.007	0.008	-
9:12	0.008	0.006	9:12	0.010	0.008	-
9:13	0.004	0.006	9:13	0.007	0.008	-
9:14	0.021	0.008	9:14	0.007	0.008	-
9:15	0.012	0.008	9:15	0.009	0.008	-
9:16	0.008	0.009	9:16	0.009	0.008	-
9:17	0.012	0.010	9:17	0.010	0.009	-
9:18	0.006	0.010	9:18	0.009	0.009	-
9:19	0.014	0.011	9:19	0.009	0.009	-
9:20	0.009	0.011	9:20	0.006	0.008	-
9:21	0.007	0.011	9:21	0.010	0.008	-
9:22	0.010	0.011	9:22	0.014	0.009	-
9:23	0.017	0.011	9:23	0.007	0.009	-
9:24	0.012	0.011	9:24	0.007	0.009	-
9:25	0.010	0.011	9:25	0.007	0.009	-
9:26	0.003	0.010	9:26	0.008	0.009	-
9:27	0.021	0.011	9:27	0.006	0.008	-
9:28	0.003	0.011	9:28	0.006	0.008	-
9:29	0.000	0.010	9:29	0.007	0.008	-
9:30	0.000	0.009	9:30	0.006	0.008	-
9:31	0.000	0.008	9:31	0.006	0.008	-
9:32	0.001	0.008	9:32	0.006	0.008	-
9:33	0.002	0.007	9:33	0.006	0.007	-
9:34	0.001	0.006	9:34	0.006	0.007	-
9:35	0.000	0.006	9:35	0.006	0.007	-
9:36	0.000	0.005	9:36	0.006	0.007	-
9:37	0.000	0.005	9:37	0.007	0.006	-
9:38	0.000	0.004	9:38	0.006	0.006	-
9:39	0.000	0.003	9:39	0.007	0.006	-
9:40	0.000	0.002	9:40	0.006	0.006	-
9:41	0.000	0.002	9:41	0.008	0.006	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
9:42	0.001	0.001	9:42	0.007	0.006	-
9:43	0.000	0.000	9:43	0.008	0.007	-
9:44	0.000	0.000	9:44	0.007	0.007	-
9:45	0.000	0.000	9:45	0.009	0.007	-
9:46	0.002	0.000	9:46	0.007	0.007	-
9:47	0.021	0.002	9:47	0.007	0.007	-
9:48	0.009	0.002	9:48	0.015	0.007	-
9:49	0.023	0.004	9:49	0.013	0.008	-
9:50	0.012	0.005	9:50	0.017	0.009	-
9:51	0.009	0.005	9:51	0.024	0.010	-
9:52	0.013	0.006	9:52	0.025	0.011	-
9:53	0.012	0.007	9:53	0.022	0.012	-
9:54	0.006	0.007	9:54	0.030	0.014	-
9:55	0.011	0.008	9:55	0.049	0.017	-
9:56	0.008	0.008	9:56	0.011	0.017	-
9:57	0.044	0.011	9:57	0.008	0.017	-
9:58	0.023	0.013	9:58	0.009	0.017	-
9:59	0.008	0.013	9:59	0.010	0.017	-
10:00	0.042	0.016	10:00	0.007	0.017	-
10:01	0.039	0.019	10:01	0.008	0.017	-
10:02	0.011	0.018	10:02	0.008	0.017	-
10:03	0.042	0.020	10:03	0.007	0.017	-
10:04	0.013	0.020	10:04	0.007	0.016	-
10:05	0.015	0.020	10:05	0.016	0.016	-
10:06	0.027	0.021	10:06	0.008	0.015	-
10:07	0.037	0.023	10:07	0.010	0.014	-
10:08	0.007	0.022	10:08	0.010	0.013	-
10:09	0.025	0.023	10:09	0.008	0.012	-
10:10	0.026	0.024	10:10	0.010	0.009	-
10:11	0.019	0.025	10:11	0.012	0.009	-
10:12	0.044	0.025	10:12	0.007	0.009	-
10:13	0.010	0.024	10:13	0.012	0.009	-
10:14	0.017	0.025	10:14	0.008	0.009	-
10:15	0.013	0.023	10:15	0.007	0.009	-
10:16	0.007	0.021	10:16	0.056	0.012	-
10:17	0.018	0.021	10:17	0.032	0.014	-
10:18	0.010	0.019	10:18	0.021	0.015	-
10:19	0.004	0.019	10:19	0.029	0.016	-
10:20	0.013	0.018	10:20	0.007	0.016	-
10:21	0.007	0.017	10:21	0.012	0.016	-
10:22	0.051	0.018	10:22	0.008	0.016	-
10:23	0.004	0.018	10:23	0.007	0.016	-
10:24	0.003	0.016	10:24	0.008	0.016	-
10:25	0.006	0.015	10:25	0.009	0.016	-
10:26	0.009	0.014	10:26	0.006	0.015	-
10:27	0.006	0.012	10:27	0.007	0.015	-
10:28	0.023	0.013	10:28	0.020	0.016	-
10:29	0.016	0.013	10:29	0.048	0.018	-
10:30	0.005	0.012	10:30	0.037	0.020	-
10:31	0.001	0.012	10:31	0.010	0.017	-
10:32	0.012	0.011	10:32	0.006	0.016	-
10:33	0.016	0.012	10:33	0.010	0.015	-
10:34	0.021	0.013	10:34	0.007	0.013	-
10:35	0.006	0.012	10:35	0.009	0.014	-
10:36	0.005	0.012	10:36	0.011	0.014	-
10:37	0.047	0.012	10:37	0.008	0.014	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
10:38	0.028	0.014	10:38	0.010	0.014	-
10:39	0.004	0.014	10:39	0.009	0.014	-
10:40	0.000	0.013	10:40	0.006	0.014	-
10:41	0.001	0.013	10:41	0.005	0.014	-
10:42	0.002	0.012	10:42	0.008	0.014	-
10:43	0.001	0.011	10:43	0.006	0.013	-
10:44	0.003	0.010	10:44	0.006	0.010	-
10:45	0.002	0.010	10:45	0.006	0.008	-
10:46	0.000	0.010	10:46	0.004	0.007	-
10:47	-0.001	0.009	10:47	0.005	0.007	-
10:48	0.000	0.008	10:48	0.006	0.007	-
10:49	0.001	0.007	10:49	0.006	0.007	-
10:50	0.006	0.007	10:50	0.005	0.007	-
10:51	0.003	0.006	10:51	0.004	0.006	-
10:52	0.013	0.004	10:52	0.005	0.006	-
10:53	0.008	0.003	10:53	0.009	0.006	-
10:54	0.004	0.003	10:54	0.011	0.006	-
10:55	0.015	0.004	10:55	0.009	0.006	-
10:56	0.024	0.005	10:56	0.004	0.006	-
10:57	0.004	0.006	10:57	0.004	0.006	-
10:58	0.005	0.006	10:58	0.005	0.006	-
10:59	0.016	0.007	10:59	0.003	0.006	-
11:00	0.007	0.007	11:00	0.003	0.006	-
11:01	0.163	0.018	11:01	0.004	0.006	-
11:02	0.319	0.039	11:02	0.003	0.005	-
11:03	0.151	0.049	11:03	0.008	0.006	-
11:04	0.036	0.052	11:04	0.006	0.006	-
11:05	0.004	0.051	11:05	0.004	0.005	-
11:06	0.006	0.052	11:06	0.007	0.006	-
11:07	0.026	0.053	11:07	0.006	0.006	-
11:08	0.013	0.053	11:08	0.008	0.006	-
11:09	0.004	0.053	11:09	0.011	0.006	-
11:10	0.022	0.053	11:10	0.007	0.006	-
11:11	0.009	0.052	11:11	0.007	0.006	-
11:12	0.003	0.052	11:12	0.009	0.006	-
11:13	0.005	0.052	11:13	0.006	0.006	-
11:14	0.005	0.052	11:14	0.009	0.007	-
11:15	0.004	0.051	11:15	0.004	0.007	-
11:16	0.020	0.042	11:16	0.005	0.007	-
11:17	0.018	0.022	11:17	0.009	0.007	-
11:18	0.001	0.012	11:18	0.005	0.007	-
11:19	0.000	0.009	11:19	0.003	0.007	-
11:20	0.008	0.010	11:20	0.006	0.007	-
11:21	0.001	0.009	11:21	0.005	0.007	-
11:22	0.012	0.008	11:22	0.008	0.007	-
11:23	0.013	0.008	11:23	0.013	0.007	-
11:24	0.013	0.009	11:24	0.006	0.007	-
11:25	0.001	0.008	11:25	0.012	0.007	-
11:26	0.004	0.007	11:26	0.009	0.007	-
11:27	0.002	0.007	11:27	0.005	0.007	-
11:28	0.003	0.007	11:28	0.003	0.007	-
11:29	0.001	0.007	11:29	0.003	0.006	-
11:30	0.000	0.006	11:30	0.003	0.006	-
11:31	0.000	0.005	11:31	0.002	0.006	-
11:32	0.000	0.004	11:32	0.004	0.006	-
11:33	0.000	0.004	11:33	0.003	0.006	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
11:34	0.000	0.004	11:34	0.004	0.006	-
11:35	0.002	0.003	11:35	0.004	0.006	-
11:36	0.008	0.004	11:36	0.005	0.006	-
11:37	0.042	0.006	11:37	0.004	0.005	-
11:38	0.004	0.005	11:38	0.005	0.005	-
11:39	0.007	0.005	11:39	0.009	0.005	-
11:40	0.039	0.007	11:40	0.006	0.005	-
11:41	0.101	0.014	11:41	0.005	0.004	-
11:42	0.179	0.026	11:42	0.005	0.004	-
11:43	0.093	0.032	11:43	0.007	0.005	-
11:44	0.044	0.035	11:44	0.004	0.005	-
11:45	0.006	0.035	11:45	0.012	0.005	-
11:46	0.004	0.035	11:46	0.007	0.006	-
11:47	0.017	0.036	11:47	0.003	0.006	-
11:48	0.007	0.037	11:48	0.002	0.005	-
11:49	0.003	0.037	11:49	0.002	0.005	-
11:50	0.005	0.037	11:50	0.003	0.005	-
11:51	0.008	0.037	11:51	0.014	0.006	-
11:52	0.101	0.041	11:52	0.008	0.006	-
11:53	0.073	0.046	11:53	0.003	0.006	-
11:54	0.020	0.047	11:54	0.003	0.006	-
11:55	0.008	0.045	11:55	0.004	0.005	-
11:56	0.004	0.038	11:56	0.005	0.005	-
11:57	0.005	0.027	11:57	0.006	0.006	-
11:58	0.028	0.022	11:58	0.009	0.006	-
11:59	0.014	0.020	11:59	0.004	0.006	-
12:00	0.013	0.021	12:00	0.003	0.005	-
12:01	0.027	0.022	12:01	0.003	0.005	-
12:02	0.085	0.027	12:02	0.003	0.005	-
12:03	0.026	0.028	12:03	0.005	0.005	-
12:04	0.014	0.029	12:04	0.016	0.006	-
12:05	0.114	0.036	12:05	0.003	0.006	-
12:06	0.061	0.040	12:06	0.004	0.005	-
12:07	0.010	0.033	12:07	0.007	0.005	-
12:08	0.007	0.029	12:08	0.003	0.005	-
12:09	0.015	0.029	12:09	0.003	0.005	-
12:10	0.003	0.028	12:10	0.003	0.005	-
12:11	0.007	0.029	12:11	0.003	0.005	-
12:12	0.004	0.029	12:12	0.002	0.005	-
12:13	0.002	0.027	12:13	0.003	0.004	-
12:14	0.001	0.026	12:14	0.005	0.004	-
12:15	0.003	0.025	12:15	0.003	0.004	-
12:16	0.002	0.024	12:16	0.003	0.004	-
12:17	0.005	0.018	12:17	0.006	0.005	-
12:18	0.007	0.017	12:18	0.003	0.004	-
12:19	0.012	0.017	12:19	0.002	0.004	-
12:20	0.005	0.010	12:20	0.002	0.003	-
12:21	0.000	0.006	12:21	0.002	0.003	-
12:22	0.000	0.005	12:22	0.003	0.003	-
12:23	0.003	0.005	12:23	0.003	0.003	-
12:24	0.007	0.004	12:24	0.009	0.003	-
12:25	0.005	0.004	12:25	0.008	0.004	-
12:26	0.000	0.004	12:26	0.016	0.005	-
12:27	0.000	0.003	12:27	0.007	0.005	-
12:28	0.004	0.004	12:28	0.006	0.005	-
12:29	0.000	0.004	12:29	0.004	0.005	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
12:30	0.000	0.003	12:30	0.007	0.005	-
12:31	0.000	0.003	12:31	0.010	0.006	-
12:32	0.000	0.003	12:32	0.005	0.006	-
12:33	0.000	0.002	12:33	0.003	0.006	-
12:34	0.002	0.002	12:34	0.003	0.006	-
12:35	0.000	0.001	12:35	0.002	0.006	-
12:36	0.000	0.001	12:36	0.003	0.006	-
12:37	0.000	0.001	12:37	0.005	0.006	-
12:38	0.000	0.001	12:38	0.004	0.006	-
12:39	0.001	0.001	12:39	0.003	0.006	-
12:40	0.001	0.001	12:40	0.003	0.005	-
12:41	0.001	0.001	12:41	0.007	0.005	-
12:42	0.001	0.001	12:42	0.004	0.005	-
12:43	0.003	0.001	12:43	0.004	0.004	-
12:44	0.001	0.001	12:44	0.003	0.004	-
12:45	0.000	0.001	12:45	0.003	0.004	-
12:46	0.000	0.001	12:46	0.004	0.004	-
12:47	0.001	0.001	12:47	0.003	0.004	-
12:48	0.000	0.001	12:48	0.003	0.004	-
12:49	0.000	0.001	12:49	0.005	0.004	-
12:50	0.000	0.001	12:50	0.003	0.004	-
12:51	0.001	0.001	12:51	0.003	0.004	-
12:52	0.000	0.001	12:52	0.003	0.004	-
12:53	0.000	0.001	12:53	0.003	0.004	-
12:54	0.000	0.001	12:54	0.003	0.004	-
12:55	0.000	0.001	12:55	0.003	0.004	-
12:56	0.000	0.000	12:56	0.003	0.003	-
12:57	0.000	0.000	12:57	0.004	0.003	-
12:58	0.000	0.000	12:58	0.008	0.004	-
12:59	0.014	0.001	12:59	0.003	0.004	-
13:00	0.007	0.002	13:00	0.003	0.004	-
13:01	0.000	0.002	13:01	0.008	0.004	-
13:02	0.001	0.002	13:02	0.003	0.004	-
13:03	0.001	0.002	13:03	0.002	0.004	-
13:04	0.000	0.002	13:04	0.003	0.004	-
13:05	0.002	0.002	13:05	0.003	0.004	-
13:06	0.003	0.002	13:06	0.003	0.004	-
13:07	0.002	0.002	13:07	0.003	0.004	-
13:08	0.001	0.002	13:08	0.006	0.004	-
13:09	0.000	0.002	13:09	0.004	0.004	-
13:10	0.001	0.002	13:10	0.003	0.004	-
13:11	0.001	0.002	13:11	0.004	0.004	-
13:12	0.000	0.002	13:12	0.003	0.004	-
13:13	0.003	0.002	13:13	0.004	0.004	-
13:14	0.006	0.002	13:14	0.004	0.004	-
13:15	0.010	0.002	13:15	0.003	0.004	-
13:16	0.010	0.003	13:16	0.004	0.003	-
13:17	0.003	0.003	13:17	0.004	0.004	-
13:18	0.006	0.003	13:18	0.004	0.004	-
13:19	0.170	0.015	13:19	0.006	0.004	-
13:20	0.053	0.018	13:20	0.003	0.004	-
13:21	0.003	0.018	13:21	0.003	0.004	-
13:22	0.000	0.018	13:22	0.003	0.004	-
13:23	0.000	0.018	13:23	0.004	0.004	-
13:24	0.007	0.018	13:24	0.004	0.004	-
13:25	0.014	0.019	13:25	0.004	0.004	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
13:26	0.014	0.020	13:26	0.003	0.004	-
13:27	0.004	0.020	13:27	0.003	0.004	-
13:28	0.009	0.021	13:28	0.004	0.004	-
13:29	0.201	0.034	13:29	0.004	0.004	-
13:30	0.100	0.040	13:30	0.004	0.004	-
13:31	0.014	0.040	13:31	0.004	0.004	-
13:32	0.004	0.040	13:32	0.003	0.004	-
13:33	0.005	0.040	13:33	0.005	0.004	-
13:34	0.098	0.035	13:34	0.004	0.004	-
13:35	0.125	0.040	13:35	0.003	0.004	-
13:36	0.025	0.041	13:36	0.004	0.004	-
13:37	0.029	0.043	13:37	0.013	0.004	-
13:38	0.006	0.044	13:38	0.008	0.005	-
13:39	0.002	0.043	13:39	0.010	0.005	-
13:40	0.003	0.043	13:40	0.005	0.005	-
13:41			13:41	0.004	0.005	
13:42			13:42	0.003	0.005	

Monday, February 20, 2017						
Number of Instances Where Downwind VOCs Exceeds Upwind VOCs + 5 ppm =						0
Number of Comparable Data Points =						334
PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
8:00	0.1		8:00			
8:01	0.1		8:01			
8:02	0.1		8:02			
8:03	0.1		8:03			
8:04	0.1		8:04			
8:05	0.1		8:05			
8:06	0.1		8:06			
8:07	0.1		8:07			
8:08	0.1		8:08			
8:09	0.1		8:09			
8:10	0.1		8:10			
8:11	0.1		8:11			
8:12	0.1		8:12			
8:13	0.1		8:13			
8:14	0.1	0.1	8:14			
8:15	0.1	0.1	8:15	0.1		
8:16	0.1	0.1	8:16	0.1		
8:17	0.1	0.1	8:17	0.1		
8:18	0.1	0.1	8:18	0.1		
8:19	0.1	0.1	8:19	0.1		
8:20	0.1	0.1	8:20	0.1		
8:21	0.1	0.1	8:21	0.1		
8:22	0.1	0.1	8:22	0.1		
8:23	0.1	0.1	8:23	0.1		
8:24	0.1	0.1	8:24	0.1		
8:25	0.1	0.1	8:25	0.1		
8:26	0.1	0.1	8:26	0.1		
8:27	0.1	0.1	8:27	0.1		
8:28	0.1	0.1	8:28	0.1		
8:29	0.1	0.1	8:29	0.1	0.1	-
8:30	0.1	0.1	8:30	0.1	0.1	-
8:31	0.1	0.1	8:31	0.1	0.1	-
8:32	0.1	0.1	8:32	0.1	0.1	-
8:33	0.1	0.1	8:33	0.1	0.1	-
8:34	0.1	0.1	8:34	0.2	0.1	-
8:35	0.1	0.1	8:35	0.2	0.1	-
8:36	0.1	0.1	8:36	0.2	0.1	-
8:37	0.1	0.1	8:37	0.2	0.1	-
8:38	0.1	0.1	8:38	0.2	0.1	-
8:39	0.1	0.1	8:39	0.2	0.1	-
8:40	0.1	0.1	8:40	0.2	0.1	-
8:41	0.2	0.1	8:41	0.2	0.1	-
8:42	1.8	0.2	8:42	0.2	0.1	-
8:43	0.4	0.2	8:43	0.2	0.2	-
8:44	0.4	0.3	8:44	0.2	0.2	-
8:45	0.5	0.3	8:45	0.2	0.2	-
8:46	0.7	0.3	8:46	0.2	0.2	-
8:47	0.2	0.3	8:47	0.2	0.2	-
8:48	0.2	0.3	8:48	0.2	0.2	-
8:49	0.3	0.4	8:49	0.2	0.2	-
8:50	0.3	0.4	8:50	0.2	0.2	-
8:51	0.2	0.4	8:51	0.2	0.2	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
8:52	0.2	0.4	8:52	0.2	0.2	-
8:53	0.2	0.4	8:53	0.2	0.2	-
8:54	0.3	0.4	8:54	0.2	0.2	-
8:55	0.3	0.4	8:55	0.2	0.2	-
8:56	0.3	0.4	8:56	0.2	0.2	-
8:57	0.2	0.3	8:57	0.2	0.2	-
8:58	0.2	0.3	8:58	0.2	0.2	-
8:59	0.1	0.3	8:59	0.2	0.2	-
9:00	0.1	0.2	9:00	0.2	0.2	-
9:01	0.1	0.2	9:01	0.2	0.2	-
9:02	0.1	0.2	9:02	0.2	0.2	-
9:03	0.1	0.2	9:03	0.2	0.2	-
9:04	0.1	0.2	9:04	0.2	0.2	-
9:05	0.1	0.2	9:05	0.2	0.2	-
9:06	0.1	0.2	9:06	0.2	0.2	-
9:07	0.1	0.2	9:07	0.2	0.2	-
9:08	0.1	0.2	9:08	0.2	0.2	-
9:09	0.1	0.1	9:09	0.2	0.2	-
9:10	0.1	0.1	9:10	0.2	0.2	-
9:11	0.1	0.1	9:11	0.2	0.2	-
9:12	0.1	0.1	9:12	0.2	0.2	-
9:13	0.1	0.1	9:13	0.2	0.2	-
9:14	0.1	0.1	9:14	0.2	0.2	-
9:15	0.1	0.1	9:15	0.2	0.2	-
9:16	0.1	0.1	9:16	0.2	0.2	-
9:17	0.1	0.1	9:17	0.2	0.2	-
9:18	0.1	0.1	9:18	0.2	0.2	-
9:19	0.1	0.1	9:19	0.2	0.2	-
9:20	0.1	0.1	9:20	0.2	0.2	-
9:21	0.1	0.1	9:21	0.2	0.2	-
9:22	0.1	0.1	9:22	0.2	0.2	-
9:23	0.1	0.1	9:23	0.2	0.2	-
9:24	0.1	0.1	9:24	0.2	0.2	-
9:25	0.1	0.1	9:25	0.2	0.2	-
9:26	0.1	0.1	9:26	0.2	0.2	-
9:27	0.1	0.1	9:27	0.2	0.2	-
9:28	0.1	0.1	9:28	0.2	0.2	-
9:29	0.1	0.1	9:29	0.2	0.2	-
9:30	0.1	0.1	9:30	0.2	0.2	-
9:31	0.1	0.1	9:31	0.2	0.2	-
9:32	0.0	0.1	9:32	0.2	0.2	-
9:33	0.1	0.1	9:33	0.2	0.2	-
9:34	0.0	0.1	9:34	0.2	0.2	-
9:35	0.0	0.1	9:35	0.2	0.2	-
9:36	0.0	0.1	9:36	0.2	0.2	-
9:37	0.0	0.1	9:37	0.2	0.2	-
9:38	0.0	0.1	9:38	0.2	0.2	-
9:39	0.0	0.1	9:39	0.2	0.2	-
9:40	0.0	0.1	9:40	0.2	0.2	-
9:41	0.0	0.1	9:41	0.2	0.2	-
9:42	0.0	0.1	9:42	0.2	0.2	-
9:43	0.0	0.0	9:43	0.2	0.2	-
9:44	0.0	0.0	9:44	0.2	0.2	-
9:45	0.0	0.0	9:45	0.2	0.2	-
9:46	0.0	0.0	9:46	0.2	0.2	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
9:47	0.0	0.0	9:47	0.2	0.2	-
9:48	0.0	0.0	9:48	0.2	0.2	-
9:49	0.0	0.0	9:49	0.2	0.2	-
9:50	0.0	0.0	9:50	0.2	0.2	-
9:51	0.0	0.0	9:51	0.2	0.2	-
9:52	0.0	0.0	9:52	0.2	0.2	-
9:53	0.0	0.0	9:53	0.2	0.2	-
9:54	0.0	0.0	9:54	0.2	0.2	-
9:55	0.1	0.0	9:55	0.2	0.2	-
9:56	0.0	0.0	9:56	0.2	0.2	-
9:57	0.0	0.0	9:57	0.2	0.2	-
9:58	0.1	0.0	9:58	0.2	0.2	-
9:59	0.1	0.0	9:59	0.2	0.2	-
10:00	0.0	0.0	10:00	0.2	0.2	-
10:01	0.0	0.0	10:01	0.2	0.2	-
10:02	0.0	0.0	10:02	0.2	0.2	-
10:03	0.1	0.0	10:03	0.2	0.2	-
10:04	0.1	0.1	10:04	0.2	0.2	-
10:05	0.0	0.1	10:05	0.2	0.2	-
10:06	0.0	0.1	10:06	0.2	0.2	-
10:07	0.1	0.1	10:07	0.2	0.2	-
10:08	0.0	0.1	10:08	0.2	0.2	-
10:09	0.1	0.1	10:09	0.2	0.2	-
10:10	0.0	0.0	10:10	0.2	0.2	-
10:11	0.1	0.1	10:11	0.2	0.2	-
10:12	0.1	0.1	10:12	0.2	0.2	-
10:13	0.1	0.1	10:13	0.2	0.2	-
10:14	0.0	0.1	10:14	0.2	0.2	-
10:15	0.1	0.1	10:15	0.2	0.2	-
10:16	0.1	0.1	10:16	0.2	0.2	-
10:17	0.0	0.1	10:17	0.2	0.2	-
10:18	0.1	0.1	10:18	0.2	0.2	-
10:19	0.0	0.1	10:19	0.2	0.2	-
10:20	0.0	0.1	10:20	0.2	0.2	-
10:21	0.0	0.1	10:21	0.2	0.2	-
10:22	0.0	0.1	10:22	0.2	0.2	-
10:23	0.1	0.1	10:23	0.2	0.2	-
10:24	0.0	0.1	10:24	0.2	0.2	-
10:25	0.0	0.1	10:25	0.2	0.2	-
10:26	0.1	0.1	10:26	0.2	0.2	-
10:27	0.0	0.1	10:27	0.2	0.2	-
10:28	0.0	0.0	10:28	0.2	0.2	-
10:29	0.0	0.0	10:29	0.2	0.2	-
10:30	0.0	0.0	10:30	0.2	0.2	-
10:31	0.0	0.0	10:31	0.2	0.2	-
10:32	0.1	0.0	10:32	0.2	0.2	-
10:33	0.0	0.0	10:33	0.2	0.2	-
10:34	0.0	0.0	10:34	0.2	0.2	-
10:35	0.0	0.0	10:35	0.2	0.2	-
10:36	0.0	0.0	10:36	0.2	0.2	-
10:37	0.0	0.0	10:37	0.2	0.2	-
10:38	0.0	0.0	10:38	0.2	0.2	-
10:39	0.0	0.0	10:39	0.2	0.2	-
10:40	0.0	0.0	10:40	0.2	0.2	-
10:41	0.0	0.0	10:41	0.2	0.2	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
10:42	0.0	0.0	10:42	0.1	0.2	-
10:43	0.0	0.0	10:43	0.2	0.2	-
10:44	0.0	0.0	10:44	0.2	0.2	-
10:45	0.0	0.0	10:45	0.2	0.2	-
10:46	0.0	0.0	10:46	0.2	0.2	-
10:47	0.0	0.0	10:47	0.2	0.2	-
10:48	0.0	0.0	10:48	0.2	0.2	-
10:49	0.0	0.0	10:49	0.2	0.2	-
10:50	0.0	0.0	10:50	0.2	0.2	-
10:51	0.0	0.0	10:51	0.2	0.2	-
10:52	0.0	0.0	10:52	0.2	0.2	-
10:53	0.0	0.0	10:53	0.2	0.2	-
10:54	0.0	0.0	10:54	0.2	0.2	-
10:55	0.0	0.0	10:55	0.2	0.2	-
10:56	0.0	0.0	10:56	0.2	0.2	-
10:57	0.0	0.0	10:57	0.2	0.2	-
10:58	0.0	0.0	10:58	0.2	0.2	-
10:59	0.0	0.0	10:59	0.2	0.2	-
11:00	0.0	0.0	11:00	0.2	0.2	-
11:01	0.0	0.0	11:01	0.2	0.2	-
11:02	0.0	0.0	11:02	0.1	0.2	-
11:03	0.0	0.0	11:03	0.1	0.2	-
11:04	0.0	0.0	11:04	0.1	0.2	-
11:05	0.0	0.0	11:05	0.1	0.2	-
11:06	0.0	0.0	11:06	0.1	0.2	-
11:07	0.4	0.0	11:07	0.1	0.1	-
11:08	1.2	0.1	11:08	0.1	0.1	-
11:09	0.7	0.2	11:09	0.1	0.1	-
11:10	0.1	0.2	11:10	0.1	0.1	-
11:11	0.0	0.2	11:11	0.1	0.1	-
11:12	0.0	0.2	11:12	0.1	0.1	-
11:13	0.0	0.2	11:13	0.1	0.1	-
11:14	0.0	0.2	11:14	0.1	0.1	-
11:15	0.0	0.2	11:15	0.1	0.1	-
11:16	0.1	0.2	11:16	0.1	0.1	-
11:17	0.0	0.2	11:17	0.1	0.1	-
11:18	0.0	0.2	11:18	0.1	0.1	-
11:19	0.0	0.2	11:19	0.1	0.1	-
11:20	0.0	0.2	11:20	0.1	0.1	-
11:21	0.0	0.2	11:21	0.1	0.1	-
11:22	0.0	0.1	11:22	0.1	0.1	-
11:23	0.0	0.1	11:23	0.1	0.1	-
11:24	0.0	0.0	11:24	0.1	0.1	-
11:25	0.0	0.0	11:25	0.1	0.1	-
11:26	0.0	0.0	11:26	0.1	0.1	-
11:27	0.0	0.0	11:27	0.1	0.1	-
11:28	0.0	0.0	11:28	0.1	0.1	-
11:29	0.0	0.0	11:29	0.1	0.1	-
11:30	0.0	0.0	11:30	0.1	0.1	-
11:31	0.0	0.0	11:31	0.1	0.1	-
11:32	0.0	0.0	11:32	0.1	0.1	-
11:33	0.0	0.0	11:33	0.1	0.1	-
11:34	0.0	0.0	11:34	0.1	0.1	-
11:35	0.0	0.0	11:35	0.1	0.1	-
11:36	0.0	0.0	11:36	0.1	0.1	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
11:37	0.0	0.0	11:37	0.1	0.1	-
11:38	0.0	0.0	11:38	0.1	0.1	-
11:39	0.0	0.0	11:39	0.1	0.1	-
11:40	0.0	0.0	11:40	0.1	0.1	-
11:41	0.0	0.0	11:41	0.1	0.1	-
11:42	0.0	0.0	11:42	0.1	0.1	-
11:43	0.1	0.0	11:43	0.1	0.1	-
11:44	0.0	0.0	11:44	0.1	0.1	-
11:45	0.0	0.0	11:45	0.1	0.1	-
11:46	0.1	0.0	11:46	0.1	0.1	-
11:47	0.3	0.0	11:47	0.1	0.1	-
11:48	0.9	0.1	11:48	0.1	0.1	-
11:49	0.6	0.1	11:49	0.1	0.1	-
11:50	0.2	0.1	11:50	0.1	0.1	-
11:51	0.0	0.1	11:51	0.1	0.1	-
11:52	0.0	0.1	11:52	0.1	0.1	-
11:53	0.0	0.1	11:53	0.1	0.1	-
11:54	0.0	0.2	11:54	0.1	0.1	-
11:55	0.0	0.2	11:55	0.1	0.1	-
11:56	0.0	0.2	11:56	0.1	0.1	-
11:57	0.0	0.2	11:57	0.1	0.1	-
11:58	0.0	0.2	11:58	0.1	0.1	-
11:59	0.0	0.2	11:59	0.1	0.1	-
12:00	0.0	0.2	12:00	0.1	0.1	-
12:01	0.0	0.1	12:01	0.1	0.1	-
12:02	0.0	0.1	12:02	0.1	0.1	-
12:03	0.0	0.1	12:03	0.1	0.1	-
12:04	0.0	0.0	12:04	0.1	0.1	-
12:05	0.0	0.0	12:05	0.1	0.1	-
12:06	0.0	0.0	12:06	0.1	0.1	-
12:07	0.0	0.0	12:07	0.1	0.1	-
12:08	0.2	0.0	12:08	0.1	0.1	-
12:09	0.1	0.0	12:09	0.1	0.1	-
12:10	0.1	0.0	12:10	0.1	0.1	-
12:11	0.1	0.0	12:11	0.1	0.1	-
12:12	0.0	0.0	12:12	0.1	0.1	-
12:13	0.0	0.0	12:13	0.1	0.1	-
12:14	0.0	0.0	12:14	0.1	0.1	-
12:15	0.1	0.0	12:15	0.1	0.1	-
12:16	0.0	0.0	12:16	0.1	0.1	-
12:17	0.0	0.0	12:17	0.1	0.1	-
12:18	0.0	0.0	12:18	0.1	0.1	-
12:19	0.0	0.0	12:19	0.1	0.1	-
12:20	0.0	0.0	12:20	0.1	0.1	-
12:21	0.0	0.0	12:21	0.1	0.1	-
12:22	0.0	0.0	12:22	0.1	0.1	-
12:23	0.0	0.0	12:23	0.1	0.1	-
12:24	0.0	0.0	12:24	0.1	0.1	-
12:25	0.0	0.0	12:25	0.1	0.1	-
12:26	0.0	0.0	12:26	0.1	0.1	-
12:27	0.0	0.0	12:27	0.1	0.1	-
12:28	0.0	0.0	12:28	0.1	0.1	-
12:29	0.0	0.0	12:29	0.1	0.1	-
12:30	0.0	0.0	12:30	0.1	0.1	-
12:31	0.0	0.0	12:31	0.1	0.1	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
12:32	0.0	0.0	12:32	0.1	0.1	-
12:33	0.0	0.0	12:33	0.1	0.1	-
12:34	0.0	0.0	12:34	0.1	0.1	-
12:35	0.0	0.0	12:35	0.1	0.1	-
12:36	0.0	0.0	12:36	0.1	0.1	-
12:37	0.0	0.0	12:37	0.1	0.1	-
12:38	0.0	0.0	12:38	0.1	0.1	-
12:39	0.0	0.0	12:39	0.1	0.1	-
12:40	0.0	0.0	12:40	0.2	0.1	-
12:41	0.0	0.0	12:41	0.2	0.1	-
12:42	0.0	0.0	12:42	0.2	0.1	-
12:43	0.0	0.0	12:43	0.1	0.1	-
12:44	0.0	0.0	12:44	0.1	0.1	-
12:45	0.0	0.0	12:45	0.1	0.1	-
12:46	0.0	0.0	12:46	0.2	0.1	-
12:47	0.0	0.0	12:47	0.1	0.1	-
12:48	0.0	0.0	12:48	0.1	0.1	-
12:49	0.0	0.0	12:49	0.1	0.1	-
12:50	0.0	0.0	12:50	0.1	0.1	-
12:51	0.0	0.0	12:51	0.1	0.1	-
12:52	0.0	0.0	12:52	0.1	0.1	-
12:53	0.0	0.0	12:53	0.1	0.1	-
12:54	0.0	0.0	12:54	0.1	0.1	-
12:55	0.0	0.0	12:55	0.1	0.1	-
12:56	0.0	0.0	12:56	0.1	0.1	-
12:57	0.0	0.0	12:57	0.1	0.1	-
12:58	0.0	0.0	12:58	0.1	0.1	-
12:59	0.0	0.0	12:59	0.1	0.1	-
13:00	0.0	0.0	13:00	0.1	0.1	-
13:01	0.0	0.0	13:01	0.1	0.1	-
13:02	0.0	0.0	13:02	0.1	0.1	-
13:03	0.0	0.0	13:03	0.1	0.1	-
13:04	0.0	0.0	13:04	0.1	0.1	-
13:05	0.0	0.0	13:05	0.1	0.1	-
13:06	0.0	0.0	13:06	0.1	0.1	-
13:07	0.0	0.0	13:07	0.1	0.1	-
13:08	0.0	0.0	13:08	0.1	0.1	-
13:09	0.0	0.0	13:09	0.1	0.1	-
13:10	0.0	0.0	13:10	0.1	0.1	-
13:11	0.0	0.0	13:11	0.1	0.1	-
13:12	0.0	0.0	13:12	0.1	0.1	-
13:13	0.0	0.0	13:13	0.1	0.1	-
13:14	0.0	0.0	13:14	0.1	0.1	-
13:15	0.0	0.0	13:15	0.1	0.1	-
13:16	0.0	0.0	13:16	0.1	0.1	-
13:17	0.0	0.0	13:17	0.1	0.1	-
13:18	0.0	0.0	13:18	0.1	0.1	-
13:19	0.0	0.0	13:19	0.1	0.1	-
13:20	0.0	0.0	13:20	0.1	0.1	-
13:21	0.0	0.0	13:21	0.1	0.1	-
13:22	0.0	0.0	13:22	0.1	0.1	-
13:23	0.0	0.0	13:23	0.1	0.1	-
13:24	0.0	0.0	13:24	0.1	0.1	-
13:25	0.5	0.0	13:25	0.1	0.1	-
13:26	0.4	0.1	13:26	0.1	0.1	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
13:27	0.0	0.1	13:27	0.1	0.1	-
13:28	0.0	0.1	13:28	0.1	0.1	-
13:29	0.0	0.1	13:29	0.1	0.1	-
13:30	0.0	0.1	13:30	0.1	0.1	-
13:31	0.0	0.1	13:31	0.1	0.1	-
13:32	0.0	0.1	13:32	0.1	0.1	-
13:33	0.0	0.1	13:33	0.1	0.1	-
13:34	0.0	0.1	13:34	0.1	0.1	-
13:35	0.3	0.1	13:35	0.1	0.1	-
13:36	0.4	0.1	13:36	0.1	0.1	-
13:37	0.0	0.1	13:37	0.1	0.1	-
13:38	0.0	0.1	13:38	0.1	0.1	-
13:39	0.0	0.1	13:39	0.1	0.1	-
13:40	0.1	0.1	13:40	0.1	0.1	-
13:41	0.0	0.1	13:41	0.1	0.1	-
13:42	0.0	0.1	13:42	0.1	0.1	-
13:43	0.0	0.1	13:43	0.1	0.1	-
13:44	0.0	0.1	13:44	0.1	0.1	-
13:45	0.0	0.1	13:45	0.1	0.1	-
13:46	0.0	0.1	13:46	0.1	0.1	-
13:47	0.4	0.1	13:47	0.1	0.1	-
13:48	0.4	0.1	13:48	0.1	0.1	-
13:49	0.4	0.1	13:49	0.1	0.1	-
13:50	0.4	0.2	13:50	0.1	0.1	-
13:51	0.4	0.2	13:51	0.1	0.1	-
13:52	0.5	0.2	13:52	0.1	0.1	-
13:53	0.4	0.2	13:53	0.1	0.1	-
13:54	0.4	0.2	13:54	0.1	0.1	-
13:55	0.4	0.3	13:55	0.1	0.1	-
13:56	0.4	0.3	13:56	0.1	0.1	-
13:57	0.4	0.3	13:57	0.1	0.1	-
13:58	0.4	0.3	13:58	0.1	0.1	-
13:59	0.4	0.4	13:59	0.1	0.1	-
14:00	0.4	0.4	14:00	0.1	0.1	-
14:01	0.4	0.4	14:01	0.1	0.1	-
14:02	0.4	0.4	14:02	0.1	0.1	-
14:03			14:03	0.1	0.1	

Thursday, February 23, 2017						
Number of Instances Where Downwind Particulates Exceeds Upwind Particulate + 0.150 mg/m^3 =						0
Number of Comparable Data Points =						201
PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
7:08:15 AM			7:08	0.093		
7:09	0.084		7:09	0.086		
7:10	0.068		7:10	0.087		
7:11	0.069		7:11	0.086		
7:12	0.068		7:12	0.087		
7:13	0.068		7:13	0.087		
7:14	0.069		7:14	0.085		
7:15	0.068		7:15	0.085		
7:16	0.068		7:16	0.086		
7:17	0.068		7:17	0.085		
7:18	0.069		7:18	0.085		
7:19	0.069		7:19	0.085		
7:20	0.068		7:20	0.086		
7:21	0.069		7:21	0.086		
7:22	0.069	0.070	7:22	0.086		
7:23	0.069	0.070	7:23	0.086		
7:24	0.069	0.069	7:24	0.086	0.086	-
7:25	0.070	0.069	7:25	0.086	0.086	-
7:26	0.070	0.069	7:26	0.087	0.086	-
7:27	0.071	0.069	7:27	0.089	0.086	-
7:28	0.070	0.069	7:28	0.090	0.086	-
7:29	0.071	0.069	7:29	0.090	0.087	-
7:30	0.073	0.070	7:30	0.091	0.087	-
7:31	0.073	0.070	7:31	0.094	0.087	-
7:32	0.074	0.070	7:32	0.096	0.088	-
7:33	0.076	0.071	7:33	0.096	0.089	-
7:34	0.078	0.071	7:34	0.096	0.090	-
7:35	0.077	0.072	7:35	0.096	0.090	-
7:36	0.077	0.072	7:36	0.099	0.091	-
7:37	0.077	0.073	7:37	0.098	0.092	-
7:38	0.080	0.074	7:38	0.098	0.093	-
7:39	0.082	0.075	7:39	0.098	0.094	-
7:40	0.081	0.075	7:40	0.097	0.094	-
7:41	0.094	0.077	7:41	0.097	0.095	-
7:42	0.085	0.078	7:42	0.098	0.096	-
7:43	0.081	0.079	7:43	0.103	0.096	-
7:44	0.085	0.080	7:44	0.100	0.097	-
7:45	0.089	0.081	7:45	0.097	0.098	-
7:46	0.086	0.081	7:46	0.096	0.098	-
7:47	0.081	0.082	7:47	0.095	0.098	-
7:48	0.079	0.082	7:48	0.093	0.097	-
7:49	0.079	0.082	7:49	0.093	0.097	-
7:50	0.078	0.082	7:50	0.093	0.097	-
7:51	0.077	0.082	7:51	0.094	0.097	-
7:52	0.077	0.082	7:52	0.095	0.096	-
7:53	0.078	0.082	7:53	0.096	0.096	-
7:54	0.079	0.082	7:54	0.098	0.096	-
7:55	0.080	0.082	7:55	0.101	0.097	-
7:56	0.082	0.081	7:56	0.104	0.097	-
7:57	0.085	0.081	7:57	0.105	0.098	-
7:58	0.086	0.081	7:58	0.107	0.098	-
7:59	0.087	0.082	7:59	0.108	0.098	-
8:00	0.091	0.082	8:00	0.109	0.099	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
8:01	0.092	0.082	8:01	0.105	0.100	-
8:02	0.092	0.083	8:02	0.104	0.100	-
8:03	0.092	0.084	8:03	0.103	0.101	-
8:04	0.091	0.084	8:04	0.103	0.102	-
8:05	0.090	0.085	8:05	0.094	0.102	-
8:06	0.088	0.086	8:06	0.096	0.102	-
8:07	0.085	0.087	8:07	0.098	0.102	-
8:08	0.084	0.087	8:08	0.097	0.102	-
8:09	0.084	0.087	8:09	0.093	0.102	-
8:10	0.084	0.088	8:10	0.089	0.101	-
8:11	0.081	0.087	8:11	0.086	0.100	-
8:12	0.078	0.087	8:12	0.084	0.098	-
8:13	0.076	0.086	8:13	0.078	0.096	-
8:14	0.074	0.085	8:14	0.080	0.095	-
8:15	0.070	0.084	8:15	0.082	0.093	-
8:16	0.070	0.083	8:16	0.082	0.091	-
8:17	0.070	0.081	8:17	0.083	0.090	-
8:18	0.070	0.080	8:18	0.082	0.088	-
8:19	0.069	0.078	8:19	0.082	0.087	-
8:20	0.070	0.077	8:20	0.083	0.086	-
8:21	0.070	0.076	8:21	0.082	0.085	-
8:22	0.070	0.075	8:22	0.085	0.085	-
8:23	0.071	0.074	8:23	0.083	0.084	-
8:24	0.072	0.073	8:24	0.085	0.083	-
8:25	0.072	0.072	8:25	0.085	0.083	-
8:26	0.073	0.072	8:26	0.086	0.083	-
8:27	0.073	0.071	8:27	0.086	0.083	-
8:28	0.074	0.071	8:28	0.086	0.083	-
8:29	0.074	0.071	8:29	0.087	0.084	-
8:30	0.073	0.071	8:30	0.087	0.084	-
8:31	0.073	0.072	8:31	0.084	0.084	-
8:32	0.073	0.072	8:32	0.085	0.085	-
8:33	0.073	0.072	8:33	0.086	0.085	-
8:34	0.073	0.072	8:34	0.087	0.085	-
8:35	0.074	0.073	8:35	0.083	0.085	-
8:36	0.073	0.073	8:36	0.083	0.085	-
8:37	0.073	0.073	8:37	0.084	0.085	-
8:38	0.072	0.073	8:38	0.086	0.085	-
8:39	0.073	0.073	8:39	0.089	0.086	-
8:40	0.073	0.073	8:40	0.090	0.086	-
8:41	0.077	0.073	8:41	0.090	0.086	-
8:42	0.077	0.074	8:42	0.090	0.086	-
8:43	0.075	0.074	8:43	0.090	0.087	-
8:44	0.076	0.074	8:44	0.090	0.087	-
8:45	0.077	0.074	8:45	0.086	0.087	-
8:46	0.077	0.074	8:46	0.085	0.087	-
8:47	0.075	0.075	8:47	0.084	0.087	-
8:48	0.072	0.074	8:48	0.085	0.087	-
8:49	0.056	0.073	8:49	0.084	0.087	-
8:50	0.003	0.069	8:50	0.084	0.087	-
8:51	0.017	0.065	8:51	0.083	0.087	-
8:52	0.036	0.062	8:52	0.085	0.087	-
8:53	0.051	0.061	8:53	0.084	0.087	-
8:54	0.017	0.057	8:54	0.082	0.086	-
8:55	0.040	0.055	8:55	0.083	0.086	-
8:56	0.034	0.052	8:56	0.083	0.085	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
8:57	0.018	0.048	8:57	0.082	0.085	-
8:58	0.010	0.044	8:58	0.082	0.084	-
8:59	0.009	0.039	8:59	0.081	0.084	-
9:00	0.018	0.036	9:00	0.082	0.083	-
9:01	0.013	0.031	9:01	0.080	0.083	-
9:02	Error Recording	0.031	9:02	0.079	0.083	-
9:03	Error Recording	0.031	9:03	0.079	0.082	-
9:04	Error Recording	0.031	9:04	0.079	0.082	-
9:05	Error Recording	0.031	9:05	0.076	0.081	-
9:06	Error Recording	0.031	9:06	0.077	0.081	-
9:07	Error Recording	0.031	9:07	0.077	0.080	-
9:08	Error Recording	0.031	9:08	0.076	0.080	-
9:09	Error Recording	0.031	9:09	0.074	0.079	-
9:10	Error Recording	0.031	9:10	0.074	0.079	-
9:11	Error Recording	0.031	9:11	0.073	0.078	-
9:12	Error Recording	0.031	9:12	0.072	0.077	-
9:13	Error Recording	0.031	9:13	0.073	0.077	-
9:14	Error Recording	0.031	9:14	0.073	0.076	-
9:15	Error Recording	0.031	9:15	0.075	0.076	-
9:16	Error Recording	0.031	9:16	0.074	0.075	-
9:17	Error Recording	0.031	9:17	0.071	0.075	-
9:18	Error Recording	0.031	9:18	0.070	0.074	-
9:19	Error Recording	0.031	9:19	0.072	0.074	-
9:20	Error Recording	0.031	9:20	0.072	0.074	-
9:21	Error Recording	0.031	9:21	0.072	0.073	-
9:22	Error Recording	0.031	9:22	0.071	0.073	-
9:23	Error Recording	0.031	9:23	0.074	0.073	-
9:24	Error Recording	0.031	9:24	0.071	0.072	-
9:25	Error Recording	0.031	9:25	0.068	0.072	-
9:26	Error Recording	0.031	9:26	0.068	0.072	-
9:27	Error Recording	0.031	9:27	0.067	0.071	-
9:28	Error Recording	0.031	9:28	0.066	0.071	-
9:29	Error Recording	0.031	9:29	0.065	0.070	-
9:30	Error Recording	0.031	9:30	0.065	0.070	-
9:31	Error Recording	0.031	9:31	0.068	0.069	-
9:32	Error Recording	0.031	9:32	0.072	0.069	-
9:33	Error Recording	0.031	9:33	0.072	0.070	-
9:34	Error Recording	0.031	9:34	0.068	0.069	-
9:35	Error Recording	0.031	9:35	0.067	0.069	-
9:36	Error Recording	0.031	9:36	0.069	0.069	-
9:37	Error Recording	0.031	9:37	0.071	0.069	-
9:38	Error Recording	0.031	9:38	0.068	0.068	-
9:39	Error Recording	0.031	9:39	0.063	0.068	-
9:40	Error Recording	0.031	9:40	0.062	0.067	-
9:41	Error Recording	0.031	9:41	0.065	0.067	-
9:42	Error Recording	0.031	9:42	0.068	0.067	-
9:43	Error Recording	0.031	9:43	0.067	0.067	-
9:44	Error Recording	0.031	9:44	0.067	0.067	-
9:45	Error Recording	0.031	9:45	0.074	0.068	-
9:46	Error Recording	0.031	9:46	0.070	0.068	-
9:47	Error Recording	0.031	9:47	0.071	0.068	-
9:48	Error Recording	0.031	9:48	0.081	0.069	-
9:49	Error Recording	0.031	9:49	0.081	0.070	-
9:50	Error Recording	0.031	9:50	0.076	0.070	-
9:51	Error Recording	0.031	9:51	0.072	0.070	-
9:52	Error Recording	0.031	9:52	0.069	0.070	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
9:53	Error Recording	0.031	9:53	0.069	0.070	-
9:54	Error Recording	0.031	9:54	0.069	0.071	-
9:55	Error Recording	0.031	9:55	0.069	0.071	-
9:56	Error Recording	0.031	9:56	0.069	0.071	-
9:57	Error Recording	0.031	9:57	0.070	0.072	-
9:58	Error Recording	0.031	9:58	0.067	0.072	-
9:59	Error Recording	0.031	9:59	0.064	0.071	-
10:00	Error Recording	0.031	10:00	0.064	0.071	-
10:01	Error Recording	0.031	10:01	0.065	0.070	-
10:02	Error Recording	0.031	10:02	0.066	0.070	-
10:03	Error Recording	0.031	10:03	0.070	0.069	-
10:04	Error Recording	0.031	10:04	0.072	0.069	-
10:05	Error Recording	0.031	10:05	0.073	0.069	-
10:06	Error Recording	0.031	10:06	0.074	0.069	-
10:07	Error Recording	0.031	10:07	0.073	0.069	-
10:08	Error Recording	0.031	10:08	0.074	0.069	-
10:09	Error Recording	0.031	10:09	0.072	0.069	-
10:10	Error Recording	0.031	10:10	0.082	0.070	-
10:11	Error Recording	0.031	10:11	0.071	0.070	-
10:12	Error Recording	0.031	10:12	0.067	0.070	-
10:13	Error Recording	0.031	10:13	0.070	0.070	-
10:14	Error Recording	0.031	10:14	0.068	0.071	-
10:15	Error Recording	0.031	10:15	0.067	0.071	-
10:16	Error Recording	0.031	10:16	0.063	0.071	-
10:17	Error Recording	0.031	10:17	0.063	0.071	-
10:18	Error Recording	0.031	10:18	0.063	0.070	-
10:19	Error Recording	0.031	10:19	0.063	0.070	-
10:20	Error Recording	0.031	10:20	0.064	0.069	-
10:21	Error Recording	0.031	10:21	0.064	0.068	-
10:22	Error Recording	0.031	10:22	0.064	0.068	-
10:23	Error Recording	0.031	10:23	0.065	0.067	-
10:24	Error Recording	0.031	10:24	0.063	0.066	-
10:25	Error Recording	0.031	10:25	0.064	0.065	-
10:26	Error Recording	0.031	10:26	0.064	0.065	-
10:27	Error Recording	0.031	10:27	0.065	0.065	-
10:28	Error Recording	0.031	10:28	0.066	0.064	-
10:29	Error Recording	0.031	10:29	0.067	0.064	-
10:30	Error Recording	0.031	10:30	0.067	0.064	-
10:31	Error Recording	0.031	10:31	0.068	0.065	-
10:32	Error Recording	0.031	10:32	0.082	0.066	-
10:33	Error Recording	0.031	10:33	0.073	0.067	-
10:34	Error Recording	0.031	10:34	0.083	0.068	-
10:35	Error Recording	0.031	10:35	0.095	0.070	-
10:36	Error Recording	0.031	10:36	0.096	0.072	-
10:37	Error Recording	0.031	10:37	0.074	0.073	-
10:38	Error Recording	0.031	10:38	0.089	0.074	-
10:39	Error Recording	0.031	10:39	0.088	0.076	-
10:40	Error Recording	0.031	10:40	0.091	0.078	-
10:41	Error Recording	0.031	10:41	0.095	0.080	-
10:42	Error Recording	0.031	10:42	0.086	0.081	-
10:43	Error Recording	0.031	10:43	0.084	0.083	-
10:44	Error Recording	0.031	10:44	0.089	0.084	-

Thursday, February 23, 2017						
Number of Instances Where Downwind VOCs Exceeds Upwind VOCs + 5 ppm =						0
Number of Comparable Data Points =						189
PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
7:13			7:13	0.0		
7:14			7:14	0.0		
7:15			7:15	0.0		
7:16			7:16	0.0		
7:17			7:17	0.0		
7:18			7:18	0.0		
7:19			7:19	0.0		
7:20			7:20	0.0		
7:21			7:21	0.0		
7:22			7:22	0.0		
7:23			7:23	0.0		
7:24			7:24	0.0		
7:25			7:25	0.0		
7:26			7:26	0.0		
7:27	0.0		7:27	0.0	0.0	
7:28	0.0		7:28	0.0	0.0	
7:29	0.0		7:29	0.0	0.0	
7:30	0.0		7:30	0.0	0.0	
7:31	0.0		7:31	0.0	0.0	
7:32	0.0		7:32	0.0	0.0	
7:33	0.0		7:33	0.0	0.0	
7:34	0.0		7:34	0.0	0.0	
7:35	0.0		7:35	0.0	0.0	
7:36	0.0		7:36	0.0	0.0	
7:37	0.0		7:37	0.0	0.0	
7:38	0.0		7:38	0.0	0.0	
7:39	0.0		7:39	0.0	0.0	
7:40	0.0		7:40	0.0	0.0	
7:41	0.0	0.0	7:41	0.0	0.0	-
7:42	0.1	0.0	7:42	0.0	0.0	-
7:43	0.1	0.0	7:43	0.0	0.0	-
7:44	0.1	0.0	7:44	0.0	0.0	-
7:45	0.1	0.0	7:45	0.0	0.0	-
7:46	0.1	0.0	7:46	0.0	0.0	-
7:47	0.1	0.0	7:47	0.0	0.0	-
7:48	0.1	0.1	7:48	0.0	0.0	-
7:49	0.1	0.1	7:49	0.0	0.0	-
7:50	0.1	0.1	7:50	0.0	0.0	-
7:51	0.1	0.1	7:51	0.0	0.0	-
7:52	0.1	0.1	7:52	0.0	0.0	-
7:53	0.1	0.1	7:53	0.0	0.0	-
7:54	0.1	0.1	7:54	0.0	0.0	-
7:55	0.1	0.1	7:55	0.0	0.0	-
7:56	0.1	0.1	7:56	0.0	0.0	-
7:57	0.1	0.1	7:57	0.0	0.0	-
7:58	0.1	0.1	7:58	0.0	0.0	-
7:59	0.1	0.1	7:59	0.0	0.0	-
8:00	0.1	0.1	8:00	0.0	0.0	-
8:01	0.1	0.1	8:01	0.0	0.0	-
8:02	0.1	0.1	8:02	0.0	0.0	-
8:03	0.1	0.1	8:03	0.0	0.0	-
8:04	0.1	0.1	8:04	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
8:05	0.1	0.1	8:05	0.0	0.0	-
8:06	0.1	0.1	8:06	0.0	0.0	-
8:07	0.1	0.1	8:07	0.0	0.0	-
8:08	0.1	0.1	8:08	0.0	0.0	-
8:09	0.1	0.1	8:09	0.0	0.0	-
8:10	0.1	0.1	8:10	0.0	0.0	-
8:11	0.1	0.1	8:11	0.0	0.0	-
8:12	0.1	0.1	8:12	0.0	0.0	-
8:13	0.1	0.1	8:13	0.0	0.0	-
8:14	0.1	0.1	8:14	0.0	0.0	-
8:15	0.1	0.1	8:15	0.0	0.0	-
8:16	0.1	0.1	8:16	0.0	0.0	-
8:17	0.1	0.1	8:17	0.0	0.0	-
8:18	0.1	0.1	8:18	0.0	0.0	-
8:19	0.1	0.1	8:19	0.0	0.0	-
8:20	0.1	0.1	8:20	0.0	0.0	-
8:21	0.2	0.1	8:21	0.0	0.0	-
8:22	0.1	0.1	8:22	0.0	0.0	-
8:23	0.2	0.1	8:23	0.0	0.0	-
8:24	0.2	0.1	8:24	0.0	0.0	-
8:25	0.2	0.1	8:25	0.0	0.0	-
8:26	0.2	0.1	8:26	0.0	0.0	-
8:27	0.2	0.1	8:27	0.0	0.0	-
8:28	0.2	0.1	8:28	0.0	0.0	-
8:29	0.2	0.1	8:29	0.0	0.0	-
8:30	0.2	0.2	8:30	0.0	0.0	-
8:31	0.2	0.2	8:31	0.0	0.0	-
8:32	0.2	0.2	8:32	0.0	0.0	-
8:33	0.2	0.2	8:33	0.0	0.0	-
8:34	0.2	0.2	8:34	0.0	0.0	-
8:35	0.2	0.2	8:35	0.0	0.0	-
8:36	0.2	0.2	8:36	0.0	0.0	-
8:37	0.2	0.2	8:37	0.0	0.0	-
8:38	0.2	0.2	8:38	0.0	0.0	-
8:39	0.2	0.2	8:39	0.0	0.0	-
8:40	0.2	0.2	8:40	0.0	0.0	-
8:41	0.2	0.2	8:41	0.0	0.0	-
8:42	0.2	0.2	8:42	0.0	0.0	-
8:43	0.2	0.2	8:43	0.0	0.0	-
8:44	0.2	0.2	8:44	0.0	0.0	-
8:45	0.2	0.2	8:45	0.0	0.0	-
8:46	0.2	0.2	8:46	0.0	0.0	-
8:47	0.2	0.2	8:47	0.0	0.0	-
8:48	0.2	0.2	8:48	0.0	0.0	-
8:49	0.2	0.2	8:49	0.0	0.0	-
8:50	0.2	0.2	8:50	0.0	0.0	-
8:51	0.2	0.2	8:51	0.0	0.0	-
8:52	0.2	0.2	8:52	0.0	0.0	-
8:53	0.2	0.2	8:53	0.0	0.0	-
8:54	0.2	0.2	8:54	0.0	0.0	-
8:55	0.2	0.2	8:55	0.0	0.0	-
8:56	0.2	0.2	8:56	0.0	0.0	-
8:57	0.2	0.2	8:57	0.0	0.0	-
8:58	0.2	0.2	8:58	0.0	0.0	-
8:59	0.2	0.2	8:59	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
9:00	0.2	0.2	9:00	0.0	0.0	-
9:01	0.2	0.2	9:01	0.0	0.0	-
9:02	0.2	0.2	9:02	0.0	0.0	-
9:03	0.2	0.2	9:03	0.0	0.0	-
9:04	0.2	0.2	9:04	0.0	0.0	-
9:05	0.2	0.2	9:05	0.0	0.0	-
9:06	0.2	0.2	9:06	0.0	0.0	-
9:07	0.2	0.2	9:07	0.0	0.0	-
9:08	0.2	0.2	9:08	0.0	0.0	-
9:09	0.2	0.2	9:09	0.0	0.0	-
9:10	0.2	0.2	9:10	0.0	0.0	-
9:11	0.2	0.2	9:11	0.0	0.0	-
9:12	0.2	0.2	9:12	0.0	0.0	-
9:13	0.2	0.2	9:13	0.0	0.0	-
9:14	0.2	0.2	9:14	0.0	0.0	-
9:15	0.2	0.2	9:15	0.0	0.0	-
9:16	0.2	0.2	9:16	0.0	0.0	-
9:17	0.2	0.2	9:17	0.0	0.0	-
9:18	0.2	0.2	9:18	0.0	0.0	-
9:19	0.2	0.2	9:19	0.0	0.0	-
9:20	0.2	0.2	9:20	0.0	0.0	-
9:21	0.2	0.2	9:21	0.0	0.0	-
9:22	0.2	0.2	9:22	0.0	0.0	-
9:23	0.2	0.2	9:23	0.0	0.0	-
9:24	0.2	0.2	9:24	0.0	0.0	-
9:25	0.2	0.2	9:25	0.0	0.0	-
9:26	0.2	0.2	9:26	0.0	0.0	-
9:27	0.2	0.2	9:27	0.0	0.0	-
9:28	0.2	0.2	9:28	0.0	0.0	-
9:29	0.2	0.2	9:29	0.0	0.0	-
9:30	0.2	0.2	9:30	0.0	0.0	-
9:31	0.2	0.2	9:31	0.0	0.0	-
9:32	0.2	0.2	9:32	0.0	0.0	-
9:33	0.2	0.2	9:33	0.0	0.0	-
9:34	0.2	0.2	9:34	0.0	0.0	-
9:35	0.2	0.2	9:35	0.0	0.0	-
9:36	0.2	0.2	9:36	0.0	0.0	-
9:37	0.2	0.2	9:37	0.0	0.0	-
9:38	0.2	0.2	9:38	0.0	0.0	-
9:39	0.2	0.2	9:39	0.0	0.0	-
9:40	0.2	0.2	9:40	0.0	0.0	-
9:41	0.2	0.2	9:41	0.0	0.0	-
9:42	0.2	0.2	9:42	0.0	0.0	-
9:43	0.2	0.2	9:43	0.0	0.0	-
9:44	0.2	0.2	9:44	0.0	0.0	-
9:45	0.2	0.2	9:45	0.0	0.0	-
9:46	0.2	0.2	9:46	0.0	0.0	-
9:47	0.2	0.2	9:47	0.0	0.0	-
9:48	0.2	0.2	9:48	0.0	0.0	-
9:49	0.2	0.2	9:49	0.0	0.0	-
9:50	0.2	0.2	9:50	0.0	0.0	-
9:51	0.2	0.2	9:51	0.0	0.0	-
9:52	0.2	0.2	9:52	0.0	0.0	-
9:53	0.2	0.2	9:53	0.0	0.0	-
9:54	0.2	0.2	9:54	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
9:55	0.2	0.2	9:55	0.0	0.0	-
9:56	0.2	0.2	9:56	0.0	0.0	-
9:57	0.2	0.2	9:57	0.0	0.0	-
9:58	0.3	0.2	9:58	0.0	0.0	-
9:59	0.3	0.2	9:59	0.0	0.0	-
10:00	0.2	0.2	10:00	0.0	0.0	-
10:01	0.2	0.2	10:01	0.0	0.0	-
10:02	0.2	0.2	10:02	0.0	0.0	-
10:03	0.3	0.2	10:03	0.0	0.0	-
10:04	0.3	0.2	10:04	0.0	0.0	-
10:05	0.3	0.3	10:05	0.0	0.0	-
10:06	0.3	0.3	10:06	0.0	0.0	-
10:07	0.2	0.3	10:07	0.0	0.0	-
10:08	0.2	0.3	10:08	0.0	0.0	-
10:09	0.2	0.3	10:09	0.0	0.0	-
10:10	0.2	0.3	10:10	0.0	0.0	-
10:11	0.2	0.3	10:11	0.0	0.0	-
10:12	0.2	0.3	10:12	0.0	0.0	-
10:13	0.2	0.3	10:13	0.0	0.0	-
10:14	0.2	0.3	10:14	0.0	0.0	-
10:15	0.2	0.3	10:15	0.0	0.0	-
10:16	0.2	0.3	10:16	0.0	0.0	-
10:17	0.2	0.3	10:17	0.0	0.0	-
10:18	0.2	0.2	10:18	0.0	0.0	-
10:19	0.2	0.2	10:19	0.0	0.0	-
10:20	0.2	0.2	10:20	0.0	0.0	-
10:21	0.2	0.2	10:21	0.0	0.0	-
10:22	0.2	0.2	10:22	0.0	0.0	-
10:23	0.2	0.2	10:23	0.0	0.0	-
10:24	0.2	0.2	10:24	0.0	0.0	-
10:25	0.2	0.2	10:25	0.0	0.0	-
10:26	0.2	0.2	10:26	0.0	0.0	-
10:27	0.2	0.2	10:27	0.0	0.0	-
10:28	0.2	0.2	10:28	0.0	0.0	-
10:29	0.2	0.2	10:29	0.0	0.0	-
10:30	0.2	0.2	10:30	0.0	0.0	-
10:31	0.2	0.2	10:31	0.0	0.0	-
10:32	0.3	0.2	10:32	0.0	0.0	-
10:33	0.3	0.2	10:33	0.0	0.0	-
10:34	0.3	0.2	10:34	0.0	0.0	-
10:35	0.3	0.2	10:35	0.0	0.0	-
10:36	0.3	0.2	10:36	0.0	0.0	-
10:37	0.3	0.2	10:37	0.0	0.0	-
10:38	0.3	0.2	10:38	0.0	0.0	-
10:39	0.2	0.2	10:39	0.0	0.0	-
10:40	0.3	0.2	10:40	0.0	0.0	-
10:41	0.3	0.2	10:41	0.0	0.0	-
10:42	0.3	0.3	10:42	0.0	0.0	-
10:43	0.3	0.3	10:43	0.0	0.0	-
10:44	0.3	0.3	10:44	0.0	0.0	-
10:45	0.3	0.3	10:45	0.0	0.0	-
10:46	0.3	0.3	10:46	0.0	0.0	-
10:47	0.3	0.3	10:47	0.0	0.0	-
10:48	0.3	0.3	10:48	0.0	0.0	-
10:49	0.3	0.3	10:49	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
10:50	0.3	0.3	10:50			
10:51	0.3	0.3	10:51			
10:52	0.3	0.3	10:52			
10:53	0.3	0.3	10:53			
10:54	0.3	0.3	10:54			
10:55	0.3	0.3	10:55			
10:56	0.3	0.3	10:56			
10:57	0.3	0.3	10:57			
10:58	0.3	0.3	10:58			
10:59	0.3	0.3	10:59			
11:00	0.3	0.3	11:00			
11:01	0.3	0.3	11:01			
11:02	0.3	0.3	11:02			
11:03	0.3	0.3	11:03			
11:04	0.3	0.3	11:04			
11:05	0.3	0.3	11:05			

Thursday, March 30, 2017						
Number of Instances Where Downwind Particulates Exceeds Upwind Particulate + 0.150 mg/m^3 =						0
Number of Comparable Data Points =						348
PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
9:51			9:51	0.009		
9:52			9:52	0.004		
9:53			9:53	0.003		
9:54			9:54	0.003		
9:55			9:55	0.003		
9:56			9:56	0.004		
9:57			9:57	0.004		
9:58			9:58	0.004		
9:59			9:59	0.004		
10:00			10:00	0.005		
10:01			10:01	0.004		
10:02			10:02	0.004		
10:03			10:03	0.003		
10:04			10:04	0.002		
10:05			10:05	0.002	0.004	
10:06			10:06	0.003	0.003	
10:07			10:07	0.003	0.003	
10:08			10:08	0.002	0.003	
10:09			10:09	0.003	0.003	
10:10			10:10	0.003	0.003	
10:11			10:11	0.003	0.003	
10:12			10:12	0.004	0.003	
10:13			10:13	0.003	0.003	
10:14			10:14	0.002	0.003	
10:15			10:15	0.004	0.003	
10:16			10:16	0.004	0.003	
10:17			10:17	0.004	0.003	
10:18			10:18	0.005	0.003	
10:19			10:19	0.004	0.003	
10:20			10:20	0.004	0.003	
10:21			10:21	0.003	0.003	
10:22			10:22	0.004	0.003	
10:23			10:23	0.004	0.004	
10:24			10:24	0.004	0.004	
10:25			10:25	0.004	0.004	
10:26			10:26	0.007	0.004	
10:27			10:27	0.010	0.004	
10:28			10:28	0.011	0.005	
10:29			10:29	0.014	0.006	
10:30			10:30	0.011	0.006	
10:31			10:31	0.009	0.007	
10:32			10:32	0.009	0.007	
10:33			10:33	0.007	0.007	
10:34			10:34	0.008	0.007	
10:35			10:35	0.009	0.008	
10:36			10:36	0.012	0.008	
10:37			10:37	0.009	0.009	
10:38			10:38	0.017	0.009	
10:39			10:39	0.008	0.010	
10:40			10:40	0.006	0.010	
10:41			10:41	0.007	0.010	
10:42			10:42	0.006	0.010	
10:43			10:43	0.007	0.009	

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
10:44			10:44	0.008	0.009	
10:45			10:45	0.009	0.009	
10:46			10:46	0.010	0.009	
10:47			10:47	0.010	0.009	
10:48			10:48	0.011	0.009	
10:49			10:49	0.008	0.009	
10:50			10:50	0.008	0.009	
10:51			10:51	0.009	0.009	
10:52			10:52	0.008	0.009	
10:53			10:53	0.008	0.008	
10:54			10:54	0.008	0.008	
10:55			10:55	0.009	0.008	
10:56			10:56	0.011	0.009	
10:57			10:57	0.009	0.009	
10:58			10:58	0.008	0.009	
10:59			10:59	0.008	0.009	
11:00			11:00	0.009	0.009	
11:01			11:01	0.008	0.009	
11:02			11:02	0.009	0.009	
11:03			11:03	0.008	0.009	
11:04			11:04	0.008	0.009	
11:05			11:05	0.008	0.009	
11:06			11:06	0.009	0.009	
11:07			11:07	0.009	0.009	
11:08			11:08	0.010	0.009	
11:09			11:09	0.010	0.009	
11:10			11:10	0.010	0.009	
11:11			11:11	0.010	0.009	
11:12			11:12	0.010	0.009	
11:13			11:13	0.011	0.009	
11:14			11:14	0.011	0.009	
11:15			11:15	0.012	0.010	
11:16			11:16	0.016	0.010	
11:17			11:17	0.047	0.013	
11:18			11:18	0.016	0.013	
11:19			11:19	0.009	0.013	
11:20			11:20	0.088	0.019	
11:21			11:21	0.017	0.019	
11:22			11:22	0.011	0.019	
11:23			11:23	0.025	0.020	
11:24			11:24	0.027	0.021	
11:25			11:25	0.023	0.022	
11:26			11:26	0.010	0.022	
11:27			11:27	0.045	0.025	
11:28			11:28	0.013	0.025	
11:29			11:29	0.016	0.025	
11:30			11:30	0.029	0.026	
11:31			11:31	0.039	0.028	
11:32			11:32	0.020	0.026	
11:33			11:33	0.016	0.026	
11:34			11:34	0.014	0.026	
11:35			11:35	0.012	0.021	
11:36			11:36	0.011	0.021	
11:37			11:37	0.011	0.021	
11:38			11:38	0.012	0.020	
11:39			11:39	0.012	0.019	

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
11:40			11:40	0.012	0.018	
11:41			11:41	0.017	0.019	
11:42			11:42	0.013	0.016	
11:43			11:43	0.014	0.017	
11:44			11:44	0.013	0.016	
11:45			11:45	0.012	0.015	
11:46			11:46	0.115	0.020	
11:47			11:47	0.170	0.030	
11:48			11:48	0.014	0.030	
11:49			11:49	0.014	0.030	
11:50			11:50	0.017	0.030	
11:51			11:51	0.016	0.031	
11:52			11:52	0.015	0.031	
11:53			11:53	0.012	0.031	
11:54			11:54	0.011	0.031	
11:55			11:55	0.012	0.031	
11:56			11:56	0.013	0.031	
11:57			11:57	0.012	0.031	
11:58	0.016	0.016	11:58	0.013	0.031	-
11:59	0.013	0.015	11:59	0.020	0.031	-
12:00	0.018	0.016	12:00	0.013	0.031	-
12:01	0.016	0.016	12:01	0.012	0.024	-
12:02	0.012	0.015	12:02	0.011	0.014	-
12:03	0.011	0.014	12:03	0.011	0.013	-
12:04	0.010	0.014	12:04	0.011	0.013	-
12:05	0.009	0.013	12:05	0.012	0.013	-
12:06	0.010	0.013	12:06	0.011	0.013	-
12:07	0.014	0.013	12:07	0.011	0.012	-
12:08	0.011	0.013	12:08	0.011	0.012	-
12:09	0.009	0.012	12:09	0.011	0.012	-
12:10	0.009	0.012	12:10	0.011	0.012	-
12:11	0.009	0.012	12:11	0.010	0.012	-
12:12	0.009	0.012	12:12	0.011	0.012	-
12:13	0.010	0.011	12:13	0.011	0.012	-
12:14	0.011	0.011	12:14	0.011	0.011	-
12:15	0.011	0.011	12:15	0.014	0.011	-
12:16	0.015	0.011	12:16	0.015	0.011	-
12:17	0.011	0.011	12:17	0.013	0.012	-
12:18	0.009	0.010	12:18	0.012	0.012	-
12:19	0.010	0.010	12:19	0.012	0.012	-
12:20	0.010	0.011	12:20	0.012	0.012	-
12:21	0.009	0.010	12:21	0.012	0.012	-
12:22	0.009	0.010	12:22	0.012	0.012	-
12:23	0.009	0.010	12:23	0.012	0.012	-
12:24	0.010	0.010	12:24	0.012	0.012	-
12:25	0.010	0.010	12:25	0.012	0.012	-
12:26	0.010	0.010	12:26	0.012	0.012	-
12:27	0.009	0.010	12:27	0.012	0.012	-
12:28	0.010	0.010	12:28	0.012	0.012	-
12:29	0.010	0.010	12:29	0.012	0.012	-
12:30	0.009	0.010	12:30	0.012	0.012	-
12:31	0.010	0.010	12:31	0.013	0.012	-
12:32	0.010	0.010	12:32	0.017	0.012	-
12:33	0.010	0.010	12:33	0.017	0.013	-
12:34	0.010	0.010	12:34	0.018	0.013	-
12:35	0.010	0.010	12:35	0.013	0.013	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
12:36	0.010	0.010	12:36	0.015	0.013	-
12:37	0.010	0.010	12:37	0.016	0.014	-
12:38	0.009	0.010	12:38	0.013	0.014	-
12:39	0.009	0.010	12:39	0.013	0.014	-
12:40	0.009	0.010	12:40	0.015	0.014	-
12:41	0.010	0.010	12:41	0.014	0.014	-
12:42	0.009	0.010	12:42	0.014	0.014	-
12:43	0.009	0.010	12:43	0.014	0.014	-
12:44	0.009	0.010	12:44	0.014	0.015	-
12:45	0.009	0.010	12:45	0.014	0.015	-
12:46	0.010	0.010	12:46	0.014	0.015	-
12:47	0.010	0.010	12:47	0.014	0.015	-
12:48	0.016	0.010	12:48	0.014	0.014	-
12:49	0.011	0.010	12:49	0.014	0.014	-
12:50	0.009	0.010	12:50	0.013	0.014	-
12:51	0.009	0.010	12:51	0.013	0.014	-
12:52	0.009	0.010	12:52	0.014	0.014	-
12:53	0.010	0.010	12:53	0.013	0.014	-
12:54	0.013	0.010	12:54	0.014	0.014	-
12:55	0.036	0.012	12:55	0.014	0.014	-
12:56	0.011	0.012	12:56	0.014	0.014	-
12:57	0.010	0.012	12:57	0.014	0.014	-
12:58	0.010	0.012	12:58	0.015	0.014	-
12:59	0.015	0.013	12:59	0.018	0.014	-
13:00	0.018	0.013	13:00	0.018	0.014	-
13:01	0.015	0.013	13:01	0.017	0.015	-
13:02	0.012	0.014	13:02	0.015	0.015	-
13:03	0.010	0.013	13:03	0.015	0.015	-
13:04	0.013	0.013	13:04	0.018	0.015	-
13:05	0.016	0.014	13:05	0.017	0.015	-
13:06	0.016	0.014	13:06	0.019	0.016	-
13:07	0.019	0.015	13:07	0.018	0.016	-
13:08	0.021	0.016	13:08	0.021	0.016	-
13:09	0.015	0.016	13:09	0.024	0.017	-
13:10	0.014	0.014	13:10	0.022	0.018	-
13:11	0.014	0.015	13:11	0.019	0.018	-
13:12	0.014	0.015	13:12	0.018	0.018	-
13:13	0.014	0.015	13:13	0.020	0.019	-
13:14	0.014	0.015	13:14	0.021	0.019	-
13:15	0.016	0.015	13:15	0.020	0.019	-
13:16	0.015	0.015	13:16	0.021	0.019	-
13:17	0.014	0.015	13:17	0.023	0.020	-
13:18	0.012	0.015	13:18	0.069	0.023	-
13:19	0.010	0.015	13:19	0.049	0.025	-
13:20	0.016	0.015	13:20	0.025	0.026	-
13:21	0.010	0.015	13:21	0.018	0.026	-
13:22	0.010	0.014	13:22	0.018	0.026	-
13:23	0.013	0.013	13:23	0.032	0.027	-
13:24	0.015	0.013	13:24	0.022	0.026	-
13:25	0.026	0.014	13:25	0.046	0.028	-
13:26	0.011	0.014	13:26	0.040	0.029	-
13:27	0.017	0.014	13:27	0.033	0.030	-
13:28	0.042	0.016	13:28	0.030	0.031	-
13:29	0.022	0.017	13:29	0.068	0.034	-
13:30	0.022	0.017	13:30	0.083	0.038	-
13:31	0.021	0.017	13:31	0.027	0.039	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
13:32	0.023	0.018	13:32	0.035	0.040	-
13:33	0.029	0.019	13:33	0.053	0.039	-
13:34	0.025	0.020	13:34	0.031	0.037	-
13:35	0.016	0.020	13:35	0.021	0.037	-
13:36	0.018	0.021	13:36	0.017	0.037	-
13:37	0.011	0.021	13:37	0.020	0.037	-
13:38	0.010	0.021	13:38	0.019	0.036	-
13:39	0.010	0.020	13:39	0.018	0.036	-
13:40	0.011	0.019	13:40	0.018	0.034	-
13:41	0.011	0.019	13:41	0.020	0.033	-
13:42	0.011	0.019	13:42	0.018	0.032	-
13:43	0.012	0.017	13:43	0.019	0.031	-
13:44	0.015	0.016	13:44	0.033	0.029	-
13:45	0.014	0.016	13:45	0.026	0.025	-
13:46	0.014	0.015	13:46	0.068	0.028	-
13:47	0.012	0.015	13:47	0.025	0.027	-
13:48	0.011	0.013	13:48	0.041	0.026	-
13:49	0.023	0.013	13:49	0.082	0.030	-
13:50	0.013	0.013	13:50	0.078	0.033	-
13:51	0.045	0.015	13:51	0.070	0.037	-
13:52	0.065	0.018	13:52	0.024	0.037	-
13:53	0.014	0.019	13:53	0.038	0.039	-
13:54	0.013	0.019	13:54	0.022	0.039	-
13:55	0.074	0.023	13:55	0.022	0.039	-
13:56	0.137	0.032	13:56	0.023	0.039	-
13:57	0.143	0.040	13:57	0.021	0.039	-
13:58	0.034	0.042	13:58	0.021	0.040	-
13:59	0.015	0.042	13:59	0.022	0.039	-
14:00	0.015	0.042	14:00	0.022	0.039	-
14:01	0.016	0.042	14:01	0.029	0.036	-
14:02	0.015	0.042	14:02	0.062	0.038	-
14:03	0.015	0.042	14:03	0.051	0.039	-
14:04	0.013	0.042	14:04	0.029	0.036	-
14:05	0.012	0.042	14:05	0.023	0.032	-
14:06	0.012	0.040	14:06	0.022	0.029	-
14:07	0.014	0.036	14:07	0.046	0.030	-
14:08	0.016	0.036	14:08	0.081	0.033	-
14:09	0.014	0.036	14:09	0.120	0.040	-
14:10	0.018	0.033	14:10	0.055	0.042	-
14:11	0.014	0.024	14:11	0.053	0.044	-
14:12	0.015	0.016	14:12	0.027	0.044	-
14:13	0.013	0.014	14:13	0.024	0.044	-
14:14	0.018	0.015	14:14	0.065	0.047	-
14:15	0.018	0.015	14:15	0.041	0.049	-
14:16	0.015	0.015	14:16	0.043	0.049	-
14:17	0.025	0.015	14:17	0.025	0.047	-
14:18	0.034	0.017	14:18	0.022	0.045	-
14:19	0.020	0.017	14:19	0.024	0.045	-
14:20	0.017	0.018	14:20	0.032	0.045	-
14:21	0.024	0.018	14:21	0.037	0.046	-
14:22	0.082	0.023	14:22	0.030	0.045	-
14:23	0.081	0.027	14:23	0.029	0.042	-
14:24	0.098	0.033	14:24	0.048	0.037	-
14:25	0.032	0.034	14:25	0.035	0.036	-
14:26	0.038	0.035	14:26	0.022	0.034	-
14:27	0.017	0.035	14:27	0.021	0.033	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
14:28	0.024	0.036	14:28	0.019	0.033	-
14:29	0.024	0.037	14:29	0.019	0.030	-
14:30	0.012	0.036	14:30	0.018	0.028	-
14:31	0.012	0.036	14:31	0.017	0.027	-
14:32	0.014	0.035	14:32	0.017	0.026	-
14:33	0.016	0.034	14:33	0.020	0.026	-
14:34	0.015	0.034	14:34	0.021	0.026	-
14:35	0.016	0.034	14:35	0.022	0.025	-
14:36	0.016	0.033	14:36	0.024	0.024	-
14:37	0.014	0.029	14:37	0.022	0.024	-
14:38	0.014	0.024	14:38	0.019	0.023	-
14:39	0.013	0.018	14:39	0.019	0.021	-
14:40	0.014	0.017	14:40	0.020	0.020	-
14:41	0.015	0.016	14:41	0.020	0.020	-
14:42	0.015	0.016	14:42	0.021	0.020	-
14:43	0.014	0.015	14:43	0.024	0.020	-
14:44	0.015	0.014	14:44	0.029	0.021	-
14:45	0.016	0.015	14:45	0.027	0.021	-
14:46	0.015	0.015	14:46	0.021	0.022	-
14:47	0.015	0.015	14:47	0.021	0.022	-
14:48	0.015	0.015	14:48	0.020	0.022	-
14:49	0.015	0.015	14:49	0.021	0.022	-
14:50	0.017	0.015	14:50	0.029	0.022	-
14:51	0.016	0.015	14:51	0.024	0.022	-
14:52	0.017	0.015	14:52	0.023	0.023	-
14:53	0.020	0.015	14:53	0.024	0.023	-
14:54	0.016	0.016	14:54	0.024	0.023	-
14:55	0.017	0.016	14:55	0.023	0.023	-
14:56	0.017	0.016	14:56	0.023	0.024	-
14:57	0.016	0.016	14:57	0.026	0.024	-
14:58	0.015	0.016	14:58	0.031	0.024	-
14:59	0.015	0.016	14:59	0.021	0.024	-
15:00	0.016	0.016	15:00	0.022	0.024	-
15:01	0.016	0.016	15:01	0.021	0.024	-
15:02	0.015	0.016	15:02	0.024	0.024	-
15:03	0.015	0.016	15:03	0.022	0.024	-
15:04	0.016	0.016	15:04	0.022	0.024	-
15:05	0.016	0.016	15:05	0.025	0.024	-
15:06	0.016	0.016	15:06	0.024	0.024	-
15:07	0.016	0.016	15:07	0.022	0.024	-
15:08	0.016	0.016	15:08	0.024	0.024	-
15:09	0.017	0.016	15:09	0.026	0.024	-
15:10	0.016	0.016	15:10	0.024	0.024	-
15:11	0.015	0.016	15:11	0.032	0.024	-
15:12	0.015	0.016	15:12	0.045	0.026	-
15:13	0.017	0.016	15:13	0.028	0.025	-
15:14	0.016	0.016	15:14	0.026	0.026	-
15:15	0.016	0.016	15:15	0.024	0.026	-
15:16	0.017	0.016	15:16	0.025	0.026	-
15:17	0.016	0.016	15:17	0.023	0.026	-
15:18	0.015	0.016	15:18	0.025	0.026	-
15:19	0.016	0.016	15:19	0.024	0.026	-
15:20	0.016	0.016	15:20	0.020	0.026	-
15:21	0.015	0.016	15:21	0.019	0.026	-
15:22	0.014	0.016	15:22	0.020	0.026	-
15:23	0.014	0.016	15:23	0.044	0.027	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
15:24	0.014	0.015	15:24	0.036	0.028	-
15:25	0.014	0.015	15:25	0.029	0.028	-
15:26	0.018	0.016	15:26	0.041	0.029	-
15:27	0.015	0.016	15:27	0.042	0.028	-
15:28	0.020	0.016	15:28	0.035	0.029	-
15:29	0.024	0.016	15:29	0.020	0.028	-
15:30	0.019	0.016	15:30	0.021	0.028	-
15:31	0.019	0.017	15:31	0.032	0.029	-
15:32	0.018	0.017	15:32	0.026	0.029	-
15:33	0.018	0.017	15:33	0.024	0.029	-
15:34	0.019	0.017	15:34	0.025	0.029	-
15:35	0.018	0.017	15:35	0.026	0.029	-
15:36	0.019	0.018	15:36	0.021	0.029	-
15:37	0.018	0.018	15:37	0.021	0.030	-
15:38	0.017	0.018	15:38	0.024	0.028	-
15:39	0.017	0.018	15:39	0.026	0.028	-
15:40	0.017	0.018	15:40	0.023	0.027	-
15:41	0.018	0.018	15:41	0.028	0.026	-
15:42	0.017	0.019	15:42	0.033	0.026	-
15:43	0.018	0.018	15:43	0.030	0.025	-
15:44	0.017	0.018	15:44	0.029	0.026	-
15:45	0.017	0.018	15:45	0.026	0.026	-
15:46	0.016	0.018	15:46	0.026	0.026	-
15:47	0.016	0.017	15:47	0.023	0.026	-
15:48	0.016	0.017	15:48	0.027	0.026	-
15:49	0.017	0.017	15:49	0.024	0.026	-
15:50	0.017	0.017	15:50	0.023	0.026	-
15:51	0.018	0.017	15:51	0.022	0.026	-
15:52	0.018	0.017	15:52	0.023	0.026	-
15:53	0.018	0.017	15:53	0.023	0.026	-
15:54	0.017	0.017	15:54	0.023	0.026	-
15:55	0.016	0.017	15:55	0.021	0.025	-
15:56	0.017	0.017	15:56	0.021	0.025	-
15:57	0.017	0.017	15:57	0.021	0.024	-
15:58	0.016	0.017	15:58	0.024	0.024	-
15:59	0.016	0.017	15:59	0.024	0.023	-
16:00	0.015	0.017	16:00	0.022	0.023	-
16:01	0.015	0.017	16:01	0.027	0.023	-
16:02	0.015	0.017	16:02	0.025	0.023	-
16:03	0.016	0.017	16:03	0.024	0.023	-
16:04	0.016	0.016	16:04	0.023	0.023	-
16:05	0.016	0.016	16:05	0.022	0.023	-
16:06	0.016	0.016	16:06	0.022	0.023	-
16:07	0.016	0.016	16:07	0.023	0.023	-
16:08	0.016	0.016	16:08	0.023	0.023	-
16:09	0.017	0.016	16:09	0.023	0.023	-
16:10	0.019	0.016	16:10	0.023	0.023	-
16:11	0.017	0.016	16:11	0.022	0.023	-
16:12	0.016	0.016	16:12	0.021	0.023	-
16:13	0.016	0.016	16:13	0.025	0.023	-
16:14	0.016	0.016	16:14	0.020	0.023	-
16:15	0.016	0.016	16:15	0.020	0.023	-
16:16	0.016	0.016	16:16	0.023	0.023	-
16:17	0.017	0.016	16:17	0.023	0.022	-
16:18	0.016	0.016	16:18	0.022	0.022	-
16:19	0.017	0.016	16:19	0.020	0.022	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
16:20	0.017	0.017	16:20	0.042	0.023	-
16:21	0.017	0.017	16:21	0.022	0.023	-
16:22	0.017	0.017	16:22	0.022	0.023	-
16:23	0.017	0.017	16:23	0.024	0.023	-
16:24	0.018	0.017	16:24	0.023	0.023	-
16:25	0.018	0.017	16:25	0.021	0.023	-
16:26	0.017	0.017	16:26	0.022	0.023	-
16:27	0.016	0.017	16:27	0.021	0.023	-
16:28	0.016	0.017	16:28	0.020	0.023	-
16:29	0.016	0.017	16:29	0.022	0.023	-
16:30	0.017	0.017	16:30	0.020	0.023	-
16:31	0.017	0.017	16:31	0.020	0.023	-
16:32	0.017	0.017	16:32	0.021	0.023	-
16:33	0.017	0.017	16:33	0.020	0.023	-
16:34	0.017	0.017	16:34	0.021	0.023	-
16:35	0.017	0.017	16:35	0.021	0.021	-
16:36	0.017	0.017	16:36	0.021	0.021	-
16:37	0.018	0.017	16:37	0.020	0.021	-
16:38	0.017	0.017	16:38	0.020	0.021	-
16:39	0.019	0.017	16:39	0.019	0.021	-
16:40	0.018	0.017	16:40	0.020	0.021	-
16:41	0.017	0.017	16:41	0.020	0.020	-
16:42	0.017	0.017	16:42	0.020	0.020	-
16:43	0.018	0.017	16:43	0.020	0.020	-
16:44	0.017	0.017	16:44	0.021	0.020	-
16:45	0.017	0.017	16:45	0.021	0.020	-
16:46	0.017	0.017	16:46	0.023	0.021	-
16:47	0.017	0.017	16:47	0.020	0.020	-
16:48	0.018	0.017	16:48	0.021	0.021	-
16:49	0.019	0.018	16:49	0.021	0.021	-
16:50	0.019	0.018	16:50	0.026	0.021	-
16:51	0.019	0.018	16:51	0.022	0.021	-
16:52	0.019	0.018	16:52	0.022	0.021	-
16:53	0.020	0.018	16:53	0.023	0.021	-
16:54	0.019	0.018	16:54	0.028	0.022	-
16:55	0.022	0.018	16:55	0.021	0.022	-
16:56	0.019	0.018	16:56	0.023	0.022	-
16:57	0.019	0.019	16:57	0.043	0.024	-
16:58	0.018	0.019	16:58	0.024	0.024	-
16:59	0.017	0.019	16:59	0.022	0.024	-
17:00	0.017	0.019	17:00	0.022	0.024	-
17:01	0.018	0.019	17:01	0.020	0.024	-
17:02	0.018	0.019	17:02	0.018	0.024	-
17:03	0.017	0.019	17:03	0.018	0.024	-
17:04	0.017	0.019	17:04	0.019	0.023	-
17:05	0.016	0.018	17:05	0.019	0.023	-
17:06	0.016	0.018	17:06	0.022	0.023	-
17:07	0.017	0.018	17:07	0.018	0.023	-
17:08	0.017	0.018	17:08	0.021	0.023	-
17:09	0.017	0.018	17:09	0.020	0.022	-
17:10	0.018	0.017	17:10	0.016	0.022	-
17:11	0.015	0.017	17:11	0.016	0.021	-
17:12	0.016	0.017	17:12	0.017	0.019	-
17:13	0.015	0.017	17:13	0.016	0.019	-
17:14	0.015	0.017	17:14	0.016	0.019	-
17:15	0.016	0.017	17:15	0.017	0.018	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
17:16	0.016	0.016	17:16	0.016	0.018	-
17:17	0.016	0.016	17:17	0.017	0.018	-
17:18	0.017	0.016	17:18	0.018	0.018	-
17:19	0.017	0.016	17:19	0.021	0.018	-
17:20	0.016	0.016	17:20	0.020	0.018	-
17:21	0.016	0.016	17:21	0.020	0.018	-
17:22	0.016	0.016	17:22	0.017	0.018	-
17:23	0.018	0.016	17:23	0.023	0.018	-
17:24	0.016	0.016	17:24	0.018	0.018	-
17:25	0.016	0.016	17:25	0.019	0.018	-
17:26	0.014	0.016	17:26	0.015	0.018	-
17:27	0.014	0.016	17:27	0.016	0.018	-
17:28	0.014	0.016	17:28	0.016	0.018	-
17:29	0.014	0.016	17:29	0.019	0.018	-
17:30	0.014	0.016	17:30	0.023	0.019	-
17:31	0.014	0.015	17:31	0.033	0.020	-
17:32	0.014	0.015	17:32	0.030	0.021	-
17:33	0.016	0.015	17:33	0.029	0.021	-
17:34	0.022	0.016	17:34	0.039	0.022	-
17:35	0.018	0.016	17:35	0.046	0.024	-
17:36	0.028	0.017	17:36	0.026	0.025	-
17:37	0.024	0.017	17:37	0.019	0.025	-
17:38	0.017	0.017	17:38	0.032	0.025	-
17:39	0.016	0.017	17:39	0.018	0.025	-
17:40	0.016	0.017	17:40	0.017	0.025	-
17:41	0.015	0.017	17:41	0.018	0.025	-
17:42	0.015	0.017	17:42	0.018	0.026	-
17:43	0.015	0.017	17:43	0.018	0.026	-
17:44	0.014	0.017	17:44	0.017	0.026	-
17:45	0.014	0.017	17:45	0.017	0.025	-
17:46			17:46	0.016	0.024	
17:47			17:47	0.018	0.023	

Thursday, March 30, 2017						
Number of Instances Where Downwind VOCs Exceeds Upwind VOCs + 5 ppm =						0
Number of Comparable Data Points =						246
PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
9:51			9:51	0.0		
9:52			9:52	0.0		
9:53			9:53	0.0		
9:54			9:54	0.0		
9:55			9:55	0.0		
9:56			9:56	0.0		
9:57			9:57	0.0		
9:58			9:58	0.0		
9:59			9:59	0.0		
10:00			10:00	0.0		
10:01			10:01	0.0		
10:02			10:02	0.1		
10:03			10:03	0.2		
10:04			10:04	0.3		
10:05			10:05	0.4	0.1	
10:06			10:06	0.5	0.1	
10:07			10:07	0.5	0.1	
10:08			10:08	0.6	0.2	
10:09			10:09	0.6	0.2	
10:10			10:10	0.6	0.3	
10:11			10:11	0.6	0.3	
10:12			10:12	0.6	0.3	
10:13			10:13	0.6	0.4	
10:14			10:14	1.3	0.5	
10:15			10:15	0.5	0.5	
10:16			10:16	0.4	0.5	
10:17			10:17	0.3	0.5	
10:18			10:18	0.3	0.5	
10:19			10:19	0.3	0.5	
10:20			10:20	0.3	0.5	
10:21			10:21	0.3	0.5	
10:22			10:22	0.3	0.5	
10:23			10:23	0.2	0.5	
10:24			10:24	0.2	0.5	
10:25			10:25	0.1	0.4	
10:26			10:26	0.0	0.4	
10:27			10:27	0.0	0.3	
10:28			10:28	0.0	0.3	
10:29			10:29	0.0	0.2	
10:30			10:30	0.0	0.2	
10:31			10:31	0.0	0.2	
10:32			10:32	0.0	0.1	
10:33			10:33	0.0	0.1	
10:34			10:34	0.0	0.1	
10:35			10:35	0.0	0.1	
10:36			10:36	0.0	0.1	
10:37			10:37	0.0	0.0	
10:38			10:38	0.0	0.0	
10:39			10:39	0.0	0.0	
10:40			10:40	0.0	0.0	
10:41			10:41	0.0	0.0	
10:42			10:42	0.0	0.0	

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
10:43			10:43	0.0	0.0	
10:44			10:44	0.0	0.0	
10:45			10:45	0.0	0.0	
10:46			10:46	0.0	0.0	
10:47			10:47	0.0	0.0	
10:48			10:48	0.0	0.0	
10:49			10:49	0.0	0.0	
10:50			10:50	0.0	0.0	
10:51			10:51	0.0	0.0	
10:52			10:52	0.0	0.0	
10:53			10:53	0.0	0.0	
10:54			10:54	0.0	0.0	
10:55			10:55	0.0	0.0	
10:56			10:56	0.0	0.0	
10:57			10:57	0.0	0.0	
10:58			10:58	0.0	0.0	
10:59			10:59	0.0	0.0	
11:00			11:00	0.0	0.0	
11:01			11:01	0.0	0.0	
11:02			11:02	0.0	0.0	
11:03			11:03	0.0	0.0	
11:04			11:04	0.0	0.0	
11:05			11:05	0.0	0.0	
11:06			11:06	0.0	0.0	
11:07			11:07	0.0	0.0	
11:08			11:08	0.0	0.0	
11:09			11:09	0.0	0.0	
11:10			11:10	0.0	0.0	
11:11			11:11	0.0	0.0	
11:12			11:12	0.0	0.0	
11:13			11:13	0.0	0.0	
11:14			11:14	0.0	0.0	
11:15			11:15	0.0	0.0	
11:16			11:16	0.0	0.0	
11:17			11:17	0.0	0.0	
11:18			11:18	0.0	0.0	
11:19			11:19	0.0	0.0	
11:20			11:20	0.0	0.0	
11:21			11:21	0.0	0.0	
11:22			11:22	0.0	0.0	
11:23			11:23	0.0	0.0	
11:24			11:24	0.0	0.0	
11:25			11:25	0.0	0.0	
11:26			11:26	0.0	0.0	
11:27			11:27	0.0	0.0	
11:28			11:28	0.0	0.0	
11:29			11:29	0.0	0.0	
11:30			11:30	0.0	0.0	
11:31			11:31	0.0	0.0	
11:32			11:32	0.0	0.0	
11:33			11:33	0.0	0.0	
11:34			11:34	0.0	0.0	
11:35			11:35	0.0	0.0	
11:36			11:36	0.0	0.0	
11:37			11:37	0.0	0.0	

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
11:38			11:38	0.0	0.0	
11:39			11:39	0.0	0.0	
11:40			11:40	0.0	0.0	
11:41			11:41	0.0	0.0	
11:42			11:42	0.0	0.0	
11:43			11:43	0.0	0.0	
11:44			11:44	0.0	0.0	
11:45			11:45	0.0	0.0	
11:46			11:46	0.0	0.0	
11:47			11:47	0.0	0.0	
11:48			11:48	0.0	0.0	
11:49			11:49	0.0	0.0	
11:50			11:50	0.0	0.0	
11:51			11:51	0.0	0.0	
11:52			11:52	0.0	0.0	
11:53			11:53	0.0	0.0	
11:54			11:54	0.0	0.0	
11:55			11:55	0.0	0.0	
11:56			11:56	0.0	0.0	
11:57			11:57	0.0	0.0	
11:58			11:58	0.0	0.0	
11:59			11:59	0.0	0.0	
12:00			12:00	0.0	0.0	
12:01			12:01	0.0	0.0	
12:02			12:02	0.0	0.0	
12:03			12:03	0.0	0.0	
12:04			12:04	0.0	0.0	
12:05			12:05	0.0	0.0	
12:06			12:06	0.0	0.0	
12:07			12:07	0.0	0.0	
12:08			12:08	0.0	0.0	
12:09			12:09	0.0	0.0	
12:10			12:10	0.0	0.0	
12:11			12:11	0.0	0.0	
12:12			12:12	0.0	0.0	
12:13			12:13	0.0	0.0	
12:14			12:14	0.0	0.0	
12:15			12:15	0.0	0.0	
12:16			12:16	0.0	0.0	
12:17			12:17	0.0	0.0	
12:18			12:18	0.0	0.0	
12:19			12:19	0.0	0.0	
12:20			12:20	0.0	0.0	
12:21			12:21	0.0	0.0	
12:22			12:22	0.0	0.0	
12:23			12:23	0.0	0.0	
12:24			12:24	0.0	0.0	
12:25			12:25	0.0	0.0	
12:26			12:26	0.0	0.0	
12:27			12:27	0.0	0.0	
12:28			12:28	0.0	0.0	
12:29			12:29	0.0	0.0	
12:30			12:30	0.0	0.0	
12:31			12:31	0.0	0.0	
12:32			12:32	0.0	0.0	

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
12:33			12:33	0.0	0.0	
12:34			12:34	0.0	0.0	
12:35			12:35	0.0	0.0	
12:36			12:36	0.0	0.0	
12:37			12:37	0.0	0.0	
12:38			12:38	0.0	0.0	
12:39			12:39	0.0	0.0	
12:40			12:40	0.0	0.0	
12:41			12:41	0.0	0.0	
12:42			12:42	0.0	0.0	
12:43			12:43	0.0	0.0	
12:44			12:44	0.0	0.0	
12:45			12:45	0.0	0.0	
12:46			12:46	0.0	0.0	
12:47			12:47	0.0	0.0	
12:48			12:48	0.0	0.0	
12:49			12:49	0.0	0.0	
12:50			12:50	0.0	0.0	
12:51			12:51	0.0	0.0	
12:52			12:52	0.0	0.0	
12:53			12:53	0.0	0.0	
12:54			12:54	0.0	0.0	
12:55			12:55	0.0	0.0	
12:56			12:56	0.0	0.0	
12:57			12:57	0.0	0.0	
12:58			12:58	0.0	0.0	
12:59			12:59	0.0	0.0	
13:00			13:00	0.0	0.0	
13:01			13:01	0.0	0.0	
13:02			13:02	0.0	0.0	
13:03			13:03	0.0	0.0	
13:04			13:04	0.0	0.0	
13:05			13:05	0.0	0.0	
13:06			13:06	0.0	0.0	
13:07			13:07	0.0	0.0	
13:08			13:08	0.0	0.0	
13:09			13:09	0.0	0.0	
13:10			13:10	0.0	0.0	
13:11			13:11	0.0	0.0	
13:12			13:12	0.0	0.0	
13:13			13:13	0.0	0.0	
13:14			13:14	0.0	0.0	
13:15			13:15	0.0	0.0	
13:16			13:16	0.0	0.0	
13:17			13:17	0.0	0.0	
13:18			13:18	0.0	0.0	
13:19			13:19	0.0	0.0	
13:20	0.0		13:20	0.0	0.0	
13:21	0.0		13:21	0.0	0.0	
13:22	0.0		13:22	0.0	0.0	
13:23	0.0		13:23	0.0	0.0	
13:24	0.0		13:24	0.0	0.0	
13:25	0.0		13:25	0.0	0.0	
13:26	0.0		13:26	0.0	0.0	
13:27	0.0		13:27	0.0	0.0	

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
13:28	0.0		13:28	0.0	0.0	
13:29	0.0		13:29	0.0	0.0	
13:30	0.0		13:30	0.0	0.0	
13:31	0.0		13:31	0.0	0.0	
13:32	0.0		13:32	0.0	0.0	
13:33	0.0		13:33	0.0	0.0	
13:34	0.0	0.0	13:34	0.0	0.0	-
13:35	0.0	0.0	13:35	0.0	0.0	-
13:36	0.0	0.0	13:36	0.0	0.0	-
13:37	0.0	0.0	13:37	0.0	0.0	-
13:38	0.0	0.0	13:38	0.0	0.0	-
13:39	0.0	0.0	13:39	0.0	0.0	-
13:40	0.0	0.0	13:40	0.0	0.0	-
13:41	0.0	0.0	13:41	0.0	0.0	-
13:42	0.0	0.0	13:42	0.0	0.0	-
13:43	0.0	0.0	13:43	0.0	0.0	-
13:44	0.0	0.0	13:44	0.0	0.0	-
13:45	0.0	0.0	13:45	0.0	0.0	-
13:46	0.0	0.0	13:46	0.0	0.0	-
13:47	0.0	0.0	13:47	0.0	0.0	-
13:48	0.0	0.0	13:48	0.0	0.0	-
13:49	0.0	0.0	13:49	0.0	0.0	-
13:50	0.0	0.0	13:50	0.0	0.0	-
13:51	0.0	0.0	13:51	0.0	0.0	-
13:52	0.0	0.0	13:52	0.0	0.0	-
13:53	0.0	0.0	13:53	0.0	0.0	-
13:54	0.0	0.0	13:54	0.0	0.0	-
13:55	0.0	0.0	13:55	0.0	0.0	-
13:56	0.0	0.0	13:56	0.0	0.0	-
13:57	0.0	0.0	13:57	0.0	0.0	-
13:58	0.0	0.0	13:58	0.0	0.0	-
13:59	0.0	0.0	13:59	0.0	0.0	-
14:00	0.0	0.0	14:00	0.0	0.0	-
14:01	0.0	0.0	14:01	0.0	0.0	-
14:02	0.0	0.0	14:02	0.0	0.0	-
14:03	0.0	0.0	14:03	0.0	0.0	-
14:04	0.0	0.0	14:04	0.0	0.0	-
14:05	0.0	0.0	14:05	0.0	0.0	-
14:06	0.0	0.0	14:06	0.0	0.0	-
14:07	0.0	0.0	14:07	0.0	0.0	-
14:08	0.0	0.0	14:08	0.0	0.0	-
14:09	0.0	0.0	14:09	0.0	0.0	-
14:10	0.0	0.0	14:10	0.0	0.0	-
14:11	0.0	0.0	14:11	0.0	0.0	-
14:12	0.1	0.0	14:12	0.1	0.0	-
14:13	0.0	0.0	14:13	0.0	0.0	-
14:14	0.0	0.0	14:14	0.0	0.0	-
14:15	0.0	0.0	14:15	0.0	0.0	-
14:16	0.0	0.0	14:16	0.0	0.0	-
14:17	0.0	0.0	14:17	0.0	0.0	-
14:18	0.2	0.0	14:18	0.0	0.0	-
14:19	0.0	0.0	14:19	0.0	0.0	-
14:20	0.1	0.0	14:20	0.0	0.0	-
14:21	0.0	0.0	14:21	0.0	0.0	-
14:22	0.1	0.0	14:22	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
14:23	0.0	0.0	14:23	0.0	0.0	-
14:24	0.0	0.0	14:24	0.0	0.0	-
14:25	0.0	0.0	14:25	0.0	0.0	-
14:26	0.0	0.0	14:26	0.0	0.0	-
14:27	0.0	0.0	14:27	0.0	0.0	-
14:28	0.0	0.0	14:28	0.0	0.0	-
14:29	0.0	0.0	14:29	0.0	0.0	-
14:30	0.0	0.0	14:30	0.0	0.0	-
14:31	0.0	0.0	14:31	0.0	0.0	-
14:32	0.0	0.0	14:32	0.0	0.0	-
14:33	0.0	0.0	14:33	0.0	0.0	-
14:34	0.0	0.0	14:34	0.0	0.0	-
14:35	0.0	0.0	14:35	0.0	0.0	-
14:36	0.0	0.0	14:36	0.0	0.0	-
14:37	0.0	0.0	14:37	0.0	0.0	-
14:38	0.0	0.0	14:38	0.0	0.0	-
14:39	0.0	0.0	14:39	0.0	0.0	-
14:40	0.0	0.0	14:40	0.0	0.0	-
14:41	0.0	0.0	14:41	0.0	0.0	-
14:42	0.0	0.0	14:42	0.0	0.0	-
14:43	0.0	0.0	14:43	0.0	0.0	-
14:44	0.0	0.0	14:44	0.0	0.0	-
14:45	0.0	0.0	14:45	0.0	0.0	-
14:46	0.0	0.0	14:46	0.0	0.0	-
14:47	0.0	0.0	14:47	0.0	0.0	-
14:48	0.0	0.0	14:48	0.0	0.0	-
14:49	0.0	0.0	14:49	0.0	0.0	-
14:50	0.0	0.0	14:50	0.0	0.0	-
14:51	0.0	0.0	14:51	0.0	0.0	-
14:52	0.0	0.0	14:52	0.0	0.0	-
14:53	0.0	0.0	14:53	0.0	0.0	-
14:54	0.0	0.0	14:54	0.0	0.0	-
14:55	0.0	0.0	14:55	0.0	0.0	-
14:56	0.0	0.0	14:56	0.0	0.0	-
14:57	0.0	0.0	14:57	0.0	0.0	-
14:58	0.0	0.0	14:58	0.0	0.0	-
14:59	0.0	0.0	14:59	0.0	0.0	-
15:00	0.0	0.0	15:00	0.0	0.0	-
15:01	0.0	0.0	15:01	0.0	0.0	-
15:02	0.0	0.0	15:02	0.0	0.0	-
15:03	0.0	0.0	15:03	0.0	0.0	-
15:04	0.0	0.0	15:04	0.0	0.0	-
15:05	0.0	0.0	15:05	0.0	0.0	-
15:06	0.0	0.0	15:06	0.0	0.0	-
15:07	0.0	0.0	15:07	0.0	0.0	-
15:08	0.0	0.0	15:08	0.0	0.0	-
15:09	0.0	0.0	15:09	0.0	0.0	-
15:10	0.0	0.0	15:10	0.0	0.0	-
15:11	0.0	0.0	15:11	0.0	0.0	-
15:12	0.0	0.0	15:12	0.0	0.0	-
15:13	0.0	0.0	15:13	0.0	0.0	-
15:14	0.0	0.0	15:14	0.0	0.0	-
15:15	0.0	0.0	15:15	0.0	0.0	-
15:16	0.0	0.0	15:16	0.0	0.0	-
15:17	0.0	0.0	15:17	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
15:18	0.0	0.0	15:18	0.0	0.0	-
15:19	0.0	0.0	15:19	0.0	0.0	-
15:20	0.0	0.0	15:20	0.0	0.0	-
15:21	0.0	0.0	15:21	0.0	0.0	-
15:22	0.0	0.0	15:22	0.0	0.0	-
15:23	0.0	0.0	15:23	0.0	0.0	-
15:24	0.0	0.0	15:24	0.0	0.0	-
15:25	0.0	0.0	15:25	0.0	0.0	-
15:26	0.0	0.0	15:26	0.0	0.0	-
15:27	0.0	0.0	15:27	0.0	0.0	-
15:28	0.0	0.0	15:28	0.0	0.0	-
15:29	0.0	0.0	15:29	0.0	0.0	-
15:30	0.0	0.0	15:30	0.0	0.0	-
15:31	0.0	0.0	15:31	0.0	0.0	-
15:32	0.0	0.0	15:32	0.0	0.0	-
15:33	0.0	0.0	15:33	0.0	0.0	-
15:34	0.0	0.0	15:34	0.0	0.0	-
15:35	0.0	0.0	15:35	0.0	0.0	-
15:36	0.0	0.0	15:36	0.0	0.0	-
15:37	0.0	0.0	15:37	0.0	0.0	-
15:38	0.0	0.0	15:38	0.0	0.0	-
15:39	0.0	0.0	15:39	0.0	0.0	-
15:40	0.0	0.0	15:40	0.0	0.0	-
15:41	0.0	0.0	15:41	0.0	0.0	-
15:42	0.0	0.0	15:42	0.0	0.0	-
15:43	0.0	0.0	15:43	0.0	0.0	-
15:44	0.0	0.0	15:44	0.0	0.0	-
15:45	0.0	0.0	15:45	0.0	0.0	-
15:46	0.0	0.0	15:46	0.0	0.0	-
15:47	0.0	0.0	15:47	0.0	0.0	-
15:48	0.0	0.0	15:48	0.0	0.0	-
15:49	0.0	0.0	15:49	0.0	0.0	-
15:50	0.0	0.0	15:50	0.0	0.0	-
15:51	0.0	0.0	15:51	0.0	0.0	-
15:52	0.0	0.0	15:52	0.0	0.0	-
15:53	0.0	0.0	15:53	0.0	0.0	-
15:54	0.0	0.0	15:54	0.0	0.0	-
15:55	0.0	0.0	15:55	0.0	0.0	-
15:56	0.0	0.0	15:56	0.0	0.0	-
15:57	0.0	0.0	15:57	0.0	0.0	-
15:58	0.0	0.0	15:58	0.0	0.0	-
15:59	0.0	0.0	15:59	0.0	0.0	-
16:00	0.0	0.0	16:00	0.0	0.0	-
16:01	0.0	0.0	16:01	0.0	0.0	-
16:02	0.0	0.0	16:02	0.0	0.0	-
16:03	0.0	0.0	16:03	0.0	0.0	-
16:04	0.0	0.0	16:04	0.0	0.0	-
16:05	0.0	0.0	16:05	0.0	0.0	-
16:06	0.0	0.0	16:06	0.0	0.0	-
16:07	0.0	0.0	16:07	0.0	0.0	-
16:08	0.0	0.0	16:08	0.0	0.0	-
16:09	0.0	0.0	16:09	0.0	0.0	-
16:10	0.0	0.0	16:10	0.0	0.0	-
16:11	0.0	0.0	16:11	0.0	0.0	-
16:12	0.0	0.0	16:12	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
16:13	0.0	0.0	16:13	0.0	0.0	-
16:14	0.0	0.0	16:14	0.0	0.0	-
16:15	0.0	0.0	16:15	0.0	0.0	-
16:16	0.0	0.0	16:16	0.0	0.0	-
16:17	0.0	0.0	16:17	0.0	0.0	-
16:18	0.0	0.0	16:18	0.0	0.0	-
16:19	0.0	0.0	16:19	0.0	0.0	-
16:20	0.0	0.0	16:20	0.0	0.0	-
16:21	0.0	0.0	16:21	0.0	0.0	-
16:22	0.0	0.0	16:22	0.0	0.0	-
16:23	0.0	0.0	16:23	0.0	0.0	-
16:24	0.0	0.0	16:24	0.0	0.0	-
16:25	0.0	0.0	16:25	0.0	0.0	-
16:26	0.0	0.0	16:26	0.0	0.0	-
16:27	0.0	0.0	16:27	0.0	0.0	-
16:28	0.0	0.0	16:28	0.0	0.0	-
16:29	0.0	0.0	16:29	0.0	0.0	-
16:30	0.0	0.0	16:30	0.0	0.0	-
16:31	0.0	0.0	16:31	0.0	0.0	-
16:32	0.0	0.0	16:32	0.0	0.0	-
16:33	0.0	0.0	16:33	0.0	0.0	-
16:34	0.0	0.0	16:34	0.0	0.0	-
16:35	0.0	0.0	16:35	0.0	0.0	-
16:36	0.0	0.0	16:36	0.0	0.0	-
16:37	0.0	0.0	16:37	0.0	0.0	-
16:38	0.0	0.0	16:38	0.0	0.0	-
16:39	0.0	0.0	16:39	0.0	0.0	-
16:40	0.0	0.0	16:40	0.0	0.0	-
16:41	0.0	0.0	16:41	0.0	0.0	-
16:42	0.0	0.0	16:42	0.0	0.0	-
16:43	0.0	0.0	16:43	0.0	0.0	-
16:44	0.0	0.0	16:44	0.0	0.0	-
16:45	0.0	0.0	16:45	0.0	0.0	-
16:46	0.0	0.0	16:46	0.0	0.0	-
16:47	0.0	0.0	16:47	0.0	0.0	-
16:48	0.0	0.0	16:48	0.0	0.0	-
16:49	0.0	0.0	16:49	0.0	0.0	-
16:50	0.0	0.0	16:50	0.0	0.0	-
16:51	0.0	0.0	16:51	0.0	0.0	-
16:52	0.0	0.0	16:52	0.0	0.0	-
16:53	0.0	0.0	16:53	0.0	0.0	-
16:54	0.0	0.0	16:54	0.0	0.0	-
16:55	0.0	0.0	16:55	0.0	0.0	-
16:56	0.0	0.0	16:56	0.0	0.0	-
16:57	0.0	0.0	16:57	0.0	0.0	-
16:58	0.0	0.0	16:58	0.0	0.0	-
16:59	0.0	0.0	16:59	0.0	0.0	-
17:00	0.0	0.0	17:00	0.0	0.0	-
17:01	0.0	0.0	17:01	0.0	0.0	-
17:02	0.0	0.0	17:02	0.0	0.0	-
17:03	0.0	0.0	17:03	0.0	0.0	-
17:04	0.0	0.0	17:04	0.0	0.0	-
17:05	0.0	0.0	17:05	0.0	0.0	-
17:06	0.0	0.0	17:06	0.0	0.0	-
17:07	0.0	0.0	17:07	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
17:08	0.0	0.0	17:08	0.0	0.0	-
17:09	0.0	0.0	17:09	0.0	0.0	-
17:10	0.0	0.0	17:10	0.0	0.0	-
17:11	0.0	0.0	17:11	0.0	0.0	-
17:12	0.0	0.0	17:12	0.0	0.0	-
17:13	0.0	0.0	17:13	0.0	0.0	-
17:14	0.0	0.0	17:14	0.0	0.0	-
17:15	0.0	0.0	17:15	0.0	0.0	-
17:16	0.0	0.0	17:16	0.0	0.0	-
17:17	0.0	0.0	17:17	0.0	0.0	-
17:18	0.0	0.0	17:18	0.0	0.0	-
17:19	0.0	0.0	17:19	0.0	0.0	-
17:20	0.0	0.0	17:20	0.0	0.0	-
17:21	0.0	0.0	17:21	0.0	0.0	-
17:22	0.0	0.0	17:22	0.2	0.0	-
17:23	0.0	0.0	17:23	0.0	0.0	-
17:24	0.0	0.0	17:24	0.4	0.0	-
17:25	0.0	0.0	17:25	0.0	0.0	-
17:26	0.0	0.0	17:26	3.2	0.3	-
17:27	0.0	0.0	17:27	3.7	0.5	-
17:28	0.0	0.0	17:28	0.2	0.5	-
17:29	0.0	0.0	17:29	0.0	0.5	-
17:30	0.0	0.0	17:30	0.0	0.5	-
17:31	0.0	0.0	17:31	0.0	0.5	-
17:32	0.0	0.0	17:32	0.0	0.5	-
17:33	0.0	0.0	17:33	0.0	0.5	-
17:34	0.0	0.0	17:34	0.0	0.5	-
17:35	0.0	0.0	17:35	0.0	0.5	-
17:36	0.0	0.0	17:36	0.0	0.5	-
17:37	0.0	0.0	17:37	0.0	0.5	-
17:38	0.0	0.0	17:38	0.0	0.5	-
17:39	0.0	0.0	17:39	0.0	0.5	-
17:40			17:40	0.0	0.5	
17:41			17:41	0.0	0.3	
17:42			17:42	0.0	0.0	
17:43			17:43	0.0	0.0	
17:44			17:44	0.0	0.0	
17:45			17:45	0.0	0.0	
17:46			17:46	0.0	0.0	
17:47			17:47	0.0	0.0	
17:48			17:48	0.0	0.0	
17:49			17:49	0.0	0.0	
17:50			17:50	0.0	0.0	

Monday, April 03, 2017						
Number of Instances Where Downwind Particulates Exceeds Upwind Particulate + 0.150 mg/m^3 =						35
Number of Comparable Data Points =						568
PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
7:50	0.045		7:50			
7:51	0.042		7:51			
7:52	0.041		7:52	0.043		
7:53	0.033		7:53	0.037		
7:54	0.032		7:54	0.036		
7:55	0.035		7:55	0.033		
7:56	0.051		7:56	0.032		
7:57	0.040		7:57	0.029		
7:58	0.049		7:58	0.028		
7:59	0.028		7:59	0.027		
8:00	0.020		8:00	0.026		
8:01	0.024		8:01	0.025		
8:02	0.025		8:02	0.025		
8:03	0.027		8:03	0.025		
8:04	0.026	0.035	8:04	0.024		
8:05	0.021	0.033	8:05	0.024		
8:06	0.025	0.032	8:06	0.025	0.029	-
8:07	0.025	0.031	8:07	0.026	0.028	-
8:08	0.025	0.030	8:08	0.028	0.028	-
8:09	0.031	0.030	8:09	0.027	0.027	-
8:10	0.030	0.030	8:10	0.022	0.026	-
8:11	0.024	0.028	8:11	0.021	0.025	-
8:12	0.023	0.027	8:12	0.016	0.025	-
8:13	0.018	0.025	8:13	0.017	0.024	-
8:14	0.021	0.024	8:14	0.018	0.023	-
8:15	0.021	0.024	8:15	0.021	0.023	-
8:16	0.027	0.025	8:16	0.026	0.023	-
8:17	0.030	0.025	8:17	0.027	0.023	-
8:18	0.037	0.026	8:18	0.027	0.023	-
8:19	0.032	0.026	8:19	0.026	0.023	-
8:20	0.032	0.027	8:20	0.028	0.024	-
8:21	0.032	0.027	8:21	0.031	0.024	-
8:22	0.041	0.028	8:22	0.034	0.025	-
8:23	0.046	0.030	8:23	0.046	0.026	-
8:24	0.040	0.030	8:24	0.047	0.027	-
8:25	0.038	0.031	8:25	0.045	0.029	-
8:26	0.036	0.032	8:26	0.041	0.030	-
8:27	0.036	0.032	8:27	0.040	0.032	-
8:28	0.039	0.034	8:28	0.043	0.033	-
8:29	0.038	0.035	8:29	0.044	0.035	-
8:30	0.039	0.036	8:30	0.044	0.037	-
8:31	0.040	0.037	8:31	0.047	0.038	-
8:32	0.042	0.038	8:32	0.047	0.039	-
8:33	0.044	0.038	8:33	0.045	0.041	-
8:34	0.045	0.039	8:34	0.044	0.042	-
8:35	0.043	0.040	8:35	0.046	0.043	-
8:36	0.046	0.041	8:36	0.049	0.044	-
8:37	0.047	0.041	8:37	0.050	0.045	-
8:38	0.047	0.041	8:38	0.053	0.046	-
8:39	0.047	0.042	8:39	0.056	0.046	-
8:40	0.048	0.042	8:40	0.055	0.047	-
8:41	0.048	0.043	8:41	0.049	0.047	-
8:42	0.046	0.044	8:42	0.049	0.048	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
8:43	0.045	0.044	8:43	0.050	0.049	-
8:44	0.043	0.045	8:44	0.049	0.049	-
8:45	0.044	0.045	8:45	0.045	0.049	-
8:46	0.044	0.045	8:46	0.045	0.049	-
8:47	0.046	0.046	8:47	0.045	0.049	-
8:48	0.044	0.046	8:48	0.046	0.049	-
8:49	0.042	0.045	8:49	0.045	0.049	-
8:50	0.037	0.045	8:50	0.046	0.049	-
8:51	0.037	0.044	8:51	0.045	0.049	-
8:52	0.039	0.044	8:52	0.050	0.049	-
8:53	0.037	0.043	8:53	0.070	0.050	-
8:54	0.039	0.043	8:54	0.047	0.049	-
8:55	0.040	0.042	8:55	0.046	0.048	-
8:56	0.036	0.041	8:56	0.047	0.048	-
8:57	0.037	0.041	8:57	0.046	0.048	-
8:58	0.037	0.040	8:58	0.045	0.048	-
8:59	0.038	0.040	8:59	0.046	0.048	-
9:00	0.036	0.039	9:00	0.049	0.048	-
9:01	0.034	0.039	9:01	0.043	0.048	-
9:02	0.035	0.038	9:02	0.038	0.047	-
9:03	0.035	0.037	9:03	0.039	0.047	-
9:04	0.035	0.037	9:04	0.037	0.046	-
9:05	0.034	0.037	9:05	0.037	0.046	-
9:06	0.034	0.036	9:06	0.035	0.045	-
9:07	0.033	0.036	9:07	0.049	0.045	-
9:08	0.033	0.036	9:08	0.041	0.043	-
9:09	0.034	0.035	9:09	0.041	0.043	-
9:10	0.033	0.035	9:10	0.039	0.042	-
9:11	0.031	0.035	9:11	0.088	0.045	-
9:12	0.041	0.035	9:12	0.120	0.050	-
9:13	0.031	0.034	9:13	0.042	0.050	-
9:14	0.055	0.036	9:14	0.037	0.049	-
9:15	0.040	0.036	9:15	0.035	0.048	-
9:16	0.033	0.036	9:16	0.034	0.047	-
9:17	0.032	0.036	9:17	0.034	0.047	-
9:18	0.034	0.036	9:18	0.064	0.049	-
9:19	0.034	0.035	9:19	0.172	0.058	-
9:20	0.035	0.036	9:20	0.077	0.061	-
9:21	0.035	0.036	9:21	0.144	0.068	-
9:22	0.029	0.035	9:22	0.407	0.092	-
9:23	0.027	0.035	9:23	0.239	0.105	-
9:24	0.028	0.035	9:24	0.235	0.118	-
9:25	0.028	0.034	9:25	0.063	0.119	-
9:26	0.026	0.034	9:26	0.040	0.116	-
9:27	0.023	0.033	9:27	0.040	0.111	-
9:28	0.038	0.033	9:28	0.043	0.111	-
9:29	0.042	0.032	9:29	0.040	0.111	-
9:30	0.055	0.033	9:30	0.038	0.111	-
9:31	0.054	0.035	9:31	0.051	0.112	-
9:32	0.044	0.035	9:32	0.078	0.115	-
9:33	0.046	0.036	9:33	0.059	0.115	-
9:34	0.048	0.037	9:34	0.064	0.108	-
9:35	0.049	0.038	9:35	0.063	0.107	-
9:36	0.051	0.039	9:36	0.067	0.102	-
9:37	0.052	0.041	9:37	0.068	0.079	-
9:38	0.054	0.043	9:38	0.074	0.068	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
9:39	0.053	0.044	9:39	0.070	0.057	-
9:40	0.054	0.046	9:40	0.065	0.057	-
9:41	0.055	0.048	9:41	0.090	0.061	-
9:42	0.050	0.050	9:42	0.075	0.063	-
9:43	0.063	0.051	9:43	0.059	0.064	-
9:44	0.052	0.052	9:44	0.058	0.065	-
9:45	0.050	0.052	9:45	0.103	0.070	-
9:46	0.052	0.052	9:46	0.063	0.070	-
9:47	0.048	0.052	9:47	0.063	0.069	-
9:48	0.055	0.052	9:48	0.056	0.069	-
9:49	0.047	0.052	9:49	0.058	0.069	-
9:50	0.044	0.052	9:50	0.053	0.068	-
9:51	0.045	0.052	9:51	0.053	0.067	-
9:52	0.046	0.051	9:52	0.087	0.068	-
9:53	0.043	0.050	9:53	0.065	0.068	-
9:54	0.043	0.050	9:54	0.052	0.067	-
9:55	0.043	0.049	9:55	0.052	0.066	-
9:56	0.042	0.048	9:56	0.051	0.063	-
9:57	0.065	0.049	9:57	0.068	0.063	-
9:58	0.069	0.050	9:58	0.065	0.063	-
9:59	0.052	0.050	9:59	0.048	0.062	-
10:00	0.052	0.050	10:00	0.054	0.059	-
10:01	0.047	0.049	10:01	0.059	0.059	-
10:02	0.047	0.049	10:02	0.063	0.059	-
10:03	0.032	0.048	10:03	0.046	0.058	-
10:04	0.020	0.046	10:04	0.063	0.059	-
10:05	0.015	0.044	10:05	0.056	0.059	-
10:06	0.013	0.042	10:06	0.034	0.058	-
10:07	0.012	0.040	10:07	0.029	0.054	-
10:08	0.011	0.038	10:08	0.029	0.051	-
10:09	0.010	0.035	10:09	0.023	0.049	-
10:10	0.009	0.033	10:10	0.020	0.047	-
10:11	0.009	0.031	10:11	0.019	0.045	-
10:12	0.009	0.027	10:12	0.020	0.042	-
10:13	0.008	0.023	10:13	0.019	0.039	-
10:14	0.008	0.020	10:14	0.017	0.037	-
10:15	0.008	0.017	10:15	0.023	0.035	-
10:16	0.007	0.015	10:16	0.020	0.032	-
10:17	0.009	0.012	10:17	0.022	0.029	-
10:18	0.011	0.011	10:18	0.022	0.028	-
10:19	0.009	0.010	10:19	0.024	0.025	-
10:20	0.008	0.009	10:20	0.023	0.023	-
10:21	0.009	0.009	10:21	0.494	0.054	-
10:22	0.008	0.009	10:22	0.330	0.074	-
10:23	0.009	0.009	10:23	0.043	0.075	-
10:24	0.009	0.009	10:24	0.239	0.089	-
10:25	0.011	0.009	10:25	1.000	0.154	-
10:26	0.011	0.009	10:26	0.071	0.158	-
10:27	0.009	0.009	10:27	0.052	0.160	X
10:28	0.008	0.009	10:28	0.940	0.221	X
10:29	0.009	0.009	10:29	0.179	0.232	X
10:30	0.009	0.009	10:30	0.090	0.237	X
10:31	0.008	0.009	10:31	0.073	0.240	X
10:32	0.009	0.009	10:32	0.094	0.245	X
10:33	0.009	0.009	10:33	0.130	0.252	X
10:34	0.010	0.009	10:34	0.043	0.253	X

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
10:35	0.009	0.009	10:35	0.025	0.254	X
10:36	0.008	0.009	10:36	0.019	0.222	X
10:37	0.009	0.009	10:37	0.020	0.201	X
10:38	0.010	0.009	10:38	0.020	0.200	X
10:39	0.009	0.009	10:39	0.028	0.186	X
10:40	0.008	0.009	10:40	0.094	0.125	-
10:41	0.007	0.009	10:41	0.031	0.123	-
10:42	0.008	0.009	10:42	0.047	0.122	-
10:43	0.007	0.009	10:43	0.038	0.062	-
10:44	0.007	0.008	10:44	0.024	0.052	-
10:45	0.006	0.008	10:45	0.129	0.054	-
10:46	0.005	0.008	10:46	0.050	0.053	-
10:47	0.006	0.008	10:47	0.048	0.050	-
10:48	0.006	0.008	10:48	0.018	0.042	-
10:49	0.005	0.007	10:49	0.024	0.041	-
10:50	0.008	0.007	10:50	0.019	0.041	-
10:51	0.006	0.007	10:51	0.020	0.041	-
10:52	0.006	0.007	10:52	0.028	0.041	-
10:53	0.005	0.007	10:53	0.024	0.041	-
10:54	0.006	0.006	10:54	0.036	0.042	-
10:55	0.007	0.006	10:55	0.070	0.040	-
10:56	0.006	0.006	10:56	0.044	0.041	-
10:57	0.006	0.006	10:57	0.041	0.041	-
10:58	0.006	0.006	10:58	0.032	0.040	-
10:59	0.004	0.006	10:59	0.029	0.041	-
11:00	0.005	0.006	11:00	0.026	0.034	-
11:01	0.006	0.006	11:01	0.040	0.033	-
11:02	0.006	0.006	11:02	0.028	0.032	-
11:03	0.005	0.006	11:03	0.049	0.034	-
11:04	0.004	0.006	11:04	0.036	0.035	-
11:05	0.005	0.006	11:05	0.018	0.035	-
11:06	0.005	0.005	11:06	0.024	0.035	-
11:07	0.005	0.005	11:07	0.020	0.034	-
11:08	0.005	0.005	11:08	0.020	0.034	-
11:09	0.005	0.005	11:09	0.018	0.033	-
11:10	0.004	0.005	11:10	0.016	0.029	-
11:11	0.006	0.005	11:11	0.020	0.028	-
11:12	0.004	0.005	11:12	0.017	0.026	-
11:13	0.004	0.005	11:13	0.033	0.026	-
11:14	0.004	0.005	11:14	0.036	0.027	-
11:15	0.005	0.005	11:15	0.044	0.028	-
11:16	0.005	0.005	11:16	0.030	0.027	-
11:17	0.005	0.005	11:17	0.029	0.027	-
11:18	0.006	0.005	11:18	0.018	0.025	-
11:19	0.006	0.005	11:19	0.021	0.024	-
11:20	0.004	0.005	11:20	0.018	0.024	-
11:21	0.006	0.005	11:21	0.018	0.024	-
11:22	0.004	0.005	11:22	0.020	0.024	-
11:23	0.004	0.005	11:23	0.017	0.024	-
11:24	0.004	0.005	11:24	0.017	0.024	-
11:25	0.004	0.005	11:25	0.018	0.024	-
11:26	0.004	0.005	11:26	0.024	0.024	-
11:27	0.007	0.005	11:27	0.020	0.024	-
11:28	0.005	0.005	11:28	0.025	0.024	-
11:29	0.005	0.005	11:29	0.018	0.022	-
11:30	0.005	0.005	11:30	0.031	0.022	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
11:31	0.004	0.005	11:31	0.036	0.022	-
11:32	0.006	0.005	11:32	0.045	0.023	-
11:33	0.006	0.005	11:33	0.024	0.023	-
11:34	0.005	0.005	11:34	0.051	0.025	-
11:35	0.005	0.005	11:35	0.027	0.026	-
11:36	0.004	0.005	11:36	0.030	0.027	-
11:37	0.005	0.005	11:37	0.029	0.027	-
11:38	0.004	0.005	11:38	0.029	0.028	-
11:39	0.005	0.005	11:39	0.031	0.029	-
11:40	0.005	0.005	11:40	0.028	0.030	-
11:41	0.007	0.005	11:41	0.029	0.030	-
11:42	0.006	0.005	11:42	0.019	0.030	-
11:43	0.005	0.005	11:43	0.018	0.030	-
11:44	0.007	0.005	11:44	0.023	0.030	-
11:45	0.007	0.005	11:45	0.023	0.029	-
11:46	0.005	0.005	11:46	0.021	0.028	-
11:47	0.005	0.005	11:47	0.024	0.027	-
11:48	0.006	0.005	11:48	0.019	0.027	-
11:49	0.007	0.006	11:49	0.018	0.025	-
11:50	0.005	0.006	11:50	0.025	0.024	-
11:51	0.005	0.006	11:51	0.024	0.024	-
11:52	0.005	0.006	11:52	0.023	0.024	-
11:53	0.005	0.006	11:53	0.024	0.023	-
11:54	0.006	0.006	11:54	0.021	0.023	-
11:55	0.005	0.006	11:55	0.020	0.022	-
11:56	0.005	0.006	11:56	0.034	0.022	-
11:57	0.005	0.006	11:57	0.033	0.023	-
11:58	0.004	0.005	11:58	0.020	0.023	-
11:59	0.005	0.005	11:59	0.019	0.023	-
12:00	0.006	0.005	12:00	0.019	0.023	-
12:01	0.006	0.005	12:01	0.022	0.023	-
12:02	0.007	0.005	12:02	0.022	0.023	-
12:03	0.008	0.006	12:03	0.021	0.023	-
12:04	0.006	0.006	12:04	0.020	0.023	-
12:05	0.007	0.006	12:05	0.020	0.023	-
12:06	0.006	0.006	12:06	0.019	0.022	-
12:07	0.005	0.006	12:07	0.018	0.022	-
12:08	0.005	0.006	12:08	0.018	0.022	-
12:09	0.006	0.006	12:09	0.019	0.022	-
12:10	0.007	0.006	12:10	0.018	0.021	-
12:11	0.005	0.006	12:11	0.017	0.020	-
12:12	0.005	0.006	12:12	0.017	0.019	-
12:13	0.005	0.006	12:13	0.017	0.019	-
12:14	0.005	0.006	12:14	0.017	0.019	-
12:15	0.005	0.006	12:15	0.020	0.019	-
12:16	0.011	0.006	12:16	0.021	0.019	-
12:17	0.006	0.006	12:17	0.020	0.019	-
12:18	0.005	0.006	12:18	0.018	0.019	-
12:19	0.006	0.006	12:19	0.019	0.019	-
12:20	0.005	0.006	12:20	0.018	0.018	-
12:21	0.006	0.006	12:21	0.019	0.018	-
12:22	0.005	0.006	12:22	0.018	0.018	-
12:23	0.005	0.006	12:23	0.017	0.018	-
12:24	0.006	0.006	12:24	0.020	0.018	-
12:25	0.009	0.006	12:25	0.022	0.019	-
12:26	0.006	0.006	12:26	0.020	0.019	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
12:27	0.005	0.006	12:27	0.019	0.019	-
12:28	0.005	0.006	12:28	0.019	0.019	-
12:29	0.006	0.006	12:29	0.022	0.019	-
12:30	0.006	0.006	12:30	0.020	0.019	-
12:31	0.005	0.006	12:31	0.018	0.019	-
12:32	0.005	0.006	12:32	0.019	0.019	-
12:33	0.006	0.006	12:33	0.021	0.019	-
12:34	0.006	0.006	12:34	0.019	0.019	-
12:35	0.006	0.006	12:35	0.020	0.020	-
12:36	0.005	0.006	12:36	0.020	0.020	-
12:37	0.005	0.006	12:37	0.021	0.020	-
12:38	0.005	0.006	12:38	0.020	0.020	-
12:39	0.005	0.006	12:39	0.021	0.020	-
12:40	0.005	0.005	12:40	0.022	0.020	-
12:41	0.006	0.005	12:41	0.018	0.020	-
12:42	0.005	0.005	12:42	0.019	0.020	-
12:43	0.006	0.005	12:43	0.021	0.020	-
12:44	0.006	0.005	12:44	0.020	0.020	-
12:45	0.005	0.005	12:45	0.020	0.020	-
12:46	0.005	0.005	12:46	0.024	0.020	-
12:47	0.005	0.005	12:47	0.020	0.020	-
12:48	0.005	0.005	12:48	0.023	0.021	-
12:49	0.005	0.005	12:49	0.020	0.021	-
12:50	0.006	0.005	12:50	0.019	0.021	-
12:51	0.006	0.005	12:51	0.023	0.021	-
12:52	0.006	0.005	12:52	0.019	0.021	-
12:53	0.005	0.005	12:53	0.024	0.021	-
12:54	0.005	0.005	12:54	0.020	0.021	-
12:55	0.005	0.005	12:55	0.020	0.021	-
12:56	0.005	0.005	12:56	0.019	0.021	-
12:57	0.005	0.005	12:57	0.017	0.021	-
12:58	0.005	0.005	12:58	0.019	0.020	-
12:59	0.005	0.005	12:59	0.018	0.020	-
13:00	0.005	0.005	13:00	0.022	0.020	-
13:01	0.005	0.005	13:01	0.019	0.020	-
13:02	0.006	0.005	13:02	0.032	0.021	-
13:03	0.005	0.005	13:03	0.022	0.021	-
13:04	0.006	0.005	13:04	0.035	0.022	-
13:05	0.005	0.005	13:05	0.025	0.022	-
13:06	0.006	0.005	13:06	0.018	0.022	-
13:07	0.005	0.005	13:07	0.019	0.022	-
13:08	0.006	0.005	13:08	0.022	0.022	-
13:09	0.005	0.005	13:09	0.035	0.023	-
13:10	0.006	0.005	13:10	0.033	0.024	-
13:11	0.007	0.005	13:11	0.025	0.024	-
13:12	0.007	0.006	13:12	0.025	0.025	-
13:13	0.007	0.006	13:13	0.022	0.025	-
13:14	0.007	0.006	13:14	0.046	0.027	-
13:15	0.007	0.006	13:15	0.029	0.027	-
13:16	0.007	0.006	13:16	0.021	0.027	-
13:17	0.009	0.006	13:17	0.023	0.027	-
13:18	0.008	0.007	13:18	0.027	0.027	-
13:19	0.010	0.007	13:19	0.062	0.029	-
13:20	0.008	0.007	13:20	0.031	0.029	-
13:21	0.008	0.007	13:21	0.020	0.029	-
13:22	0.007	0.007	13:22	0.025	0.030	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
13:23	0.007	0.007	13:23	0.026	0.030	-
13:24	0.008	0.008	13:24	0.026	0.029	-
13:25	0.008	0.008	13:25	0.042	0.030	-
13:26	0.007	0.008	13:26	0.033	0.031	-
13:27	0.007	0.008	13:27	0.039	0.031	-
13:28	0.007	0.008	13:28	0.064	0.034	-
13:29	0.008	0.008	13:29	0.307	0.052	-
13:30	0.009	0.008	13:30	0.105	0.057	-
13:31	0.007	0.008	13:31	0.202	0.069	-
13:32	0.007	0.008	13:32	0.628	0.109	-
13:33	0.009	0.008	13:33	0.229	0.123	-
13:34	0.007	0.008	13:34	0.142	0.128	-
13:35	0.008	0.008	13:35	0.055	0.130	-
13:36	0.009	0.008	13:36	0.037	0.131	-
13:37	0.006	0.008	13:37	0.125	0.137	-
13:38	0.006	0.008	13:38	0.060	0.140	-
13:39	0.007	0.007	13:39	0.111	0.145	-
13:40	0.007	0.007	13:40	0.063	0.147	-
13:41	0.008	0.007	13:41	0.268	0.162	X
13:42	0.011	0.008	13:42	0.102	0.167	X
13:43	0.007	0.008	13:43	0.097	0.169	X
13:44	0.008	0.008	13:44	0.032	0.150	-
13:45	0.008	0.008	13:45	0.089	0.149	-
13:46	0.007	0.008	13:46	0.056	0.140	-
13:47	0.007	0.008	13:47	0.487	0.130	-
13:48	0.008	0.008	13:48	0.153	0.125	-
13:49	0.008	0.008	13:49	0.168	0.127	-
13:50	0.007	0.008	13:50	0.256	0.140	-
13:51	0.007	0.007	13:51	0.106	0.145	-
13:52	0.007	0.008	13:52	0.145	0.146	-
13:53	0.006	0.008	13:53	0.214	0.156	-
13:54	0.007	0.008	13:54	0.140	0.158	X
13:55	0.006	0.007	13:55	0.345	0.177	X
13:56	0.006	0.007	13:56	0.130	0.168	X
13:57	0.008	0.007	13:57	0.164	0.172	X
13:58	0.008	0.007	13:58	0.295	0.185	X
13:59	0.008	0.007	13:59	0.161	0.194	X
14:00	0.006	0.007	14:00	0.254	0.205	X
14:01	0.006	0.007	14:01	0.109	0.208	X
14:02	0.007	0.007	14:02	0.225	0.191	X
14:03	0.007	0.007	14:03	0.103	0.188	X
14:04	0.007	0.007	14:04	0.210	0.190	X
14:05	0.008	0.007	14:05	0.111	0.181	X
14:06	0.007	0.007	14:06	0.036	0.176	X
14:07	0.007	0.007	14:07	0.031	0.169	X
14:08	0.006	0.007	14:08	0.043	0.157	X
14:09	0.006	0.007	14:09	0.415	0.175	X
14:10	0.006	0.007	14:10	0.354	0.176	X
14:11	0.006	0.007	14:11	0.050	0.171	X
14:12	0.006	0.007	14:12	0.048	0.163	X
14:13	0.005	0.007	14:13	0.067	0.148	-
14:14	0.007	0.006	14:14	0.062	0.141	-
14:15	0.008	0.007	14:15	0.093	0.130	-
14:16	0.006	0.007	14:16	0.086	0.129	-
14:17	0.006	0.007	14:17	0.031	0.116	-
14:18	0.006	0.006	14:18	0.044	0.112	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
14:19	0.006	0.006	14:19	0.053	0.102	-
14:20	0.006	0.006	14:20	0.043	0.097	-
14:21	0.006	0.006	14:21	0.060	0.099	-
14:22	0.007	0.006	14:22	0.033	0.099	-
14:23	0.007	0.006	14:23	0.034	0.098	-
14:24	0.006	0.006	14:24	0.211	0.085	-
14:25	0.007	0.006	14:25	0.137	0.070	-
14:26	0.007	0.006	14:26	0.137	0.076	-
14:27	0.008	0.007	14:27	0.039	0.075	-
14:28	0.008	0.007	14:28	0.025	0.073	-
14:29	0.007	0.007	14:29	0.050	0.072	-
14:30	0.008	0.007	14:30	0.040	0.068	-
14:31	0.007	0.007	14:31	0.058	0.066	-
14:32	0.007	0.007	14:32	0.064	0.069	-
14:33	0.007	0.007	14:33	0.050	0.069	-
14:34	0.008	0.007	14:34	0.073	0.070	-
14:35	0.007	0.007	14:35	0.097	0.074	-
14:36	0.006	0.007	14:36	0.043	0.073	-
14:37	0.006	0.007	14:37	0.087	0.076	-
14:38	0.006	0.007	14:38	0.077	0.079	-
14:39	0.006	0.007	14:39	0.077	0.070	-
14:40	0.006	0.007	14:40	0.062	0.065	-
14:41	0.007	0.007	14:41	0.065	0.060	-
14:42	0.008	0.007	14:42	0.129	0.066	-
14:43	0.007	0.007	14:43	0.067	0.069	-
14:44	0.007	0.007	14:44	0.050	0.069	-
14:45	0.007	0.007	14:45	0.119	0.075	-
14:46	0.011	0.007	14:46	0.103	0.078	-
14:47	0.007	0.007	14:47	0.062	0.077	-
14:48	0.007	0.007	14:48	0.088	0.080	-
14:49	0.015	0.008	14:49	0.067	0.080	-
14:50	0.008	0.008	14:50	0.045	0.076	-
14:51	0.008	0.008	14:51	0.028	0.075	-
14:52	0.008	0.008	14:52	0.038	0.072	-
14:53	0.008	0.008	14:53	0.056	0.070	-
14:54	0.008	0.008	14:54	0.050	0.069	-
14:55	0.008	0.008	14:55	0.047	0.068	-
14:56	0.010	0.008	14:56	0.044	0.066	-
14:57	0.010	0.009	14:57	0.037	0.060	-
14:58	0.009	0.009	14:58	0.065	0.060	-
14:59	0.010	0.009	14:59	0.061	0.061	-
15:00	0.009	0.009	15:00	0.038	0.055	-
15:01	0.009	0.009	15:01	0.034	0.051	-
15:02	0.010	0.009	15:02	0.129	0.055	-
15:03	0.009	0.009	15:03	0.062	0.053	-
15:04	0.010	0.009	15:04	0.060	0.053	-
15:05	0.011	0.009	15:05	0.092	0.056	-
15:06	0.011	0.009	15:06	0.030	0.056	-
15:07	0.012	0.010	15:07	0.058	0.058	-
15:08	0.012	0.010	15:08	0.030	0.056	-
15:09	0.012	0.010	15:09	0.029	0.054	-
15:10	0.012	0.010	15:10	0.030	0.053	-
15:11	0.011	0.010	15:11	0.042	0.053	-
15:12	0.012	0.011	15:12	0.040	0.053	-
15:13	0.012	0.011	15:13	0.039	0.052	-
15:14	0.011	0.011	15:14	0.037	0.050	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
15:15	0.013	0.011	15:15	0.057	0.051	-
15:16	0.012	0.011	15:16	0.115	0.057	-
15:17	0.012	0.011	15:17	0.059	0.052	-
15:18	0.012	0.012	15:18	0.108	0.055	-
15:19	0.012	0.012	15:19	0.078	0.056	-
15:20	0.012	0.012	15:20	0.036	0.053	-
15:21	0.013	0.012	15:21	0.044	0.053	-
15:22	0.012	0.012	15:22	0.044	0.053	-
15:23	0.012	0.012	15:23	0.161	0.061	-
15:24	0.013	0.012	15:24	0.119	0.067	-
15:25	0.014	0.012	15:25	0.042	0.068	-
15:26	0.013	0.012	15:26	0.041	0.068	-
15:27	0.013	0.012	15:27	0.051	0.069	-
15:28	0.014	0.013	15:28	0.142	0.076	-
15:29	0.014	0.013	15:29	0.085	0.079	-
15:30	0.014	0.013	15:30	0.041	0.078	-
15:31	0.015	0.013	15:31	0.046	0.073	-
15:32	0.016	0.013	15:32	0.051	0.073	-
15:33	0.016	0.014	15:33	0.052	0.069	-
15:34	0.017	0.014	15:34	0.045	0.067	-
15:35	0.018	0.014	15:35	0.070	0.069	-
15:36	0.017	0.015	15:36	0.055	0.070	-
15:37	0.017	0.015	15:37	0.065	0.071	-
15:38	0.017	0.015	15:38	0.061	0.064	-
15:39	0.017	0.015	15:39	0.046	0.060	-
15:40	0.016	0.016	15:40	0.052	0.060	-
15:41	0.017	0.016	15:41	0.040	0.060	-
15:42	0.017	0.016	15:42	0.052	0.060	-
15:43	0.017	0.016	15:43	0.041	0.053	-
15:44	0.017	0.017	15:44	0.037	0.050	-
15:45	0.018	0.017	15:45	0.039	0.050	-
15:46	0.018	0.017	15:46	0.037	0.050	-
15:47	0.017	0.017	15:47	0.048	0.049	-
15:48	0.017	0.017	15:48	0.060	0.050	-
15:49	0.018	0.017	15:49	0.141	0.056	-
15:50	0.018	0.017	15:50	0.121	0.060	-
15:51	0.019	0.017	15:51	0.086	0.062	-
15:52	0.020	0.018	15:52	0.054	0.061	-
15:53	0.020	0.018	15:53	0.040	0.060	-
15:54	0.018	0.018	15:54	0.045	0.060	-
15:55	0.019	0.018	15:55	0.038	0.059	-
15:56	0.019	0.018	15:56	0.059	0.060	-
15:57	0.019	0.018	15:57	0.039	0.059	-
15:58	0.019	0.018	15:58	0.040	0.059	-
15:59	0.018	0.018	15:59	0.037	0.059	-
16:00	0.018	0.018	16:00	0.075	0.061	-
16:01	0.019	0.019	16:01	0.063	0.063	-
16:02	0.019	0.019	16:02	0.059	0.064	-
16:03	0.019	0.019	16:03	0.038	0.062	-
16:04	0.020	0.019	16:04	0.054	0.057	-
16:05	0.021	0.019	16:05	0.046	0.052	-
16:06	0.021	0.019	16:06	0.069	0.050	-
16:07	0.026	0.020	16:07	0.064	0.051	-
16:08	0.031	0.020	16:08	0.100	0.055	-
16:09	0.029	0.021	16:09	0.110	0.059	-
16:10	0.022	0.021	16:10	0.080	0.062	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
16:11	0.021	0.021	16:11	0.045	0.061	-
16:12	0.020	0.022	16:12	0.042	0.061	-
16:13	0.019	0.022	16:13	0.037	0.061	-
16:14	0.018	0.022	16:14	0.047	0.062	-
16:15	0.019	0.022	16:15	0.069	0.062	-
16:16	0.019	0.022	16:16	0.062	0.061	-
16:17	0.019	0.022	16:17	0.054	0.061	-
16:18	0.019	0.022	16:18	0.060	0.063	-
16:19	0.020	0.022	16:19	0.044	0.062	-
16:20	0.020	0.022	16:20	0.046	0.062	-
16:21	0.020	0.021	16:21	0.060	0.061	-
16:22	0.020	0.021	16:22	0.060	0.061	-
16:23	0.019	0.020	16:23	0.068	0.059	-
16:24	0.019	0.020	16:24	0.059	0.056	-
16:25	0.019	0.019	16:25	0.047	0.053	-
16:26	0.018	0.019	16:26	0.052	0.054	-
16:27	0.018	0.019	16:27	0.057	0.055	-
16:28	0.018	0.019	16:28	0.038	0.055	-
16:29	0.018	0.019	16:29	0.037	0.054	-
16:30	0.018	0.019	16:30	0.034	0.052	-
16:31	0.019	0.019	16:31	0.043	0.051	-
16:32	0.019	0.019	16:32	0.036	0.049	-
16:33	0.019	0.019	16:33	0.047	0.049	-
16:34	0.019	0.019	16:34	0.052	0.049	-
16:35	0.019	0.019	16:35	0.038	0.049	-
16:36	0.019	0.019	16:36	0.035	0.047	-
16:37	0.019	0.019	16:37	0.036	0.045	-
16:38	0.019	0.019	16:38	0.035	0.043	-
16:39	0.019	0.019	16:39	0.036	0.042	-
16:40	0.019	0.019	16:40	0.038	0.041	-
16:41	0.020	0.019	16:41	0.043	0.040	-
16:42	0.020	0.019	16:42	0.041	0.039	-
16:43	0.018	0.019	16:43	0.039	0.039	-
16:44	0.019	0.019	16:44	0.042	0.040	-
16:45	0.018	0.019	16:45	0.041	0.040	-
16:46	0.019	0.019	16:46	0.074	0.042	-
16:47	0.018	0.019	16:47	0.123	0.048	-
16:48	0.017	0.019	16:48	0.048	0.048	-
16:49	0.018	0.019	16:49	0.040	0.047	-
16:50	0.018	0.019	16:50	0.064	0.049	-
16:51	0.018	0.019	16:51	0.040	0.049	-
16:52	0.020	0.019	16:52	0.690	0.093	-
16:53	0.020	0.019	16:53	0.258	0.108	-
16:54	0.019	0.019	16:54	0.158	0.116	-
16:55	0.018	0.019	16:55	0.046	0.116	-
16:56	0.017	0.018	16:56	0.139	0.123	-
16:57	0.017	0.018	16:57	0.077	0.125	-
16:58	0.018	0.018	16:58	0.036	0.125	-
16:59	0.017	0.018	16:59	0.036	0.125	-
17:00	0.017	0.018	17:00	0.033	0.124	-
17:01	0.017	0.018	17:01	0.062	0.123	-
17:02	0.016	0.018	17:02	0.070	0.120	-
17:03	0.017	0.018	17:03	0.072	0.121	-
17:04	0.016	0.018	17:04	0.074	0.124	-
17:05	0.016	0.018	17:05	0.067	0.124	-
17:06	0.016	0.017	17:06	0.084	0.127	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
17:07	0.017	0.017	17:07	0.073	0.086	-
17:08	0.015	0.017	17:08	0.071	0.073	-
17:09	0.015	0.017	17:09	0.072	0.067	-
17:10	0.015	0.016	17:10	0.106	0.071	-
17:11	0.016	0.016	17:11	0.067	0.067	-
17:12	0.015	0.016	17:12	0.033	0.064	-
17:13	0.015	0.016	17:13	0.042	0.064	-
17:14	0.015	0.016	17:14	0.081	0.067	-
17:15	0.015	0.016	17:15	0.043	0.068	-
17:16	0.015	0.016	17:16	0.050	0.067	-
17:17	0.015	0.016	17:17	0.147	0.072	-
17:18	0.015	0.015	17:18	0.070	0.072	-
17:19	0.015	0.015	17:19	0.037	0.070	-
17:20	0.015	0.015	17:20	0.050	0.068	-
17:21	0.015	0.015	17:21	0.089	0.069	-
17:22	0.015	0.015	17:22	0.184	0.076	-
17:23	0.016	0.015	17:23	0.085	0.077	-
17:24	0.015	0.015	17:24	0.066	0.077	-
17:25	0.015	0.015	17:25	0.077	0.075	-
17:26	0.015	0.015	17:26	0.062	0.074	-
17:27	0.015	0.015	17:27	0.052	0.076	-
17:28	0.016	0.015	17:28	0.044	0.076	-
17:29	0.016	0.015	17:29	0.049	0.074	-
17:30	0.016	0.015	17:30	0.046	0.074	-
17:31	0.015	0.015	17:31	0.043	0.073	-
17:32	0.015	0.015	17:32	0.043	0.066	-
17:33	0.015	0.015	17:33	0.040	0.064	-
17:34			17:34	0.033	0.064	

Monday, April 03, 2017						
Number of Instances Where Downwind VOCs Exceeds Upwind VOCs + 5 ppm =						49
Number of Comparable Data Points =						567
PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
7:50	0.1		7:50			
7:51	0.1		7:51			
7:52	0.0		7:52	0.0		
7:53	0.0		7:53	0.0		
7:54	0.0		7:54	0.0		
7:55	0.0		7:55	0.0		
7:56	0.0		7:56	0.0		
7:57	0.0		7:57	0.0		
7:58	0.0		7:58	0.0		
7:59	0.0		7:59	0.0		
8:00	0.0		8:00	0.0		
8:01	0.0		8:01	0.0		
8:02	0.0		8:02	0.0		
8:03	0.0		8:03	0.0		
8:04	0.0		8:04	0.0		
8:05	0.0		8:05	0.0		
8:06	0.0	0.0	8:06	0.0	0.0	-
8:07	0.0	0.0	8:07	0.0	0.0	-
8:08	0.1	0.0	8:08	0.0	0.0	-
8:09	0.1	0.0	8:09	0.0	0.0	-
8:10	0.0	0.0	8:10	0.0	0.0	-
8:11	0.0	0.0	8:11	0.0	0.0	-
8:12	0.0	0.0	8:12	0.0	0.0	-
8:13	0.0	0.0	8:13	0.0	0.0	-
8:14	0.0	0.0	8:14	0.0	0.0	-
8:15	0.0	0.0	8:15	0.0	0.0	-
8:16	0.1	0.0	8:16	0.0	0.0	-
8:17	0.1	0.0	8:17	0.0	0.0	-
8:18	0.1	0.0	8:18	0.0	0.0	-
8:19	0.2	0.0	8:19	0.0	0.0	-
8:20	0.1	0.1	8:20	0.0	0.0	-
8:21	0.1	0.1	8:21	0.0	0.0	-
8:22	0.1	0.1	8:22	0.0	0.0	-
8:23	0.1	0.1	8:23	0.0	0.0	-
8:24	0.1	0.1	8:24	0.0	0.0	-
8:25	0.1	0.1	8:25	0.0	0.0	-
8:26	0.1	0.1	8:26	0.0	0.0	-
8:27	0.1	0.1	8:27	0.0	0.0	-
8:28	0.1	0.1	8:28	0.0	0.0	-
8:29	0.1	0.1	8:29	0.0	0.0	-
8:30	0.1	0.1	8:30	0.0	0.0	-
8:31	0.1	0.1	8:31	0.0	0.0	-
8:32	0.2	0.1	8:32	0.0	0.0	-
8:33	0.2	0.1	8:33	0.0	0.0	-
8:34	0.2	0.1	8:34	0.0	0.0	-
8:35	0.2	0.1	8:35	0.0	0.0	-
8:36	0.2	0.1	8:36	0.0	0.0	-
8:37	0.2	0.1	8:37	0.0	0.0	-
8:38	0.2	0.1	8:38	0.0	0.0	-
8:39	0.2	0.2	8:39	0.0	0.0	-
8:40	0.2	0.2	8:40	0.0	0.0	-
8:41	0.1	0.2	8:41	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
8:42	0.1	0.2	8:42	0.0	0.0	-
8:43	0.1	0.2	8:43	0.0	0.0	-
8:44	0.1	0.2	8:44	0.0	0.0	-
8:45	0.1	0.2	8:45	0.0	0.0	-
8:46	0.1	0.2	8:46	0.0	0.0	-
8:47	0.1	0.2	8:47	0.0	0.0	-
8:48	0.1	0.1	8:48	0.0	0.0	-
8:49	0.1	0.1	8:49	0.0	0.0	-
8:50	0.1	0.1	8:50	0.0	0.0	-
8:51	0.1	0.1	8:51	0.0	0.0	-
8:52	0.1	0.1	8:52	0.0	0.0	-
8:53	0.1	0.1	8:53	0.0	0.0	-
8:54	0.1	0.1	8:54	0.0	0.0	-
8:55	0.1	0.1	8:55	0.0	0.0	-
8:56	0.1	0.1	8:56	0.0	0.0	-
8:57	0.1	0.1	8:57	0.0	0.0	-
8:58	0.1	0.1	8:58	0.0	0.0	-
8:59	0.1	0.1	8:59	0.0	0.0	-
9:00	0.1	0.1	9:00	0.0	0.0	-
9:01	0.1	0.1	9:01	0.0	0.0	-
9:02	0.1	0.1	9:02	0.0	0.0	-
9:03	0.1	0.1	9:03	0.0	0.0	-
9:04	0.1	0.1	9:04	0.0	0.0	-
9:05	0.1	0.1	9:05	0.0	0.0	-
9:06	0.1	0.1	9:06	0.0	0.0	-
9:07	0.1	0.1	9:07	0.0	0.0	-
9:08	0.1	0.1	9:08	0.0	0.0	-
9:09	0.1	0.1	9:09	0.0	0.0	-
9:10	0.1	0.1	9:10	0.0	0.0	-
9:11	0.1	0.1	9:11	0.0	0.0	-
9:12	0.1	0.1	9:12	0.0	0.0	-
9:13	0.1	0.1	9:13	0.0	0.0	-
9:14	0.1	0.1	9:14	0.0	0.0	-
9:15	0.1	0.1	9:15	0.0	0.0	-
9:16	0.0	0.1	9:16	0.0	0.0	-
9:17	0.0	0.1	9:17	0.0	0.0	-
9:18	0.0	0.1	9:18	21.7	1.4	-
9:19	0.0	0.1	9:19	2.6	1.6	-
9:20	0.0	0.1	9:20	0.0	1.6	-
9:21	0.0	0.1	9:21	0.0	1.6	-
9:22	0.0	0.1	9:22	0.0	1.6	-
9:23	0.0	0.0	9:23	0.0	1.6	-
9:24	0.0	0.0	9:24	0.0	1.6	-
9:25	0.0	0.0	9:25	0.0	1.6	-
9:26	0.0	0.0	9:26	0.0	1.6	-
9:27	0.0	0.0	9:27	0.0	1.6	-
9:28	0.0	0.0	9:28	0.0	1.6	-
9:29	0.0	0.0	9:29	0.0	1.6	-
9:30	0.0	0.0	9:30	0.0	1.6	-
9:31	0.0	0.0	9:31	0.0	1.6	-
9:32	0.0	0.0	9:32	0.0	1.6	-
9:33	0.0	0.0	9:33	0.0	0.2	-
9:34	0.0	0.0	9:34	0.0	0.0	-
9:35	0.0	0.0	9:35	0.0	0.0	-
9:36	0.0	0.0	9:36	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
9:37	0.0	0.0	9:37	0.0	0.0	-
9:38	0.0	0.0	9:38	0.0	0.0	-
9:39	0.0	0.0	9:39	0.0	0.0	-
9:40	0.0	0.0	9:40	0.0	0.0	-
9:41	0.0	0.0	9:41	0.0	0.0	-
9:42	1.0	0.1	9:42	0.0	0.0	-
9:43	0.1	0.1	9:43	0.0	0.0	-
9:44	0.0	0.1	9:44	0.2	0.0	-
9:45	0.0	0.1	9:45	2.3	0.2	-
9:46	0.0	0.1	9:46	0.3	0.2	-
9:47	1.1	0.1	9:47	0.1	0.2	-
9:48	0.3	0.2	9:48	0.0	0.2	-
9:49	0.0	0.2	9:49	0.0	0.2	-
9:50	0.0	0.2	9:50	0.0	0.2	-
9:51	0.0	0.2	9:51	0.0	0.2	-
9:52	0.0	0.2	9:52	0.0	0.2	-
9:53	0.9	0.2	9:53	0.0	0.2	-
9:54	0.3	0.2	9:54	0.0	0.2	-
9:55	0.1	0.3	9:55	0.0	0.2	-
9:56	0.1	0.3	9:56	0.0	0.2	-
9:57	0.1	0.2	9:57	0.0	0.2	-
9:58	0.1	0.2	9:58	0.0	0.2	-
9:59	0.0	0.2	9:59	0.0	0.2	-
10:00	0.0	0.2	10:00	0.0	0.0	-
10:01	0.0	0.2	10:01	0.0	0.0	-
10:02	0.0	0.1	10:02	0.0	0.0	-
10:03	0.0	0.1	10:03	0.0	0.0	-
10:04	0.0	0.1	10:04	0.0	0.0	-
10:05	0.0	0.1	10:05	0.0	0.0	-
10:06	0.0	0.1	10:06	0.0	0.0	-
10:07	0.0	0.1	10:07	0.0	0.0	-
10:08	0.0	0.0	10:08	0.0	0.0	-
10:09	0.0	0.0	10:09	0.0	0.0	-
10:10	0.0	0.0	10:10	0.0	0.0	-
10:11	0.0	0.0	10:11	0.0	0.0	-
10:12	0.0	0.0	10:12	0.0	0.0	-
10:13	0.0	0.0	10:13	0.0	0.0	-
10:14	0.0	0.0	10:14	0.0	0.0	-
10:15	0.0	0.0	10:15	0.0	0.0	-
10:16	0.0	0.0	10:16	0.0	0.0	-
10:17	0.0	0.0	10:17	0.0	0.0	-
10:18	0.0	0.0	10:18	0.0	0.0	-
10:19	0.0	0.0	10:19	0.0	0.0	-
10:20	0.0	0.0	10:20	12.0	0.8	-
10:21	0.0	0.0	10:21	67.8	5.3	X
10:22	0.0	0.0	10:22	14.1	6.3	X
10:23	0.0	0.0	10:23	5.7	6.6	X
10:24	0.0	0.0	10:24	21.0	8.0	X
10:25	0.0	0.0	10:25	3.2	8.3	X
10:26	0.0	0.0	10:26	7.2	8.7	X
10:27	0.0	0.0	10:27	31.2	10.8	X
10:28	0.0	0.0	10:28	7.9	11.3	X
10:29	0.0	0.0	10:29	7.9	11.9	X
10:30	0.0	0.0	10:30	3.5	12.1	X
10:31	0.0	0.0	10:31	4.7	12.4	X

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
10:32	0.0	0.0	10:32	5.7	12.8	X
10:33	0.0	0.0	10:33	1.1	12.9	X
10:34	0.0	0.0	10:34	0.0	12.9	X
10:35	0.0	0.0	10:35	0.0	12.1	X
10:36	0.0	0.0	10:36	0.0	7.5	X
10:37	0.0	0.0	10:37	0.0	6.6	X
10:38	0.0	0.0	10:38	0.0	6.2	X
10:39	0.0	0.0	10:39	0.3	4.8	-
10:40	0.0	0.0	10:40	3.1	4.8	-
10:41	0.0	0.0	10:41	0.0	4.4	-
10:42	0.0	0.0	10:42	2.2	2.4	-
10:43	0.0	0.0	10:43	0.0	1.9	-
10:44	0.0	0.0	10:44	3.5	1.6	-
10:45	0.0	0.0	10:45	3.0	1.6	-
10:46	0.0	0.0	10:46	1.8	1.4	-
10:47	0.0	0.0	10:47	0.0	1.0	-
10:48	0.0	0.0	10:48	3.3	1.1	-
10:49	0.0	0.0	10:49	1.0	1.2	-
10:50	0.0	0.0	10:50	0.0	1.2	-
10:51	0.0	0.0	10:51	1.1	1.3	-
10:52	0.0	0.0	10:52	0.0	1.3	-
10:53	0.0	0.0	10:53	0.9	1.3	-
10:54	0.0	0.0	10:54	0.6	1.4	-
10:55	0.0	0.0	10:55	0.3	1.2	-
10:56	0.0	0.0	10:56	0.0	1.2	-
10:57	0.0	0.0	10:57	0.2	1.0	-
10:58	0.0	0.0	10:58	0.0	1.0	-
10:59	0.0	0.0	10:59	0.4	0.8	-
11:00	0.0	0.0	11:00	1.3	0.7	-
11:01	0.0	0.0	11:01	0.5	0.6	-
11:02	0.0	0.0	11:02	1.1	0.7	-
11:03	0.0	0.0	11:03	0.2	0.5	-
11:04	0.0	0.0	11:04	0.0	0.4	-
11:05	0.1	0.0	11:05	0.0	0.4	-
11:06	0.1	0.0	11:06	0.0	0.4	-
11:07	0.0	0.0	11:07	0.0	0.4	-
11:08	0.0	0.0	11:08	0.0	0.3	-
11:09	0.0	0.0	11:09	0.0	0.3	-
11:10	0.0	0.0	11:10	0.0	0.2	-
11:11	0.0	0.0	11:11	0.0	0.2	-
11:12	0.0	0.0	11:12	0.0	0.2	-
11:13	0.0	0.0	11:13	0.0	0.2	-
11:14	0.0	0.0	11:14	0.0	0.2	-
11:15	0.0	0.0	11:15	0.0	0.1	-
11:16	0.0	0.0	11:16	0.0	0.1	-
11:17	0.0	0.0	11:17	0.0	0.0	-
11:18	0.0	0.0	11:18	0.0	0.0	-
11:19	0.0	0.0	11:19	0.0	0.0	-
11:20	0.0	0.0	11:20	0.0	0.0	-
11:21	0.0	0.0	11:21	0.0	0.0	-
11:22	0.0	0.0	11:22	0.0	0.0	-
11:23	0.0	0.0	11:23	0.0	0.0	-
11:24	0.0	0.0	11:24	0.0	0.0	-
11:25	0.0	0.0	11:25	0.0	0.0	-
11:26	0.0	0.0	11:26	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
11:27	0.0	0.0	11:27	0.0	0.0	-
11:28	0.0	0.0	11:28	0.0	0.0	-
11:29	0.0	0.0	11:29	0.0	0.0	-
11:30	0.0	0.0	11:30	0.0	0.0	-
11:31	0.0	0.0	11:31	0.0	0.0	-
11:32	0.0	0.0	11:32	0.0	0.0	-
11:33	0.0	0.0	11:33	5.3	0.4	-
11:34	0.0	0.0	11:34	0.0	0.4	-
11:35	0.0	0.0	11:35	0.0	0.4	-
11:36	0.0	0.0	11:36	0.0	0.4	-
11:37	0.0	0.0	11:37	0.0	0.4	-
11:38	0.0	0.0	11:38	0.0	0.4	-
11:39	0.0	0.0	11:39	0.0	0.4	-
11:40	0.0	0.0	11:40	0.0	0.4	-
11:41	0.0	0.0	11:41	0.0	0.4	-
11:42	0.0	0.0	11:42	0.0	0.4	-
11:43	0.0	0.0	11:43	0.0	0.4	-
11:44	0.0	0.0	11:44	0.0	0.4	-
11:45	0.0	0.0	11:45	0.0	0.4	-
11:46	0.0	0.0	11:46	0.0	0.4	-
11:47	0.0	0.0	11:47	0.0	0.4	-
11:48	0.0	0.0	11:48	0.0	0.0	-
11:49	0.0	0.0	11:49	0.0	0.0	-
11:50	0.0	0.0	11:50	0.0	0.0	-
11:51	0.0	0.0	11:51	0.0	0.0	-
11:52	0.0	0.0	11:52	0.0	0.0	-
11:53	0.0	0.0	11:53	0.0	0.0	-
11:54	0.0	0.0	11:54	0.0	0.0	-
11:55	0.0	0.0	11:55	0.0	0.0	-
11:56	0.0	0.0	11:56	0.0	0.0	-
11:57	0.0	0.0	11:57	0.0	0.0	-
11:58	0.0	0.0	11:58	0.0	0.0	-
11:59	0.0	0.0	11:59	0.0	0.0	-
12:00	0.0	0.0	12:00	0.0	0.0	-
12:01	0.0	0.0	12:01	0.0	0.0	-
12:02	0.0	0.0	12:02	0.0	0.0	-
12:03	0.0	0.0	12:03	0.0	0.0	-
12:04	0.0	0.0	12:04	0.0	0.0	-
12:05	0.0	0.0	12:05	0.0	0.0	-
12:06	0.0	0.0	12:06	0.0	0.0	-
12:07	0.0	0.0	12:07	0.0	0.0	-
12:08	0.0	0.0	12:08	0.0	0.0	-
12:09	0.0	0.0	12:09	0.0	0.0	-
12:10	0.0	0.0	12:10	0.0	0.0	-
12:11	0.0	0.0	12:11	0.0	0.0	-
12:12	0.0	0.0	12:12	0.0	0.0	-
12:13	0.0	0.0	12:13	0.0	0.0	-
12:14	0.0	0.0	12:14	0.0	0.0	-
12:15	0.0	0.0	12:15	0.0	0.0	-
12:16	0.0	0.0	12:16	0.0	0.0	-
12:17	0.0	0.0	12:17	0.0	0.0	-
12:18	0.0	0.0	12:18	0.0	0.0	-
12:19	0.0	0.0	12:19	0.0	0.0	-
12:20	0.0	0.0	12:20	0.0	0.0	-
12:21	0.0	0.0	12:21	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
12:22	0.0	0.0	12:22	0.0	0.0	-
12:23	0.0	0.0	12:23	0.0	0.0	-
12:24	0.0	0.0	12:24	0.0	0.0	-
12:25	0.0	0.0	12:25	0.0	0.0	-
12:26	0.0	0.0	12:26	0.0	0.0	-
12:27	0.0	0.0	12:27	0.0	0.0	-
12:28	0.0	0.0	12:28	0.0	0.0	-
12:29	0.0	0.0	12:29	0.0	0.0	-
12:30	0.0	0.0	12:30	0.0	0.0	-
12:31	0.0	0.0	12:31	0.0	0.0	-
12:32	0.0	0.0	12:32	0.0	0.0	-
12:33	0.0	0.0	12:33	0.0	0.0	-
12:34	0.0	0.0	12:34	0.0	0.0	-
12:35	0.0	0.0	12:35	0.0	0.0	-
12:36	0.0	0.0	12:36	0.0	0.0	-
12:37	0.0	0.0	12:37	0.0	0.0	-
12:38	0.0	0.0	12:38	0.0	0.0	-
12:39	0.0	0.0	12:39	0.0	0.0	-
12:40	0.0	0.0	12:40	0.0	0.0	-
12:41	0.0	0.0	12:41	0.0	0.0	-
12:42	0.0	0.0	12:42	0.0	0.0	-
12:43	0.0	0.0	12:43	0.0	0.0	-
12:44	0.0	0.0	12:44	0.0	0.0	-
12:45	0.0	0.0	12:45	0.0	0.0	-
12:46	0.0	0.0	12:46	0.0	0.0	-
12:47	0.0	0.0	12:47	0.0	0.0	-
12:48	0.0	0.0	12:48	0.0	0.0	-
12:49	0.0	0.0	12:49	0.0	0.0	-
12:50	0.0	0.0	12:50	0.0	0.0	-
12:51	0.0	0.0	12:51	0.0	0.0	-
12:52	0.0	0.0	12:52	0.0	0.0	-
12:53	0.0	0.0	12:53	0.0	0.0	-
12:54	0.0	0.0	12:54	0.0	0.0	-
12:55	0.0	0.0	12:55	0.0	0.0	-
12:56	0.0	0.0	12:56	0.0	0.0	-
12:57	0.0	0.0	12:57	0.0	0.0	-
12:58	0.0	0.0	12:58	0.0	0.0	-
12:59	0.0	0.0	12:59	0.0	0.0	-
13:00	0.0	0.0	13:00	0.0	0.0	-
13:01	0.0	0.0	13:01	0.0	0.0	-
13:02	0.0	0.0	13:02	0.0	0.0	-
13:03	0.0	0.0	13:03	0.0	0.0	-
13:04	0.0	0.0	13:04	0.0	0.0	-
13:05	0.0	0.0	13:05	0.0	0.0	-
13:06	0.0	0.0	13:06	0.0	0.0	-
13:07	0.0	0.0	13:07	0.0	0.0	-
13:08	0.0	0.0	13:08	0.0	0.0	-
13:09	0.0	0.0	13:09	0.0	0.0	-
13:10	0.0	0.0	13:10	0.0	0.0	-
13:11	0.0	0.0	13:11	0.0	0.0	-
13:12	0.0	0.0	13:12	0.0	0.0	-
13:13	0.0	0.0	13:13	0.0	0.0	-
13:14	0.0	0.0	13:14	0.0	0.0	-
13:15	0.0	0.0	13:15	0.0	0.0	-
13:16	0.0	0.0	13:16	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
13:17	0.0	0.0	13:17	0.0	0.0	-
13:18	0.0	0.0	13:18	0.0	0.0	-
13:19	0.0	0.0	13:19	0.0	0.0	-
13:20	0.0	0.0	13:20	0.0	0.0	-
13:21	0.0	0.0	13:21	0.0	0.0	-
13:22	0.0	0.0	13:22	0.0	0.0	-
13:23	0.0	0.0	13:23	0.0	0.0	-
13:24	0.0	0.0	13:24	0.0	0.0	-
13:25	0.0	0.0	13:25	0.0	0.0	-
13:26	0.0	0.0	13:26	0.0	0.0	-
13:27	0.0	0.0	13:27	0.0	0.0	-
13:28	0.0	0.0	13:28	3.4	0.2	-
13:29	0.0	0.0	13:29	0.1	0.2	-
13:30	0.0	0.0	13:30	1.9	0.4	-
13:31	0.0	0.0	13:31	96.0	6.8	X
13:32	0.0	0.0	13:32	100.1	13.4	X
13:33	0.0	0.0	13:33	1.4	13.5	X
13:34	0.0	0.0	13:34	0.0	13.5	X
13:35	0.0	0.0	13:35	0.0	13.5	X
13:36	0.0	0.0	13:36	0.0	13.5	X
13:37	0.0	0.0	13:37	0.0	13.5	X
13:38	0.0	0.0	13:38	0.0	13.5	X
13:39	0.0	0.0	13:39	0.0	13.5	X
13:40	0.0	0.0	13:40	0.0	13.5	X
13:41	0.0	0.0	13:41	0.0	13.5	X
13:42	0.0	0.0	13:42	0.0	13.5	X
13:43	0.0	0.0	13:43	0.0	13.3	X
13:44	0.0	0.0	13:44	0.0	13.3	X
13:45	0.0	0.0	13:45	0.0	13.2	X
13:46	0.0	0.0	13:46	0.0	6.8	X
13:47	0.0	0.0	13:47	0.0	0.1	-
13:48	0.0	0.0	13:48	0.0	0.0	-
13:49	0.0	0.0	13:49	0.0	0.0	-
13:50	0.0	0.0	13:50	0.0	0.0	-
13:51	0.0	0.0	13:51	0.0	0.0	-
13:52	0.0	0.0	13:52	0.0	0.0	-
13:53	0.0	0.0	13:53	0.0	0.0	-
13:54	0.0	0.0	13:54	0.0	0.0	-
13:55	0.0	0.0	13:55	0.0	0.0	-
13:56	0.0	0.0	13:56	0.0	0.0	-
13:57	0.0	0.0	13:57	0.0	0.0	-
13:58	0.0	0.0	13:58	0.0	0.0	-
13:59	0.0	0.0	13:59	0.0	0.0	-
14:00	0.0	0.0	14:00	0.0	0.0	-
14:01	0.0	0.0	14:01	0.0	0.0	-
14:02	0.0	0.0	14:02	0.0	0.0	-
14:03	0.0	0.0	14:03	0.0	0.0	-
14:04	0.0	0.0	14:04	0.0	0.0	-
14:05	0.0	0.0	14:05	0.0	0.0	-
14:06	0.0	0.0	14:06	0.0	0.0	-
14:07	0.0	0.0	14:07	0.0	0.0	-
14:08	0.0	0.0	14:08	0.0	0.0	-
14:09	0.0	0.0	14:09	0.0	0.0	-
14:10	0.0	0.0	14:10	0.0	0.0	-
14:11	0.0	0.0	14:11	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
14:12	0.0	0.0	14:12	0.0	0.0	-
14:13	0.0	0.0	14:13	0.0	0.0	-
14:14	0.0	0.0	14:14	0.0	0.0	-
14:15	0.0	0.0	14:15	0.0	0.0	-
14:16	0.0	0.0	14:16	0.0	0.0	-
14:17	0.0	0.0	14:17	0.0	0.0	-
14:18	0.0	0.0	14:18	0.0	0.0	-
14:19	0.0	0.0	14:19	0.0	0.0	-
14:20	0.0	0.0	14:20	0.0	0.0	-
14:21	0.0	0.0	14:21	0.0	0.0	-
14:22	0.0	0.0	14:22	0.0	0.0	-
14:23	0.0	0.0	14:23	0.0	0.0	-
14:24	0.0	0.0	14:24	0.0	0.0	-
14:25	0.0	0.0	14:25	0.0	0.0	-
14:26	0.0	0.0	14:26	0.0	0.0	-
14:27	0.0	0.0	14:27	0.0	0.0	-
14:28	0.0	0.0	14:28	0.0	0.0	-
14:29	0.0	0.0	14:29	0.0	0.0	-
14:30	0.0	0.0	14:30	0.0	0.0	-
14:31	0.0	0.0	14:31	0.0	0.0	-
14:32	0.0	0.0	14:32	0.0	0.0	-
14:33	0.0	0.0	14:33	0.0	0.0	-
14:34	0.0	0.0	14:34	0.0	0.0	-
14:35	0.0	0.0	14:35	0.0	0.0	-
14:36	0.0	0.0	14:36	0.0	0.0	-
14:37	0.0	0.0	14:37	0.0	0.0	-
14:38	0.0	0.0	14:38	0.0	0.0	-
14:39	0.0	0.0	14:39	0.0	0.0	-
14:40	0.0	0.0	14:40	0.0	0.0	-
14:41	0.0	0.0	14:41	0.0	0.0	-
14:42	0.0	0.0	14:42	0.0	0.0	-
14:43	0.0	0.0	14:43	0.0	0.0	-
14:44	0.0	0.0	14:44	0.0	0.0	-
14:45	0.0	0.0	14:45	0.0	0.0	-
14:46	0.0	0.0	14:46	0.0	0.0	-
14:47	0.0	0.0	14:47	0.0	0.0	-
14:48	0.0	0.0	14:48	0.0	0.0	-
14:49	0.0	0.0	14:49	0.0	0.0	-
14:50	0.0	0.0	14:50	0.0	0.0	-
14:51	0.0	0.0	14:51	0.0	0.0	-
14:52	0.0	0.0	14:52	0.0	0.0	-
14:53	0.0	0.0	14:53	0.0	0.0	-
14:54	0.0	0.0	14:54	0.0	0.0	-
14:55	0.0	0.0	14:55	0.0	0.0	-
14:56	0.0	0.0	14:56	0.0	0.0	-
14:57	0.0	0.0	14:57	0.0	0.0	-
14:58	0.0	0.0	14:58	0.0	0.0	-
14:59	0.0	0.0	14:59	0.0	0.0	-
15:00	0.0	0.0	15:00	0.0	0.0	-
15:01	0.0	0.0	15:01	0.1	0.0	-
15:02	0.0	0.0	15:02	0.0	0.0	-
15:03	0.0	0.0	15:03	1.8	0.1	-
15:04	0.0	0.0	15:04	6.3	0.5	-
15:05	0.0	0.0	15:05	0.0	0.5	-
15:06	0.0	0.0	15:06	0.0	0.5	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
15:07	0.0	0.0	15:07	0.0	0.5	-
15:08	0.0	0.0	15:08	0.0	0.5	-
15:09	0.0	0.0	15:09	0.0	0.5	-
15:10	0.0	0.0	15:10	0.0	0.5	-
15:11	0.0	0.0	15:11	0.0	0.5	-
15:12	0.0	0.0	15:12	0.0	0.5	-
15:13	0.0	0.0	15:13	0.0	0.5	-
15:14	0.0	0.0	15:14	0.0	0.5	-
15:15	0.0	0.0	15:15	0.0	0.5	-
15:16	0.0	0.0	15:16	0.0	0.5	-
15:17	0.0	0.0	15:17	0.0	0.5	-
15:18	0.0	0.0	15:18	0.0	0.4	-
15:19	0.0	0.0	15:19	0.0	0.0	-
15:20	0.0	0.0	15:20	0.0	0.0	-
15:21	0.0	0.0	15:21	0.0	0.0	-
15:22	0.0	0.0	15:22	0.0	0.0	-
15:23	0.0	0.0	15:23	0.0	0.0	-
15:24	0.0	0.0	15:24	0.0	0.0	-
15:25	0.0	0.0	15:25	0.0	0.0	-
15:26	0.0	0.0	15:26	0.0	0.0	-
15:27	0.0	0.0	15:27	0.0	0.0	-
15:28	0.0	0.0	15:28	0.0	0.0	-
15:29	0.0	0.0	15:29	0.0	0.0	-
15:30	0.0	0.0	15:30	0.0	0.0	-
15:31	0.0	0.0	15:31	0.0	0.0	-
15:32	0.0	0.0	15:32	0.0	0.0	-
15:33	0.0	0.0	15:33	0.0	0.0	-
15:34	0.0	0.0	15:34	0.0	0.0	-
15:35	0.0	0.0	15:35	0.0	0.0	-
15:36	0.0	0.0	15:36	0.0	0.0	-
15:37	0.0	0.0	15:37	0.0	0.0	-
15:38	0.0	0.0	15:38	0.0	0.0	-
15:39	0.0	0.0	15:39	0.0	0.0	-
15:40	0.0	0.0	15:40	0.0	0.0	-
15:41	0.0	0.0	15:41	0.0	0.0	-
15:42	0.0	0.0	15:42	0.0	0.0	-
15:43	0.0	0.0	15:43	0.0	0.0	-
15:44	0.0	0.0	15:44	0.0	0.0	-
15:45	0.0	0.0	15:45	0.0	0.0	-
15:46	0.0	0.0	15:46	0.0	0.0	-
15:47	0.0	0.0	15:47	0.0	0.0	-
15:48	0.0	0.0	15:48	0.0	0.0	-
15:49	0.0	0.0	15:49	0.0	0.0	-
15:50	0.0	0.0	15:50	0.0	0.0	-
15:51	0.0	0.0	15:51	0.0	0.0	-
15:52	0.0	0.0	15:52	0.0	0.0	-
15:53	0.0	0.0	15:53	0.0	0.0	-
15:54	0.0	0.0	15:54	0.0	0.0	-
15:55	0.0	0.0	15:55	0.0	0.0	-
15:56	0.0	0.0	15:56	0.0	0.0	-
15:57	0.0	0.0	15:57	0.0	0.0	-
15:58	0.0	0.0	15:58	0.0	0.0	-
15:59	0.0	0.0	15:59	0.0	0.0	-
16:00	0.0	0.0	16:00	0.0	0.0	-
16:01	0.0	0.0	16:01	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
16:02	0.0	0.0	16:02	0.0	0.0	-
16:03	0.0	0.0	16:03	0.0	0.0	-
16:04	0.0	0.0	16:04	0.0	0.0	-
16:05	0.0	0.0	16:05	0.0	0.0	-
16:06	0.0	0.0	16:06	0.0	0.0	-
16:07	0.0	0.0	16:07	0.0	0.0	-
16:08	0.0	0.0	16:08	0.0	0.0	-
16:09	0.0	0.0	16:09	0.0	0.0	-
16:10	0.0	0.0	16:10	0.0	0.0	-
16:11	0.0	0.0	16:11	0.0	0.0	-
16:12	0.0	0.0	16:12	0.0	0.0	-
16:13	0.0	0.0	16:13	0.0	0.0	-
16:14	0.0	0.0	16:14	0.0	0.0	-
16:15	0.0	0.0	16:15	0.0	0.0	-
16:16	0.0	0.0	16:16	0.0	0.0	-
16:17	0.0	0.0	16:17	0.0	0.0	-
16:18	0.0	0.0	16:18	0.0	0.0	-
16:19	0.0	0.0	16:19	0.0	0.0	-
16:20	0.0	0.0	16:20	0.0	0.0	-
16:21	0.0	0.0	16:21	0.0	0.0	-
16:22	0.0	0.0	16:22	0.0	0.0	-
16:23	0.0	0.0	16:23	0.0	0.0	-
16:24	0.0	0.0	16:24	0.0	0.0	-
16:25	0.0	0.0	16:25	0.0	0.0	-
16:26	0.0	0.0	16:26	0.0	0.0	-
16:27	0.0	0.0	16:27	0.0	0.0	-
16:28	0.0	0.0	16:28	0.0	0.0	-
16:29	0.0	0.0	16:29	0.0	0.0	-
16:30	0.0	0.0	16:30	0.0	0.0	-
16:31	0.0	0.0	16:31	0.0	0.0	-
16:32	0.0	0.0	16:32	0.0	0.0	-
16:33	0.0	0.0	16:33	0.0	0.0	-
16:34	0.0	0.0	16:34	0.0	0.0	-
16:35	0.0	0.0	16:35	0.0	0.0	-
16:36	0.0	0.0	16:36	0.0	0.0	-
16:37	0.0	0.0	16:37	0.0	0.0	-
16:38	0.0	0.0	16:38	0.0	0.0	-
16:39	0.0	0.0	16:39	0.0	0.0	-
16:40	0.0	0.0	16:40	0.0	0.0	-
16:41	0.0	TRUE	16:41	0.0	0.0	-
16:42	0.0	0.0	16:42	0.0	0.0	-
16:43	0.0	0.0	16:43	0.0	0.0	-
16:44	0.0	0.0	16:44	0.0	0.0	-
16:45	0.0	0.0	16:45	0.4	0.0	-
16:46	0.0	0.0	16:46	3.9	0.3	-
16:47	0.0	0.0	16:47	0.0	0.3	-
16:48	0.0	0.0	16:48	0.0	0.3	-
16:49	0.0	0.0	16:49	0.2	0.3	-
16:50	0.0	0.0	16:50	0.0	0.3	-
16:51	0.0	0.0	16:51	3.0	0.5	-
16:52	0.0	0.0	16:52	4.2	0.8	-
16:53	0.0	0.0	16:53	103.8	7.7	X
16:54	0.0	0.0	16:54	8.1	8.2	X
16:55	0.0	0.0	16:55	17.9	9.4	X
16:56	0.0	0.0	16:56	18.7	10.7	X

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
16:57	0.0	0.0	16:57	0.0	10.7	X
16:58	0.0	0.0	16:58	0.0	10.7	X
16:59	0.0	0.0	16:59	0.0	10.7	X
17:00	0.0	0.0	17:00	0.0	10.7	X
17:01	0.0	0.0	17:01	0.3	10.4	X
17:02	0.0	0.0	17:02	0.5	10.4	X
17:03	0.0	0.0	17:03	1.2	10.5	X
17:04	0.0	0.0	17:04	0.1	10.5	X
17:05	0.0	0.0	17:05	1.6	10.6	X
17:06	0.0	0.0	17:06	0.4	10.5	X
17:07	0.0	0.0	17:07	0.7	10.2	X
17:08	0.0	0.0	17:08	3.8	3.6	-
17:09	0.0	0.0	17:09	6.0	3.4	-
17:10	0.0	0.0	17:10	2.1	2.4	-
17:11	0.0	0.0	17:11	0.0	1.1	-
17:12	0.0	0.0	17:12	0.0	1.1	-
17:13	0.0	0.0	17:13	2.5	1.3	-
17:14	0.0	0.0	17:14	0.1	1.3	-
17:15	0.0	0.0	17:15	0.0	1.3	-
17:16	0.0	0.0	17:16	2.0	1.4	-
17:17	0.0	0.0	17:17	0.3	1.4	-
17:18	0.0	0.0	17:18	0.0	1.3	-
17:19	0.0	0.0	17:19	1.5	1.4	-
17:20	0.0	0.0	17:20	0.0	1.3	-
17:21	0.0	0.0	17:21	3.7	1.5	-
17:22	0.0	0.0	17:22	1.1	1.5	-
17:23	0.0	0.0	17:23	1.0	1.4	-
17:24	0.0	0.0	17:24	1.1	1.0	-
17:25	0.0	0.0	17:25	0.4	0.9	-
17:26	0.0	0.0	17:26	0.1	0.9	-
17:27	0.0	0.0	17:27	0.0	0.9	-
17:28	0.0	0.0	17:28	0.1	0.8	-
17:29	0.0	0.0	17:29	0.1	0.8	-
17:30	0.0	0.0	17:30	0.6	0.8	-
17:31	0.0	0.0	17:31	0.0	0.7	-
17:32	0.0	0.0	17:32	0.0	0.6	-
17:33			17:33	0.00	0.65	

Friday, April 07, 2017						
Number of Instances Where Downwind Particulates Exceeds Upwind Particulate + 0.150 mg/m^3 =						0
Number of Comparable Data Points =						340
PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
7:40	0.019		7:40			
7:41	0.015		7:41			
7:42	0.013		7:42	0.021		
7:43	0.012		7:43	0.020		
7:44	0.009		7:44	0.024		
7:45	0.012		7:45	0.019		
7:46	0.011		7:46	0.023		
7:47	0.012		7:47	0.018		
7:48	0.011		7:48	0.015		
7:49	0.018		7:49	0.015		
7:50	0.013		7:50	0.015		
7:51	0.008		7:51	0.013		
7:52	0.010		7:52	0.012		
7:53	0.011		7:53	0.012		
7:54	0.009	0.012	7:54	0.013		
7:55	0.010	0.012	7:55	0.013		
7:56	0.013	0.011	7:56	0.027	0.017	-
7:57	0.016	0.012	7:57	0.014	0.017	-
7:58	0.016	0.012	7:58	0.018	0.017	-
7:59	0.009	0.012	7:59	0.014	0.016	-
8:00	0.009	0.012	8:00	0.013	0.016	-
8:01	0.007	0.011	8:01	0.012	0.015	-
8:02	0.007	0.011	8:02	0.014	0.015	-
8:03	0.008	0.011	8:03	0.015	0.015	-
8:04	0.008	0.010	8:04	0.017	0.015	-
8:05	0.009	0.010	8:05	0.014	0.015	-
8:06	0.009	0.010	8:06	0.013	0.015	-
8:07	0.008	0.010	8:07	0.012	0.015	-
8:08	0.007	0.010	8:08	0.013	0.015	-
8:09	0.006	0.009	8:09	0.015	0.015	-
8:10	0.007	0.009	8:10	0.015	0.015	-
8:11	0.007	0.009	8:11	0.011	0.014	-
8:12	0.008	0.008	8:12	0.013	0.014	-
8:13	0.007	0.008	8:13	0.014	0.014	-
8:14	0.006	0.008	8:14	0.015	0.014	-
8:15	0.007	0.007	8:15	0.015	0.014	-
8:16	0.007	0.007	8:16	0.015	0.014	-
8:17	0.006	0.007	8:17	0.015	0.014	-
8:18	0.009	0.007	8:18	0.023	0.015	-
8:19	0.008	0.007	8:19	0.015	0.015	-
8:20	0.008	0.007	8:20	0.015	0.015	-
8:21	0.008	0.007	8:21	0.016	0.015	-
8:22	0.008	0.007	8:22	0.015	0.015	-
8:23	0.010	0.007	8:23	0.014	0.015	-
8:24	0.010	0.008	8:24	0.016	0.015	-
8:25	0.010	0.008	8:25	0.029	0.016	-
8:26	0.011	0.008	8:26	0.051	0.019	-
8:27	0.011	0.008	8:27	0.020	0.019	-
8:28	0.009	0.009	8:28	0.033	0.020	-
8:29	0.012	0.009	8:29	0.027	0.021	-
8:30	0.010	0.009	8:30	0.032	0.022	-
8:31	0.010	0.009	8:31	0.021	0.023	-
8:32	0.010	0.010	8:32	0.021	0.023	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
8:33	0.010	0.010	8:33	0.021	0.023	-
8:34	0.008	0.010	8:34	0.018	0.023	-
8:35	0.009	0.010	8:35	0.021	0.024	-
8:36	0.010	0.010	8:36	0.024	0.024	-
8:37	0.011	0.010	8:37	0.021	0.025	-
8:38	0.011	0.010	8:38	0.020	0.025	-
8:39	0.013	0.010	8:39	0.016	0.025	-
8:40	0.013	0.011	8:40	0.018	0.024	-
8:41	0.014	0.011	8:41	0.035	0.023	-
8:42	0.012	0.011	8:42	0.024	0.023	-
8:43	0.012	0.011	8:43	0.029	0.023	-
8:44	0.013	0.011	8:44	0.017	0.023	-
8:45	0.016	0.011	8:45	0.014	0.021	-
8:46	0.017	0.012	8:46	0.014	0.021	-
8:47	0.011	0.012	8:47	0.014	0.020	-
8:48	0.009	0.012	8:48	0.012	0.020	-
8:49	0.010	0.012	8:49	0.015	0.020	-
8:50	0.010	0.012	8:50	0.014	0.019	-
8:51	0.013	0.012	8:51	0.016	0.019	-
8:52	0.014	0.013	8:52	0.015	0.018	-
8:53	0.013	0.013	8:53	0.014	0.018	-
8:54	0.010	0.012	8:54	0.018	0.018	-
8:55	0.009	0.012	8:55	0.014	0.018	-
8:56	0.009	0.012	8:56	0.015	0.016	-
8:57	0.008	0.012	8:57	0.014	0.016	-
8:58	0.009	0.011	8:58	0.015	0.015	-
8:59	0.010	0.011	8:59	0.013	0.014	-
9:00	0.009	0.011	9:00	0.017	0.015	-
9:01	0.010	0.010	9:01	0.022	0.015	-
9:02	0.007	0.010	9:02	0.016	0.015	-
9:03	0.008	0.010	9:03	0.019	0.016	-
9:04	0.008	0.010	9:04	0.019	0.016	-
9:05	0.008	0.010	9:05	0.013	0.016	-
9:06	0.009	0.009	9:06	0.016	0.016	-
9:07	0.009	0.009	9:07	0.014	0.016	-
9:08	0.010	0.009	9:08	0.017	0.016	-
9:09	0.010	0.009	9:09	0.016	0.016	-
9:10	0.011	0.009	9:10	0.014	0.016	-
9:11	0.009	0.009	9:11	0.012	0.016	-
9:12	0.010	0.009	9:12	0.014	0.016	-
9:13	0.008	0.009	9:13	0.015	0.016	-
9:14	0.008	0.009	9:14	0.019	0.016	-
9:15	0.009	0.009	9:15	0.015	0.016	-
9:16	0.007	0.009	9:16	0.014	0.016	-
9:17	0.008	0.009	9:17	0.014	0.015	-
9:18	0.008	0.009	9:18	0.016	0.015	-
9:19	0.009	0.009	9:19	0.026	0.016	-
9:20	0.008	0.009	9:20	0.015	0.016	-
9:21	0.008	0.009	9:21	0.013	0.016	-
9:22	0.008	0.009	9:22	0.016	0.016	-
9:23	0.010	0.009	9:23	0.019	0.016	-
9:24	0.009	0.009	9:24	0.013	0.016	-
9:25	0.009	0.009	9:25	0.012	0.016	-
9:26	0.009	0.009	9:26	0.016	0.016	-
9:27	0.010	0.009	9:27	0.018	0.016	-
9:28	0.009	0.009	9:28	0.016	0.016	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
9:29	0.009	0.009	9:29	0.023	0.016	-
9:30	0.010	0.009	9:30	0.044	0.018	-
9:31	0.009	0.009	9:31	0.072	0.022	-
9:32	0.010	0.009	9:32	0.023	0.023	-
9:33	0.008	0.009	9:33	0.018	0.023	-
9:34	0.009	0.009	9:34	0.040	0.024	-
9:35	0.009	0.009	9:35	0.024	0.024	-
9:36	0.010	0.009	9:36	0.022	0.025	-
9:37	0.009	0.009	9:37	0.022	0.025	-
9:38	0.010	0.009	9:38	0.019	0.025	-
9:39	0.014	0.010	9:39	0.033	0.027	-
9:40	0.015	0.010	9:40	0.040	0.029	-
9:41	0.015	0.010	9:41	0.012	0.028	-
9:42	0.012	0.011	9:42	0.017	0.028	-
9:43	0.011	0.011	9:43	0.025	0.029	-
9:44	0.011	0.011	9:44	0.013	0.028	-
9:45	0.010	0.011	9:45	0.017	0.026	-
9:46	0.008	0.011	9:46	0.017	0.023	-
9:47	0.009	0.011	9:47	0.016	0.022	-
9:48	0.011	0.011	9:48	0.013	0.022	-
9:49	0.012	0.011	9:49	0.016	0.020	-
9:50	0.013	0.011	9:50	0.015	0.020	-
9:51	0.010	0.011	9:51	0.022	0.020	-
9:52	0.011	0.011	9:52	0.021	0.020	-
9:53	0.012	0.012	9:53	0.018	0.020	-
9:54	0.013	0.012	9:54	0.016	0.019	-
9:55	0.013	0.011	9:55	0.016	0.017	-
9:56	0.013	0.011	9:56	0.021	0.018	-
9:57	0.012	0.011	9:57	0.024	0.018	-
9:58	0.012	0.011	9:58	0.031	0.018	-
9:59	0.014	0.012	9:59	0.021	0.019	-
10:00	0.016	0.012	10:00	0.018	0.019	-
10:01	0.013	0.012	10:01	0.020	0.019	-
10:02	0.014	0.013	10:02	0.030	0.020	-
10:03	0.016	0.013	10:03	0.019	0.021	-
10:04	0.021	0.014	10:04	0.014	0.020	-
10:05	0.013	0.014	10:05	0.015	0.020	-
10:06	0.015	0.014	10:06	0.014	0.020	-
10:07	0.015	0.014	10:07	0.016	0.020	-
10:08	0.014	0.014	10:08	0.016	0.019	-
10:09	0.014	0.014	10:09	0.013	0.019	-
10:10	0.015	0.014	10:10	0.013	0.019	-
10:11	0.013	0.014	10:11	0.015	0.019	-
10:12	0.012	0.014	10:12	0.014	0.018	-
10:13	0.012	0.014	10:13	0.015	0.017	-
10:14	0.012	0.014	10:14	0.015	0.016	-
10:15	0.011	0.014	10:15	0.018	0.016	-
10:16	0.011	0.014	10:16	0.013	0.016	-
10:17	0.014	0.014	10:17	0.015	0.015	-
10:18	0.012	0.014	10:18	0.016	0.015	-
10:19	0.010	0.013	10:19	0.013	0.015	-
10:20	0.011	0.013	10:20	0.014	0.015	-
10:21	0.011	0.012	10:21	0.015	0.015	-
10:22	0.011	0.012	10:22	0.016	0.015	-
10:23	0.012	0.012	10:23	0.015	0.015	-
10:24	0.012	0.012	10:24	0.015	0.015	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
10:25	0.012	0.012	10:25	0.017	0.015	-
10:26	0.010	0.012	10:26	0.019	0.015	-
10:27	0.012	0.012	10:27	0.019	0.016	-
10:28	0.012	0.012	10:28	0.020	0.016	-
10:29	0.010	0.011	10:29	0.017	0.016	-
10:30	0.010	0.011	10:30	0.019	0.016	-
10:31	0.011	0.011	10:31	0.018	0.017	-
10:32	0.010	0.011	10:32	0.018	0.017	-
10:33	0.010	0.011	10:33	0.020	0.017	-
10:34	0.011	0.011	10:34	0.021	0.018	-
10:35	0.011	0.011	10:35	0.021	0.018	-
10:36	0.013	0.011	10:36	0.025	0.019	-
10:37	0.013	0.011	10:37	0.016	0.019	-
10:38	0.014	0.011	10:38	0.018	0.019	-
10:39	0.014	0.012	10:39	0.015	0.019	-
10:40	0.015	0.012	10:40	0.016	0.019	-
10:41	0.015	0.012	10:41	0.018	0.019	-
10:42	0.014	0.012	10:42	0.017	0.019	-
10:43	0.015	0.012	10:43	0.017	0.018	-
10:44	0.013	0.013	10:44	0.013	0.018	-
10:45	0.011	0.013	10:45	0.020	0.018	-
10:46	0.012	0.013	10:46	0.014	0.018	-
10:47	0.012	0.013	10:47	0.016	0.018	-
10:48	0.012	0.013	10:48	0.015	0.017	-
10:49	0.013	0.013	10:49	0.019	0.017	-
10:50	0.013	0.013	10:50	0.022	0.017	-
10:51	0.013	0.013	10:51	0.029	0.018	-
10:52	0.011	0.013	10:52	0.019	0.018	-
10:53	0.011	0.013	10:53	0.014	0.018	-
10:54	0.011	0.013	10:54	0.015	0.018	-
10:55	0.012	0.013	10:55	0.014	0.017	-
10:56	0.011	0.012	10:56	0.015	0.017	-
10:57	0.010	0.012	10:57	0.012	0.017	-
10:58	0.010	0.012	10:58	0.025	0.017	-
10:59	0.012	0.012	10:59	0.015	0.018	-
11:00	0.014	0.012	11:00	0.014	0.017	-
11:01	0.013	0.012	11:01	0.049	0.020	-
11:02	0.012	0.012	11:02	0.018	0.020	-
11:03	0.011	0.012	11:03	0.012	0.019	-
11:04	0.009	0.012	11:04	0.012	0.019	-
11:05	0.009	0.011	11:05	0.015	0.019	-
11:06	0.009	0.011	11:06	0.015	0.018	-
11:07	0.010	0.011	11:07	0.013	0.017	-
11:08	0.012	0.011	11:08	0.015	0.017	-
11:09	0.011	0.011	11:09	0.011	0.017	-
11:10	0.011	0.011	11:10	0.010	0.017	-
11:11	0.011	0.011	11:11	0.013	0.017	-
11:12	0.009	0.011	11:12	0.016	0.017	-
11:13	0.009	0.011	11:13	0.012	0.016	-
11:14	0.008	0.011	11:14	0.009	0.016	-
11:15	0.009	0.010	11:15	0.011	0.015	-
11:16	0.010	0.010	11:16	0.010	0.013	-
11:17	0.011	0.010	11:17	0.019	0.013	-
11:18	0.011	0.010	11:18	0.021	0.013	-
11:19	0.011	0.010	11:19	0.016	0.014	-
11:20	0.009	0.010	11:20	0.017	0.014	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
11:21	0.010	0.010	11:21	0.016	0.014	-
11:22	0.010	0.010	11:22	0.021	0.014	-
11:23	0.009	0.010	11:23	0.018	0.015	-
11:24	0.009	0.010	11:24	0.023	0.015	-
11:25	0.009	0.010	11:25	0.017	0.016	-
11:26	0.009	0.010	11:26	0.019	0.016	-
11:27	0.013	0.010	11:27	0.025	0.017	-
11:28	0.012	0.010	11:28	0.020	0.017	-
11:29	0.010	0.010	11:29	0.017	0.018	-
11:30	0.010	0.010	11:30	0.023	0.019	-
11:31	0.010	0.010	11:31	0.020	0.019	-
11:32	0.012	0.010	11:32	0.021	0.020	-
11:33	0.013	0.010	11:33	0.016	0.019	-
11:34	0.013	0.011	11:34	0.013	0.019	-
11:35	0.010	0.011	11:35	0.011	0.019	-
11:36	0.011	0.011	11:36	0.014	0.019	-
11:37	0.014	0.011	11:37	0.016	0.018	-
11:38	0.014	0.011	11:38	0.018	0.018	-
11:39	0.012	0.011	11:39	0.013	0.018	-
11:40	0.011	0.012	11:40	0.016	0.017	-
11:41	0.012	0.012	11:41	0.018	0.017	-
11:42	0.012	0.012	11:42	0.020	0.017	-
11:43	0.011	0.012	11:43	0.020	0.017	-
11:44	0.011	0.012	11:44	0.015	0.017	-
11:45	0.012	0.012	11:45	0.012	0.016	-
11:46	0.011	0.012	11:46	0.011	0.016	-
11:47	0.011	0.012	11:47	0.012	0.015	-
11:48	0.011	0.012	11:48	0.013	0.015	-
11:49	0.011	0.012	11:49	0.027	0.016	-
11:50	0.010	0.012	11:50	0.010	0.016	-
11:51	0.010	0.012	11:51	0.014	0.016	-
11:52	0.010	0.011	11:52	0.012	0.015	-
11:53	0.009	0.011	11:53	0.010	0.015	-
11:54	0.008	0.011	11:54	0.009	0.015	-
11:55	0.008	0.010	11:55	0.010	0.014	-
11:56	0.008	0.010	11:56	0.008	0.014	-
11:57	0.009	0.010	11:57	0.008	0.013	-
11:58	0.009	0.010	11:58	0.008	0.012	-
11:59	0.008	0.010	11:59	0.008	0.011	-
12:00	0.008	0.009	12:00	0.009	0.011	-
12:01	0.008	0.009	12:01	0.011	0.011	-
12:02	0.009	0.009	12:02	0.010	0.011	-
12:03	0.009	0.009	12:03	0.008	0.011	-
12:04	0.008	0.009	12:04	0.009	0.010	-
12:05	0.008	0.009	12:05	0.009	0.010	-
12:06	0.009	0.009	12:06	0.009	0.009	-
12:07	0.008	0.008	12:07	0.008	0.009	-
12:08	0.011	0.009	12:08	0.007	0.009	-
12:09	0.009	0.009	12:09	0.008	0.009	-
12:10	0.010	0.009	12:10	0.007	0.008	-
12:11	0.011	0.009	12:11	0.010	0.009	-
12:12	0.010	0.009	12:12	0.012	0.009	-
12:13	0.009	0.009	12:13	0.012	0.009	-
12:14	0.010	0.009	12:14	0.010	0.009	-
12:15	0.009	0.009	12:15	0.007	0.009	-
12:16	0.009	0.009	12:16	0.006	0.009	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
12:17	0.008	0.009	12:17	0.007	0.009	-
12:18	0.008	0.009	12:18	0.007	0.009	-
12:19	0.009	0.009	12:19	0.008	0.008	-
12:20	0.010	0.009	12:20	0.007	0.008	-
12:21	0.010	0.009	12:21	0.006	0.008	-
12:22	0.008	0.009	12:22	0.006	0.008	-
12:23	0.007	0.009	12:23	0.006	0.008	-
12:24	0.009	0.009	12:24	0.007	0.008	-
12:25	0.007	0.009	12:25	0.006	0.008	-
12:26	0.006	0.009	12:26	0.006	0.008	-
12:27	0.007	0.008	12:27	0.010	0.007	-
12:28	0.008	0.008	12:28	0.009	0.007	-
12:29	0.007	0.008	12:29	0.006	0.007	-
12:30	0.007	0.008	12:30	0.006	0.007	-
12:31	0.007	0.008	12:31	0.005	0.007	-
12:32	0.006	0.008	12:32	0.007	0.007	-
12:33	0.007	0.008	12:33	0.008	0.007	-
12:34	0.007	0.008	12:34	0.010	0.007	-
12:35	0.007	0.007	12:35	0.009	0.007	-
12:36	0.008	0.007	12:36	0.009	0.007	-
12:37	0.009	0.007	12:37	0.011	0.008	-
12:38	0.008	0.007	12:38	0.008	0.008	-
12:39	0.006	0.007	12:39	0.007	0.008	-
12:40	0.007	0.007	12:40	0.009	0.008	-
12:41	0.006	0.007	12:41	0.007	0.008	-
12:42	0.007	0.007	12:42	0.008	0.008	-
12:43	0.008	0.007	12:43	0.014	0.008	-
12:44	0.011	0.007	12:44	0.009	0.008	-
12:45	0.010	0.008	12:45	0.011	0.009	-
12:46	0.009	0.008	12:46	0.011	0.009	-
12:47	0.008	0.008	12:47	0.008	0.009	-
12:48	0.005	0.008	12:48	0.007	0.009	-
12:49	0.005	0.008	12:49	0.008	0.009	-
12:50	0.006	0.008	12:50	0.009	0.009	-
12:51	0.012	0.008	12:51	0.005	0.009	-
12:52	0.035	0.010	12:52	0.007	0.009	-
12:53	0.006	0.009	12:53	0.005	0.008	-
12:54	0.005	0.009	12:54	0.011	0.009	-
12:55	0.006	0.009	12:55	0.007	0.008	-
12:56	0.006	0.009	12:56	0.005	0.008	-
12:57	0.005	0.009	12:57	0.006	0.008	-
12:58	0.006	0.009	12:58	0.007	0.008	-
12:59	0.005	0.009	12:59	0.005	0.007	-
13:00	0.005	0.008	13:00	0.005	0.007	-
13:01	0.004	0.008	13:01	0.005	0.007	-
13:02	0.004	0.008	13:02	0.005	0.006	-
13:03	0.004	0.008	13:03	0.004	0.006	-
13:04	0.004	0.008	13:04	0.007	0.006	-
13:05	0.004	0.007	13:05	0.005	0.006	-
13:06	0.003	0.007	13:06	0.007	0.006	-
13:07	0.004	0.005	13:07	0.008	0.006	-
13:08	0.005	0.005	13:08	0.017	0.007	-
13:09	0.004	0.005	13:09	0.017	0.007	-
13:10	0.004	0.004	13:10	0.011	0.008	-
13:11	0.003	0.004	13:11	0.008	0.008	-
13:12	0.003	0.004	13:12	0.006	0.008	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
13:13	0.003	0.004	13:13	0.007	0.008	-
13:14	0.004	0.004	13:14	0.007	0.008	-
13:15	0.004	0.004	13:15	0.007	0.008	-
13:16	0.007	0.004	13:16	0.007	0.008	-
13:17	0.007	0.004	13:17	0.010	0.009	-
13:18	0.017	0.005	13:18	0.011	0.009	-
13:19	0.012	0.006	13:19	0.015	0.010	-
13:20	0.006	0.006	13:20	0.014	0.010	-
13:21	0.005	0.006	13:21	0.016	0.011	-
13:22	0.005	0.006	13:22	0.013	0.011	-
13:23	0.005	0.006	13:23	0.015	0.011	-
13:24	0.005	0.006	13:24	0.013	0.011	-
13:25	0.006	0.006	13:25	0.011	0.011	-
13:26	0.006	0.006	13:26	0.011	0.011	-
13:27	0.006	0.007	13:27	0.010	0.011	-
13:28	0.008	0.007	13:28	0.006	0.011	-
13:29	0.012	0.007	13:29	0.005	0.011	-
13:30	0.011	0.008	13:30	0.008	0.011	-
13:31	0.010	0.008	13:31	0.009	0.011	-
13:32	0.009	0.008	13:32	0.008	0.011	-
13:33	0.011	0.008	13:33	0.007	0.011	-
13:34	0.010	0.008	13:34	0.008	0.010	-
13:35	0.008	0.008	13:35	0.006	0.010	-
13:36	0.007	0.008	13:36			
13:37	0.006	0.008	13:37			
13:38	0.005	0.008	13:38			
13:39	0.006	0.008	13:39			
13:40	0.006	0.008	13:40			

Friday, April 07, 2017						
Number of Instances Where Downwind VOCs Exceeds Upwind VOCs + 5 ppm =						0
Number of Comparable Data Points =						339
PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
7:40	0.1		7:40			
7:41	0.1		7:41			
7:42	0.0		7:42	0.3		
7:43	0.0		7:43	0.4		
7:44	0.0		7:44	0.2		
7:45	0.0		7:45	0.0		
7:46	0.1		7:46	0.1		
7:47	0.0		7:47	0.1		
7:48	0.1		7:48	0.0		
7:49	0.1		7:49	0.0		
7:50	0.0		7:50	0.0		
7:51	0.1		7:51	0.0		
7:52	0.1		7:52	0.0		
7:53	0.0		7:53	0.0		
7:54	0.1		7:54	0.0		
7:55	0.1		7:55	0.0		
7:56	0.1	0.1	7:56	0.0	0.1	-
7:57	0.1	0.1	7:57	0.0	0.1	-
7:58	0.1	0.1	7:58	0.0	0.0	-
7:59	0.1	0.1	7:59	0.0	0.0	-
8:00	0.0	0.1	8:00	0.0	0.0	-
8:01	0.1	0.1	8:01	0.0	0.0	-
8:02	0.1	0.1	8:02	0.0	0.0	-
8:03	0.1	0.1	8:03	0.0	0.0	-
8:04	0.1	0.1	8:04	0.0	0.0	-
8:05	0.1	0.1	8:05	0.0	0.0	-
8:06	0.1	0.1	8:06	0.0	0.0	-
8:07	0.1	0.1	8:07	0.0	0.0	-
8:08	0.1	0.1	8:08	0.0	0.0	-
8:09	0.1	0.1	8:09	0.0	0.0	-
8:10	0.1	0.1	8:10	0.0	0.0	-
8:11	0.1	0.1	8:11	0.0	0.0	-
8:12	0.1	0.1	8:12	0.0	0.0	-
8:13	0.1	0.1	8:13	0.0	0.0	-
8:14	0.1	0.1	8:14	0.0	0.0	-
8:15	0.1	0.1	8:15	0.0	0.0	-
8:16	0.1	0.1	8:16	0.0	0.0	-
8:17	0.1	0.1	8:17	0.0	0.0	-
8:18	0.1	0.1	8:18	0.0	0.0	-
8:19	0.1	0.1	8:19	0.0	0.0	-
8:20	0.1	0.1	8:20	0.0	0.0	-
8:21	0.1	0.1	8:21	0.0	0.0	-
8:22	0.1	0.1	8:22	0.1	0.0	-
8:23	0.1	0.1	8:23	0.0	0.0	-
8:24	0.1	0.1	8:24	0.1	0.0	-
8:25	0.1	0.1	8:25	0.0	0.0	-
8:26	0.1	0.1	8:26	0.0	0.0	-
8:27	0.1	0.1	8:27	0.1	0.0	-
8:28	0.1	0.1	8:28	0.1	0.0	-
8:29	0.1	0.1	8:29	0.1	0.0	-
8:30	0.1	0.1	8:30	0.0	0.0	-
8:31	0.1	0.1	8:31	0.1	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
8:32	0.1	0.1	8:32	0.1	0.0	-
8:33	0.1	0.1	8:33	0.0	0.0	-
8:34	0.1	0.1	8:34	0.0	0.0	-
8:35	0.1	0.1	8:35	0.1	0.1	-
8:36	0.1	0.1	8:36	0.0	0.1	-
8:37	0.1	0.1	8:37	0.0	0.0	-
8:38	0.1	0.1	8:38	0.0	0.0	-
8:39	0.1	0.1	8:39	0.0	0.0	-
8:40	0.1	0.1	8:40	0.1	0.0	-
8:41	0.1	0.1	8:41	0.1	0.1	-
8:42	0.1	0.1	8:42	0.0	0.0	-
8:43	0.1	0.1	8:43	0.0	0.0	-
8:44	0.1	0.1	8:44	0.0	0.0	-
8:45	0.1	0.1	8:45	0.0	0.0	-
8:46	0.1	0.1	8:46	0.1	0.0	-
8:47	0.1	0.1	8:47	0.0	0.0	-
8:48	0.1	0.1	8:48	0.0	0.0	-
8:49	0.1	0.1	8:49	0.0	0.0	-
8:50	0.1	0.1	8:50	0.0	0.0	-
8:51	0.1	0.1	8:51	0.0	0.0	-
8:52	0.1	0.1	8:52	0.0	0.0	-
8:53	0.1	0.1	8:53	0.0	0.0	-
8:54	0.1	0.1	8:54	0.1	0.0	-
8:55	0.1	0.1	8:55	0.1	0.0	-
8:56	0.1	0.1	8:56	0.1	0.0	-
8:57	0.1	0.1	8:57	0.1	0.0	-
8:58	0.1	0.1	8:58	0.0	0.0	-
8:59	0.1	0.1	8:59	0.1	0.0	-
9:00	0.1	0.1	9:00	0.1	0.0	-
9:01	0.1	0.1	9:01	0.1	0.0	-
9:02	0.1	0.1	9:02	0.0	0.0	-
9:03	0.1	0.1	9:03	0.1	0.1	-
9:04	0.1	0.1	9:04	0.0	0.1	-
9:05	0.1	0.1	9:05	0.0	0.1	-
9:06	0.1	0.1	9:06	0.1	0.1	-
9:07	0.1	0.1	9:07	0.1	0.1	-
9:08	0.1	0.1	9:08	0.1	0.1	-
9:09	0.1	0.1	9:09	0.1	0.1	-
9:10	0.1	0.1	9:10	0.0	0.1	-
9:11	0.1	0.1	9:11	0.0	0.1	-
9:12	0.1	0.1	9:12	0.0	0.1	-
9:13	0.1	0.1	9:13	0.0	0.1	-
9:14	0.1	0.1	9:14	0.0	0.0	-
9:15	0.1	0.1	9:15	0.0	0.0	-
9:16	0.1	0.1	9:16	0.0	0.0	-
9:17	0.1	0.1	9:17	0.0	0.0	-
9:18	0.1	0.1	9:18	0.1	0.0	-
9:19	0.1	0.1	9:19	0.1	0.0	-
9:20	0.1	0.1	9:20	0.0	0.0	-
9:21	0.1	0.1	9:21	0.1	0.0	-
9:22	0.1	0.1	9:22	0.1	0.0	-
9:23	0.1	0.1	9:23	0.0	0.0	-
9:24	0.1	0.1	9:24	0.0	0.0	-
9:25	0.1	0.1	9:25	0.0	0.0	-
9:26	0.1	0.1	9:26	0.3	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
9:27	0.1	0.1	9:27	0.4	0.1	-
9:28	0.1	0.1	9:28	0.8	0.1	-
9:29	0.1	0.1	9:29	1.1	0.2	-
9:30	0.1	0.1	9:30	0.9	0.3	-
9:31	0.1	0.1	9:31	0.4	0.3	-
9:32	0.1	0.1	9:32	0.5	0.3	-
9:33	0.1	0.1	9:33	1.0	0.4	-
9:34	0.1	0.1	9:34	0.7	0.4	-
9:35	0.1	0.1	9:35	0.7	0.5	-
9:36	0.1	0.1	9:36	0.6	0.5	-
9:37	0.1	0.1	9:37	0.6	0.5	-
9:38	0.1	0.1	9:38	1.5	0.6	-
9:39	0.1	0.1	9:39	0.9	0.7	-
9:40	0.1	0.1	9:40	0.1	0.7	-
9:41	0.1	0.1	9:41	0.4	0.7	-
9:42	0.1	0.1	9:42	1.3	0.8	-
9:43	0.1	0.1	9:43	0.1	0.7	-
9:44	0.1	0.1	9:44	0.1	0.7	-
9:45	0.1	0.1	9:45	0.1	0.6	-
9:46	0.1	0.1	9:46	0.1	0.6	-
9:47	0.1	0.1	9:47	0.0	0.5	-
9:48	0.1	0.1	9:48	0.1	0.5	-
9:49	0.1	0.1	9:49	0.0	0.4	-
9:50	0.1	0.1	9:50	0.1	0.4	-
9:51	0.1	0.1	9:51	0.1	0.4	-
9:52	0.1	0.1	9:52	0.0	0.3	-
9:53	0.1	0.1	9:53	0.0	0.2	-
9:54	0.1	0.1	9:54	0.0	0.2	-
9:55	0.1	0.1	9:55	0.0	0.2	-
9:56	0.1	0.1	9:56	0.1	0.1	-
9:57	0.1	0.1	9:57	0.2	0.1	-
9:58	0.1	0.1	9:58	0.0	0.1	-
9:59	0.1	0.1	9:59	0.0	0.1	-
10:00	0.1	0.1	10:00	0.0	0.0	-
10:01	0.1	0.1	10:01	0.0	0.0	-
10:02	0.1	0.1	10:02	0.0	0.0	-
10:03	0.1	0.1	10:03	0.0	0.0	-
10:04	0.1	0.1	10:04	0.0	0.0	-
10:05	0.1	0.1	10:05	0.0	0.0	-
10:06	0.1	0.1	10:06	0.0	0.0	-
10:07	0.1	0.1	10:07	0.0	0.0	-
10:08	0.1	0.1	10:08	0.0	0.0	-
10:09	0.1	0.1	10:09	0.0	0.0	-
10:10	0.1	0.1	10:10	0.0	0.0	-
10:11	0.1	0.1	10:11	0.0	0.0	-
10:12	0.1	0.1	10:12	0.1	0.0	-
10:13	0.1	0.1	10:13	0.0	0.0	-
10:14	0.1	0.1	10:14	0.0	0.0	-
10:15	0.1	0.1	10:15	0.0	0.0	-
10:16	0.1	0.1	10:16	0.0	0.0	-
10:17	0.1	0.1	10:17	0.0	0.0	-
10:18	0.1	0.1	10:18	0.0	0.0	-
10:19	0.1	0.1	10:19	0.0	0.0	-
10:20	0.1	0.1	10:20	0.0	0.0	-
10:21	0.1	0.1	10:21	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
10:22	0.1	0.1	10:22	0.0	0.0	-
10:23	0.1	0.1	10:23	0.0	0.0	-
10:24	0.1	0.1	10:24	0.0	0.0	-
10:25	0.1	0.1	10:25	0.0	0.0	-
10:26	0.1	0.1	10:26	0.0	0.0	-
10:27	0.1	0.1	10:27	0.0	0.0	-
10:28	0.1	0.1	10:28	0.0	0.0	-
10:29	0.1	0.1	10:29	0.0	0.0	-
10:30	0.1	0.1	10:30	0.0	0.0	-
10:31	0.1	0.1	10:31	0.0	0.0	-
10:32	0.1	0.1	10:32	0.0	0.0	-
10:33	0.1	0.1	10:33	0.0	0.0	-
10:34	0.1	0.1	10:34	0.0	0.0	-
10:35	0.1	0.1	10:35	0.0	0.0	-
10:36	0.1	0.1	10:36	0.0	0.0	-
10:37	0.1	0.1	10:37	0.0	0.0	-
10:38	0.1	0.1	10:38	0.0	0.0	-
10:39	0.1	0.1	10:39	0.0	0.0	-
10:40	0.1	0.1	10:40	0.0	0.0	-
10:41	0.1	0.1	10:41	0.0	0.0	-
10:42	0.1	0.1	10:42	0.0	0.0	-
10:43	0.1	0.1	10:43	0.0	0.0	-
10:44	0.1	0.1	10:44	0.0	0.0	-
10:45	0.1	0.1	10:45	0.0	0.0	-
10:46	0.1	0.1	10:46	0.0	0.0	-
10:47	0.1	0.1	10:47	0.0	0.0	-
10:48	0.1	0.1	10:48	0.0	0.0	-
10:49	0.1	0.1	10:49	0.1	0.0	-
10:50	0.1	0.1	10:50	0.0	0.0	-
10:51	0.1	0.1	10:51	0.0	0.0	-
10:52	0.1	0.1	10:52	0.0	0.0	-
10:53	0.1	0.1	10:53	0.0	0.0	-
10:54	0.1	0.1	10:54	0.0	0.0	-
10:55	0.1	0.1	10:55	0.0	0.0	-
10:56	0.1	0.1	10:56	0.1	0.0	-
10:57	0.1	0.1	10:57	0.0	0.0	-
10:58	0.1	0.1	10:58	0.0	0.0	-
10:59	0.1	0.1	10:59	0.0	0.0	-
11:00	0.1	0.1	11:00	0.0	0.0	-
11:01	0.1	0.1	11:01	0.0	0.0	-
11:02	0.1	0.1	11:02	0.0	0.0	-
11:03	0.1	0.1	11:03	0.0	0.0	-
11:04	0.1	0.1	11:04	0.0	0.0	-
11:05	0.1	0.1	11:05	0.0	0.0	-
11:06	0.1	0.1	11:06	0.0	0.0	-
11:07	0.1	0.1	11:07	0.0	0.0	-
11:08	0.1	0.1	11:08	0.0	0.0	-
11:09	0.1	0.1	11:09	0.0	0.0	-
11:10	0.1	0.1	11:10	0.0	0.0	-
11:11	0.1	0.1	11:11	0.0	0.0	-
11:12	0.1	0.1	11:12	0.0	0.0	-
11:13	0.1	0.1	11:13	0.0	0.0	-
11:14	0.1	0.1	11:14	0.0	0.0	-
11:15	0.1	0.1	11:15	0.0	0.0	-
11:16	0.1	0.1	11:16	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
11:17	0.1	0.1	11:17	0.0	0.0	-
11:18	0.1	0.1	11:18	0.1	0.0	-
11:19	0.1	0.1	11:19	0.1	0.0	-
11:20	0.1	0.1	11:20	0.1	0.0	-
11:21	0.1	0.1	11:21	0.1	0.0	-
11:22	0.1	0.1	11:22	0.1	0.0	-
11:23	0.1	0.1	11:23	0.0	0.0	-
11:24	0.1	0.1	11:24	0.0	0.0	-
11:25	0.1	0.1	11:25	0.0	0.0	-
11:26	0.1	0.1	11:26	0.1	0.0	-
11:27	0.1	0.1	11:27	0.0	0.0	-
11:28	0.1	0.1	11:28	0.0	0.0	-
11:29	0.1	0.1	11:29	0.0	0.0	-
11:30	0.1	0.1	11:30	0.0	0.0	-
11:31	0.1	0.1	11:31	0.1	0.0	-
11:32	0.1	0.1	11:32	0.0	0.0	-
11:33	0.1	0.1	11:33	0.0	0.0	-
11:34	0.1	0.1	11:34	0.0	0.0	-
11:35	0.1	0.1	11:35	0.0	0.0	-
11:36	0.1	0.1	11:36	0.0	0.0	-
11:37	0.1	0.1	11:37	0.0	0.0	-
11:38	0.1	0.1	11:38	0.0	0.0	-
11:39	0.1	0.1	11:39	0.0	0.0	-
11:40	0.1	0.1	11:40	0.0	0.0	-
11:41	0.1	0.1	11:41	0.0	0.0	-
11:42	0.1	0.1	11:42	0.0	0.0	-
11:43	0.1	0.1	11:43	0.0	0.0	-
11:44	0.1	0.1	11:44	0.0	0.0	-
11:45	0.1	0.1	11:45	0.0	0.0	-
11:46	0.1	0.1	11:46	0.0	0.0	-
11:47	0.1	0.1	11:47	0.0	0.0	-
11:48	0.1	0.1	11:48	0.0	0.0	-
11:49	0.1	0.1	11:49	0.0	0.0	-
11:50	0.1	0.1	11:50	0.0	0.0	-
11:51	0.1	0.1	11:51	0.0	0.0	-
11:52	0.1	0.1	11:52	0.0	0.0	-
11:53	0.1	0.1	11:53	0.0	0.0	-
11:54	0.1	0.1	11:54	0.0	0.0	-
11:55	0.1	0.1	11:55	0.0	0.0	-
11:56	0.1	0.1	11:56	0.0	0.0	-
11:57	0.1	0.1	11:57	0.0	0.0	-
11:58	0.1	0.1	11:58	0.0	0.0	-
11:59	0.1	0.1	11:59	0.0	0.0	-
12:00	0.1	0.1	12:00	0.0	0.0	-
12:01	0.1	0.1	12:01	0.0	0.0	-
12:02	0.1	0.1	12:02	0.0	0.0	-
12:03	0.1	0.1	12:03	0.0	0.0	-
12:04	0.1	0.1	12:04	0.0	0.0	-
12:05	0.1	0.1	12:05	0.0	0.0	-
12:06	0.1	0.1	12:06	0.0	0.0	-
12:07	0.1	0.1	12:07	0.0	0.0	-
12:08	0.1	0.1	12:08	0.0	0.0	-
12:09	0.1	0.1	12:09	0.0	0.0	-
12:10	0.1	0.1	12:10	0.0	0.0	-
12:11	0.1	0.1	12:11	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
12:12	0.1	0.1	12:12	0.0	0.0	-
12:13	0.1	0.1	12:13	0.0	0.0	-
12:14	0.1	0.1	12:14	0.0	0.0	-
12:15	0.1	0.1	12:15	0.0	0.0	-
12:16	0.1	0.1	12:16	0.0	0.0	-
12:17	0.1	0.1	12:17	0.0	0.0	-
12:18	0.1	0.1	12:18	0.0	0.0	-
12:19	0.1	0.1	12:19	0.0	0.0	-
12:20	0.1	0.1	12:20	0.0	0.0	-
12:21	0.1	0.1	12:21	0.0	0.0	-
12:22	0.1	0.1	12:22	0.0	0.0	-
12:23	0.1	0.1	12:23	0.0	0.0	-
12:24	0.1	0.1	12:24	0.0	0.0	-
12:25	0.1	0.1	12:25	0.0	0.0	-
12:26	0.1	0.1	12:26	0.0	0.0	-
12:27	0.1	0.1	12:27	0.0	0.0	-
12:28	0.1	0.1	12:28	0.0	0.0	-
12:29	0.1	0.1	12:29	0.0	0.0	-
12:30	0.1	0.1	12:30	0.0	0.0	-
12:31	0.1	0.1	12:31	0.0	0.0	-
12:32	0.1	0.1	12:32	0.0	0.0	-
12:33	0.1	0.1	12:33	0.0	0.0	-
12:34	0.1	0.1	12:34	0.0	0.0	-
12:35	0.1	0.1	12:35	0.0	0.0	-
12:36	0.1	0.1	12:36	0.0	0.0	-
12:37	0.1	0.1	12:37	0.0	0.0	-
12:38	0.1	0.1	12:38	0.0	0.0	-
12:39	0.1	0.1	12:39	0.0	0.0	-
12:40	0.1	0.1	12:40	0.0	0.0	-
12:41	0.1	0.1	12:41	0.0	0.0	-
12:42	0.1	0.1	12:42	0.0	0.0	-
12:43	0.1	0.1	12:43	0.0	0.0	-
12:44	0.1	0.1	12:44	0.0	0.0	-
12:45	0.1	0.1	12:45	0.0	0.0	-
12:46	0.1	0.1	12:46	0.0	0.0	-
12:47	0.1	0.1	12:47	0.0	0.0	-
12:48	0.1	0.1	12:48	0.0	0.0	-
12:49	0.1	0.1	12:49	0.0	0.0	-
12:50	0.1	0.1	12:50	0.0	0.0	-
12:51	0.1	0.1	12:51	0.0	0.0	-
12:52	0.1	0.1	12:52	0.0	0.0	-
12:53	0.1	0.1	12:53	0.0	0.0	-
12:54	0.1	0.1	12:54	0.0	0.0	-
12:55	0.1	0.1	12:55	0.0	0.0	-
12:56	0.1	0.1	12:56	0.0	0.0	-
12:57	0.1	0.1	12:57	0.0	0.0	-
12:58	0.1	0.1	12:58	0.0	0.0	-
12:59	0.1	0.1	12:59	0.0	0.0	-
13:00	0.1	0.1	13:00	0.0	0.0	-
13:01	0.1	0.1	13:01	0.0	0.0	-
13:02	0.1	0.1	13:02	0.0	0.0	-
13:03	0.1	0.1	13:03	0.1	0.0	-
13:04	0.1	0.1	13:04	0.0	0.0	-
13:05	0.1	0.1	13:05	0.0	0.0	-
13:06	0.1	0.1	13:06	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
13:07	0.1	0.1	13:07	0.0	0.0	-
13:08	0.1	0.1	13:08	0.0	0.0	-
13:09	0.1	0.1	13:09	0.0	0.0	-
13:10	0.1	0.1	13:10	0.0	0.0	-
13:11	0.1	0.1	13:11	0.1	0.0	-
13:12	0.1	0.1	13:12	0.0	0.0	-
13:13	0.1	0.1	13:13	0.0	0.0	-
13:14	0.1	0.1	13:14	0.0	0.0	-
13:15	0.1	0.1	13:15	0.1	0.0	-
13:16	0.1	0.1	13:16	0.0	0.0	-
13:17	0.1	0.1	13:17	0.1	0.0	-
13:18	0.1	0.1	13:18	0.0	0.0	-
13:19	0.1	0.1	13:19	0.0	0.0	-
13:20	0.1	0.1	13:20	0.0	0.0	-
13:21	0.1	0.1	13:21	0.0	0.0	-
13:22	0.1	0.1	13:22	0.0	0.0	-
13:23	0.1	0.1	13:23	0.0	0.0	-
13:24	0.1	0.1	13:24	0.0	0.0	-
13:25	0.1	0.1	13:25	0.0	0.0	-
13:26	0.1	0.1	13:26	0.0	0.0	-
13:27	0.1	0.1	13:27	0.0	0.0	-
13:28	0.1	0.1	13:28	0.0	0.0	-
13:29	0.1	0.1	13:29	0.0	0.0	-
13:30	0.1	0.1	13:30	0.0	0.0	-
13:31	0.1	0.1	13:31	0.0	0.0	-
13:32	0.1	0.1	13:32	0.0	0.0	-
13:33	0.1	0.1	13:33	0.0	0.0	-
13:34	0.1	0.1	13:34	0.0	0.0	-
13:35	0.1	0.1	13:35			
13:36	0.1	0.1	13:36			
13:37	0.1	0.1	13:37			
13:38	0.1	0.1	13:38			
13:39	0.1	0.1	13:39			
13:40	0.1	0.1	13:40			

Monday, April 10, 2017						
Number of Instances Where Downwind Particulates Exceeds Upwind Particulate + 0.150 mg/m^3 =						14
Number of Comparable Data Points =						380
PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
7:38	0.046		7:38			
7:39	0.022		7:39			
7:40	0.021		7:40	0.166		
7:41	0.020		7:41	0.042		
7:42	0.019		7:42	0.021		
7:43	0.019		7:43	0.019		
7:44	0.020		7:44	0.034		
7:45	0.017		7:45	0.043		
7:46	0.016		7:46	0.036		
7:47	0.015		7:47	0.064		
7:48	0.016		7:48	0.044		
7:49	0.016		7:49	0.254		
7:50	0.017		7:50	0.047		
7:51	0.020		7:51	0.039		
7:52	0.020	0.020	7:52	0.034		
7:53	0.030	0.019	7:53	0.030		
7:54	0.027	0.020	7:54	0.043	0.061	-
7:55	0.023	0.020	7:55	0.034	0.052	-
7:56	0.022	0.020	7:56	0.042	0.052	-
7:57	0.020	0.020	7:57	0.035	0.053	-
7:58	0.025	0.020	7:58	0.035	0.054	-
7:59	0.024	0.021	7:59	0.040	0.055	-
8:00	0.032	0.022	8:00	0.042	0.055	-
8:01	0.039	0.023	8:01	0.046	0.055	-
8:02	0.046	0.025	8:02	0.183	0.063	-
8:03	0.087	0.030	8:03	0.095	0.067	-
8:04	0.054	0.032	8:04	0.048	0.053	-
8:05	0.039	0.034	8:05	0.044	0.053	-
8:06	0.034	0.035	8:06	0.072	0.055	-
8:07	0.032	0.036	8:07	0.070	0.057	-
8:08	0.035	0.036	8:08	0.045	0.058	-
8:09	0.031	0.036	8:09	0.053	0.059	-
8:10	0.036	0.037	8:10	0.045	0.060	-
8:11	0.037	0.038	8:11	0.041	0.060	-
8:12	0.032	0.039	8:12	0.032	0.059	-
8:13	0.022	0.039	8:13	0.022	0.059	-
8:14	0.022	0.039	8:14	0.025	0.058	-
8:15	0.027	0.038	8:15	0.031	0.057	-
8:16	0.027	0.037	8:16	0.024	0.055	-
8:17	0.037	0.037	8:17	0.020	0.044	-
8:18	0.026	0.033	8:18	0.114	0.046	-
8:19	0.024	0.031	8:19	0.093	0.049	-
8:20	0.025	0.030	8:20	0.057	0.050	-
8:21	0.023	0.029	8:21	0.034	0.047	-
8:22	0.023	0.028	8:22	0.018	0.044	-
8:23	0.021	0.028	8:23	0.020	0.042	-
8:24	0.022	0.027	8:24	0.031	0.040	-
8:25	0.035	0.027	8:25	0.062	0.042	-
8:26	0.048	0.028	8:26	0.167	0.050	-
8:27	0.042	0.028	8:27	0.076	0.053	-
8:28	0.039	0.029	8:28	0.040	0.054	-
8:29	0.038	0.030	8:29	0.054	0.056	-
8:30	0.038	0.031	8:30	0.034	0.056	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
8:31	0.030	0.031	8:31	0.032	0.057	-
8:32	0.027	0.031	8:32	0.026	0.057	-
8:33	0.031	0.031	8:33	0.029	0.052	-
8:34	0.028	0.031	8:34	0.025	0.047	-
8:35	0.030	0.032	8:35	0.029	0.045	-
8:36	0.031	0.032	8:36	0.031	0.045	-
8:37	0.035	0.033	8:37	0.027	0.046	-
8:38	0.028	0.033	8:38	0.022	0.046	-
8:39	0.024	0.034	8:39	0.023	0.045	-
8:40	0.019	0.033	8:40	0.026	0.043	-
8:41	0.022	0.031	8:41	0.111	0.039	-
8:42	0.028	0.030	8:42	0.046	0.037	-
8:43	0.026	0.029	8:43	0.030	0.036	-
8:44	0.024	0.028	8:44	0.029	0.035	-
8:45	0.020	0.027	8:45	0.069	0.037	-
8:46	0.020	0.026	8:46	0.031	0.037	-
8:47	0.022	0.026	8:47	0.025	0.037	-
8:48	0.023	0.025	8:48	0.023	0.036	-
8:49	0.024	0.025	8:49	0.028	0.037	-
8:50	0.023	0.025	8:50	0.031	0.037	-
8:51	0.022	0.024	8:51	0.028	0.037	-
8:52	0.027	0.023	8:52	0.037	0.037	-
8:53	0.028	0.023	8:53	0.025	0.037	-
8:54	0.026	0.024	8:54	0.018	0.037	-
8:55	0.018	0.024	8:55	0.017	0.037	-
8:56	0.014	0.023	8:56	0.019	0.030	-
8:57	0.023	0.023	8:57	0.024	0.029	-
8:58	0.023	0.022	8:58	0.023	0.028	-
8:59	0.017	0.022	8:59	0.022	0.028	-
9:00	0.027	0.022	9:00	0.020	0.025	-
9:01	0.023	0.023	9:01	0.017	0.024	-
9:02	0.022	0.023	9:02	0.016	0.023	-
9:03	0.020	0.022	9:03	0.044	0.025	-
9:04	0.022	0.022	9:04	0.050	0.026	-
9:05	0.019	0.022	9:05	0.030	0.026	-
9:06	0.020	0.022	9:06	0.018	0.025	-
9:07	0.025	0.022	9:07	0.016	0.024	-
9:08	0.025	0.022	9:08	0.020	0.024	-
9:09	0.026	0.022	9:09	0.030	0.024	-
9:10	0.018	0.022	9:10	0.068	0.028	-
9:11	0.016	0.022	9:11	0.040	0.029	-
9:12	0.016	0.021	9:12	0.044	0.031	-
9:13	0.020	0.021	9:13	0.029	0.031	-
9:14	0.026	0.022	9:14	0.116	0.037	-
9:15	0.026	0.022	9:15	0.100	0.043	-
9:16	0.024	0.022	9:16	0.021	0.043	-
9:17	0.021	0.022	9:17	0.024	0.043	-
9:18	0.021	0.022	9:18	0.023	0.042	-
9:19	0.020	0.022	9:19	0.057	0.042	-
9:20	0.020	0.022	9:20	0.029	0.042	-
9:21	0.022	0.022	9:21	0.020	0.042	-
9:22	0.024	0.022	9:22	0.043	0.044	-
9:23	0.027	0.022	9:23	0.030	0.045	-
9:24	0.024	0.022	9:24	0.044	0.046	-
9:25	0.021	0.022	9:25	0.047	0.044	-
9:26	0.019	0.022	9:26	0.043	0.045	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
9:27	0.035	0.023	9:27	0.072	0.047	-
9:28	0.027	0.024	9:28	0.178	0.056	-
9:29	0.026	0.024	9:29	0.021	0.050	-
9:30	0.022	0.024	9:30	0.022	0.045	-
9:31	0.019	0.023	9:31	0.026	0.045	-
9:32	0.018	0.023	9:32	0.035	0.046	-
9:33	0.018	0.023	9:33	0.062	0.049	-
9:34	0.025	0.023	9:34	0.031	0.047	-
9:35	0.021	0.023	9:35	0.037	0.047	-
9:36	0.025	0.023	9:36	0.030	0.048	-
9:37	0.021	0.023	9:37	0.026	0.047	-
9:38	0.021	0.023	9:38	0.024	0.047	-
9:39	0.022	0.023	9:39	0.036	0.046	-
9:40	0.029	0.023	9:40	0.107	0.050	-
9:41	0.021	0.023	9:41	0.095	0.053	-
9:42	0.020	0.022	9:42	0.031	0.051	-
9:43	0.022	0.022	9:43	0.017	0.040	-
9:44	0.020	0.022	9:44	0.022	0.040	-
9:45	0.026	0.022	9:45	0.029	0.041	-
9:46	0.027	0.022	9:46	0.035	0.041	-
9:47	0.027	0.023	9:47	0.034	0.041	-
9:48	0.026	0.024	9:48	0.024	0.039	-
9:49	0.025	0.024	9:49	0.023	0.038	-
9:50	0.028	0.024	9:50	0.020	0.037	-
9:51	0.023	0.024	9:51	0.024	0.036	-
9:52	0.021	0.024	9:52	0.022	0.036	-
9:53	0.021	0.024	9:53	0.021	0.036	-
9:54	0.021	0.024	9:54	0.018	0.035	-
9:55	0.022	0.023	9:55	0.019	0.029	-
9:56	0.024	0.024	9:56	0.020	0.024	-
9:57	0.025	0.024	9:57	0.031	0.024	-
9:58	0.024	0.024	9:58	0.022	0.024	-
9:59	0.024	0.024	9:59	0.021	0.024	-
10:00	0.024	0.024	10:00	0.034	0.025	-
10:01	0.025	0.024	10:01	0.022	0.024	-
10:02	0.024	0.024	10:02	0.025	0.023	-
10:03	0.034	0.024	10:03	0.025	0.023	-
10:04	0.030	0.025	10:04	0.037	0.024	-
10:05	0.023	0.024	10:05	0.028	0.025	-
10:06	0.023	0.024	10:06	0.020	0.024	-
10:07	0.029	0.025	10:07	0.022	0.024	-
10:08	0.031	0.026	10:08	0.032	0.025	-
10:09	0.031	0.026	10:09	0.038	0.026	-
10:10	0.028	0.027	10:10	0.032	0.027	-
10:11	0.030	0.027	10:11	0.029	0.028	-
10:12	0.031	0.027	10:12	0.030	0.028	-
10:13	0.047	0.029	10:13	0.032	0.028	-
10:14	0.039	0.030	10:14	0.045	0.030	-
10:15	0.042	0.031	10:15	0.096	0.034	-
10:16	0.041	0.032	10:16	0.075	0.038	-
10:17	0.047	0.034	10:17	0.054	0.040	-
10:18	0.049	0.035	10:18	0.086	0.044	-
10:19	0.046	0.036	10:19	0.041	0.044	-
10:20	0.043	0.037	10:20	0.055	0.046	-
10:21	0.046	0.039	10:21	0.057	0.048	-
10:22	0.045	0.040	10:22	0.045	0.050	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
10:23	0.035	0.040	10:23	0.034	0.050	-
10:24	0.043	0.041	10:24	0.037	0.050	-
10:25	0.045	0.042	10:25	0.053	0.051	-
10:26	0.050	0.043	10:26	0.057	0.053	-
10:27	0.046	0.044	10:27	0.043	0.054	-
10:28	0.042	0.044	10:28	0.073	0.057	-
10:29	0.041	0.044	10:29	0.066	0.058	-
10:30	0.035	0.044	10:30	0.138	0.061	-
10:31	0.044	0.044	10:31	0.080	0.061	-
10:32	0.043	0.044	10:32	0.046	0.061	-
10:33	0.040	0.043	10:33	0.050	0.058	-
10:34	0.040	0.043	10:34	0.059	0.060	-
10:35	0.037	0.042	10:35	0.062	0.060	-
10:36	0.036	0.041	10:36	0.058	0.060	-
10:37	0.057	0.042	10:37	0.072	0.062	-
10:38	0.044	0.043	10:38	0.039	0.062	-
10:39	0.037	0.042	10:39	0.037	0.062	-
10:40	0.031	0.042	10:40	0.048	0.062	-
10:41	0.035	0.041	10:41	0.047	0.061	-
10:42	0.035	0.040	10:42	0.038	0.061	-
10:43	0.028	0.039	10:43	0.042	0.059	-
10:44	0.028	0.038	10:44	0.092	0.061	-
10:45	0.028	0.038	10:45	0.135	0.060	-
10:46	0.029	0.037	10:46	0.047	0.058	-
10:47	0.031	0.036	10:47	0.030	0.057	-
10:48	0.034	0.035	10:48	0.033	0.056	-
10:49	0.037	0.035	10:49	0.044	0.055	-
10:50	0.040	0.035	10:50	0.082	0.056	-
10:51	0.041	0.036	10:51	0.293	0.072	-
10:52	0.042	0.035	10:52	0.260	0.084	-
10:53	0.046	0.035	10:53	0.509	0.116	-
10:54	0.039	0.035	10:54	1.440	0.209	X
10:55	0.036	0.035	10:55	0.089	0.212	X
10:56	0.043	0.036	10:56	0.092	0.215	X
10:57	0.047	0.037	10:57	0.099	0.219	X
10:58	0.053	0.038	10:58	0.060	0.220	X
10:59	0.057	0.040	10:59	0.062	0.218	X
11:00	0.060	0.042	11:00	0.179	0.221	X
11:01	0.057	0.044	11:01	0.195	0.231	X
11:02	0.057	0.046	11:02	0.133	0.238	X
11:03	0.060	0.048	11:03	0.080	0.241	X
11:04	0.062	0.049	11:04	0.061	0.242	X
11:05	0.063	0.051	11:05	0.065	0.241	X
11:06	0.059	0.052	11:06	0.075	0.227	X
11:07	0.056	0.053	11:07	0.072	0.214	X
11:08	0.046	0.053	11:08	0.090	0.186	-
11:09	0.038	0.053	11:09	0.093	0.096	-
11:10	0.042	0.053	11:10	0.087	0.096	-
11:11	0.043	0.053	11:11	0.053	0.094	-
11:12	0.049	0.053	11:12	0.067	0.091	-
11:13	0.055	0.054	11:13	0.062	0.092	-
11:14	0.063	0.054	11:14	0.059	0.091	-
11:15	0.060	0.054	11:15	0.100	0.086	-
11:16	0.054	0.054	11:16	0.088	0.079	-
11:17	0.054	0.054	11:17	0.183	0.082	-
11:18	0.057	0.053	11:18	0.069	0.082	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
11:19	0.057	0.053	11:19	0.077	0.083	-
11:20	0.050	0.052	11:20	0.188	0.091	-
11:21	0.046	0.051	11:21	0.055	0.090	-
11:22	0.044	0.051	11:22	0.050	0.088	-
11:23	0.035	0.050	11:23	0.047	0.085	-
11:24	0.040	0.050	11:24	0.047	0.082	-
11:25	0.039	0.050	11:25	0.043	0.079	-
11:26	0.041	0.050	11:26	0.065	0.080	-
11:27	0.037	0.049	11:27	0.127	0.084	-
11:28	0.028	0.047	11:28	0.041	0.083	-
11:29	0.023	0.044	11:29	0.026	0.080	-
11:30	0.024	0.042	11:30	0.023	0.075	-
11:31	0.025	0.040	11:31	0.039	0.072	-
11:32	0.027	0.038	11:32	0.030	0.062	-
11:33	0.026	0.036	11:33	0.037	0.060	-
11:34	0.030	0.034	11:34	0.031	0.057	-
11:35	0.022	0.032	11:35	0.087	0.050	-
11:36	0.021	0.031	11:36	0.120	0.054	-
11:37	0.022	0.029	11:37	0.028	0.053	-
11:38	0.022	0.028	11:38	0.029	0.052	-
11:39	0.022	0.027	11:39	0.137	0.058	-
11:40	0.023	0.026	11:40	0.044	0.058	-
11:41	0.023	0.025	11:41	0.032	0.055	-
11:42	0.022	0.024	11:42	0.059	0.051	-
11:43	0.024	0.024	11:43	0.354	0.072	-
11:44	0.024	0.024	11:44	0.092	0.076	-
11:45	0.023	0.024	11:45	0.202	0.088	-
11:46	0.023	0.024	11:46	0.096	0.092	-
11:47	0.024	0.023	11:47	0.044	0.093	-
11:48	0.026	0.023	11:48	0.051	0.094	-
11:49	0.030	0.023	11:49	0.049	0.095	-
11:50	0.028	0.024	11:50	0.034	0.091	-
11:51	0.028	0.024	11:51	0.027	0.085	-
11:52	0.028	0.025	11:52	0.055	0.087	-
11:53	0.028	0.025	11:53	0.166	0.096	-
11:54	0.028	0.025	11:54	0.034	0.089	-
11:55	0.028	0.026	11:55	0.219	0.101	-
11:56	0.028	0.026	11:56	0.044	0.102	-
11:57	0.028	0.027	11:57	0.038	0.100	-
11:58	0.029	0.027	11:58	0.026	0.078	-
11:59	0.032	0.027	11:59	0.042	0.075	-
12:00	0.034	0.028	12:00	0.072	0.066	-
12:01	0.036	0.029	12:01	0.045	0.063	-
12:02	0.037	0.030	12:02	0.075	0.065	-
12:03	0.039	0.031	12:03	0.037	0.064	-
12:04	0.051	0.032	12:04	0.042	0.064	-
12:05	0.047	0.033	12:05	0.046	0.065	-
12:06	0.046	0.035	12:06	0.041	0.065	-
12:07	0.046	0.036	12:07	0.041	0.065	-
12:08	0.045	0.037	12:08	0.039	0.056	-
12:09	0.043	0.038	12:09	0.039	0.056	-
12:10	0.044	0.039	12:10	0.043	0.045	-
12:11	0.047	0.040	12:11	0.035	0.044	-
12:12	0.043	0.041	12:12	0.037	0.044	-
12:13	0.041	0.042	12:13	0.036	0.045	-
12:14	0.041	0.043	12:14	0.035	0.044	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
12:15	0.039	0.043	12:15	0.033	0.042	-
12:16	0.038	0.043	12:16	0.038	0.041	-
12:17	0.038	0.043	12:17	0.030	0.038	-
12:18	0.036	0.043	12:18	0.031	0.038	-
12:19	0.037	0.042	12:19	0.029	0.037	-
12:20	0.037	0.041	12:20	0.029	0.036	-
12:21	0.036	0.041	12:21	0.030	0.035	-
12:22	0.036	0.040	12:22	0.029	0.034	-
12:23	0.036	0.039	12:23	0.029	0.034	-
12:24	0.043	0.039	12:24	0.028	0.033	-
12:25	0.048	0.040	12:25	0.027	0.032	-
12:26	0.037	0.039	12:26	0.026	0.031	-
12:27	0.033	0.038	12:27	0.025	0.030	-
12:28	0.032	0.038	12:28	0.024	0.030	-
12:29	0.032	0.037	12:29	0.023	0.029	-
12:30	0.031	0.037	12:30	0.024	0.028	-
12:31	0.031	0.036	12:31	0.023	0.027	-
12:32	0.029	0.036	12:32	0.021	0.027	-
12:33	0.029	0.035	12:33	0.022	0.026	-
12:34	0.028	0.035	12:34	0.020	0.025	-
12:35	0.029	0.034	12:35	0.021	0.025	-
12:36	0.028	0.033	12:36	0.029	0.025	-
12:37	0.028	0.033	12:37	0.027	0.025	-
12:38	0.028	0.032	12:38	0.021	0.024	-
12:39	0.027	0.031	12:39	0.019	0.023	-
12:40	0.026	0.030	12:40	0.018	0.023	-
12:41	0.026	0.029	12:41	0.017	0.022	-
12:42	0.026	0.029	12:42	0.023	0.022	-
12:43	0.026	0.028	12:43	0.018	0.022	-
12:44	0.026	0.028	12:44	0.022	0.022	-
12:45	0.026	0.028	12:45	0.042	0.023	-
12:46	0.026	0.027	12:46	0.025	0.023	-
12:47	0.026	0.027	12:47	0.025	0.023	-
12:48	0.027	0.027	12:48	0.020	0.023	-
12:49	0.041	0.028	12:49	0.024	0.023	-
12:50	0.030	0.028	12:50	0.036	0.024	-
12:51	0.025	0.028	12:51	0.036	0.025	-
12:52	0.027	0.028	12:52	0.031	0.025	-
12:53	0.025	0.027	12:53	0.026	0.025	-
12:54	0.025	0.027	12:54	0.055	0.028	-
12:55	0.025	0.027	12:55	0.045	0.030	-
12:56	0.025	0.027	12:56	0.030	0.031	-
12:57	0.026	0.027	12:57	0.038	0.032	-
12:58	0.027	0.027	12:58	0.031	0.032	-
12:59	0.027	0.027	12:59	0.019	0.032	-
13:00	0.027	0.027	13:00	0.040	0.032	-
13:01	0.026	0.027	13:01	0.023	0.032	-
13:02	0.026	0.027	13:02	0.017	0.031	-
13:03	0.026	0.027	13:03	0.018	0.031	-
13:04	0.026	0.026	13:04	0.018	0.031	-
13:05	0.026	0.026	13:05	0.017	0.030	-
13:06	0.025	0.026	13:06	0.044	0.030	-
13:07	0.025	0.026	13:07	0.018	0.029	-
13:08	0.025	0.026	13:08	0.028	0.029	-
13:09	0.026	0.026	13:09	0.022	0.027	-
13:10	0.025	0.026	13:10	0.025	0.026	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
13:11	0.026	0.026	13:11	0.019	0.025	-
13:12	0.026	0.026	13:12	0.022	0.024	-
13:13	0.028	0.026	13:13	0.068	0.027	-
13:14	0.025	0.026	13:14	0.041	0.028	-
13:15	0.025	0.026	13:15	0.135	0.034	-
13:16	0.025	0.026	13:16	0.023	0.034	-
13:17	0.026	0.026	13:17	0.144	0.043	-
13:18	0.026	0.026	13:18	0.081	0.047	-
13:19	0.027	0.026	13:19	0.090	0.052	-
13:20	0.028	0.026	13:20	0.195	0.064	-
13:21	0.028	0.026	13:21	0.286	0.080	-
13:22	0.027	0.026	13:22	0.059	0.083	-
13:23	0.027	0.026	13:23	0.144	0.090	-
13:24	0.027	0.026	13:24	0.060	0.093	-
13:25	0.027	0.027	13:25	0.062	0.095	-
13:26	0.027	0.027	13:26	0.071	0.099	-
13:27	0.027	0.027	13:27	0.033	0.099	-
13:28	0.027	0.027	13:28	0.085	0.101	-
13:29	0.027	0.027	13:29	0.062	0.102	-
13:30	0.028	0.027	13:30	0.039	0.096	-
13:31	0.026	0.027	13:31	0.039	0.097	-
13:32	0.026	0.027	13:32	0.050	0.090	-
13:33	0.027	0.027	13:33	0.036	0.087	-
13:34	0.026	0.027	13:34	0.058	0.085	-
13:35	0.027	0.027	13:35	0.041	0.075	-
13:36	0.027	0.027	13:36	0.043	0.059	-
13:37	0.027	0.027	13:37	0.037	0.057	-
13:38	0.026	0.027	13:38	0.026	0.049	-
13:39	0.026	0.027	13:39	0.020	0.047	-
13:40	0.027	0.027	13:40	0.032	0.045	-
13:41	0.026	0.027	13:41	0.028	0.042	-
13:42	0.026	0.027	13:42	0.023	0.041	-
13:43	0.026	0.027	13:43	0.037	0.038	-
13:44	0.026	0.026	13:44	0.049	0.037	-
13:45	0.026	0.026	13:45	0.041	0.037	-
13:46	0.032	0.027	13:46	0.027	0.037	-
13:47	0.026	0.027	13:47	0.024	0.035	-
13:48	0.027	0.027	13:48	0.020	0.034	-
13:49	0.026	0.027	13:49	0.025	0.032	-
13:50	0.026	0.027	13:50	0.020	0.030	-
13:51	0.025	0.027	13:51	0.018	0.028	-
13:52	0.026	0.026	13:52	0.029	0.028	-
13:53	0.026	0.026	13:53	0.033	0.028	-
13:54	0.026	0.026	13:54	0.038	0.030	-
13:55	0.026	0.026	13:55	0.029	0.029	-
13:56	0.026	0.026	13:56	0.028	0.029	-
13:57	0.031	0.027	13:57	0.036	0.030	-
13:58	0.025	0.027	13:58	0.043	0.031	-
13:59	0.026	0.027	13:59	0.037	0.030	-
14:00	0.026	0.027	14:00	0.031	0.029	-
14:01	0.026	0.026	14:01	0.024	0.029	-
14:02	0.026	0.026	14:02	0.025	0.029	-
14:03	0.026	0.026	14:03	0.042	0.031	-
14:04	0.026	0.026	14:04	0.037	0.031	-
14:05	0.026	0.026	14:05	0.035	0.032	-
14:06	0.026	0.026	14:06	0.030	0.033	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
14:07	0.028	0.026	14:07	0.026	0.033	-
14:08	0.029	0.027	14:08	0.026	0.032	-
14:09	0.027	0.027	14:09	0.050	0.033	-
14:10	0.028	0.027	14:10	0.052	0.035	-
14:11	0.028	0.027	14:11	0.026	0.035	-
14:12	0.026	0.027	14:12	0.024	0.034	-
14:13	0.027	0.027	14:13	0.026	0.033	-
14:14	0.026	0.027	14:14	0.041	0.033	-
14:15	0.026	0.027	14:15	0.039	0.034	-
14:16	0.026	0.027	14:16	0.024	0.034	-
14:17	0.026	0.027	14:17	0.028	0.034	-
14:18	0.027	0.027	14:18	0.021	0.032	-
14:19	0.027	0.027	14:19	0.035	0.032	-
14:20	0.028	0.027	14:20	0.034	0.032	-
14:21	0.028	0.027	14:21	0.028	0.032	-
14:22	0.026	0.027	14:22	0.029	0.032	-
14:23	0.026	0.027	14:23	0.025	0.032	-
14:24	0.027	0.027	14:24	0.026	0.031	-
14:25	0.026	0.027	14:25	0.034	0.029	-
14:26	0.026	0.027	14:26	0.034	0.030	-
14:27	0.027	0.027	14:27	0.045	0.031	-
14:28	0.026	0.027	14:28	0.029	0.031	-
14:29	0.026	0.027	14:29	0.027	0.031	-
14:30	0.027	0.027	14:30	0.024	0.030	-
14:31	0.028	0.027	14:31	0.069	0.033	-
14:32	0.026	0.027	14:32	0.027	0.032	-
14:33	0.027	0.027	14:33	0.036	0.033	-
14:34	0.028	0.027	14:34	0.097	0.038	-
14:35	0.030	0.027	14:35	0.038	0.038	-
14:36	0.028	0.027	14:36	0.059	0.040	-
14:37	0.035	0.028	14:37	0.089	0.044	-
14:38	0.026	0.028	14:38	0.033	0.044	-
14:39	0.026	0.027	14:39	0.048	0.046	-
14:40	0.028	0.028	14:40	0.071	0.048	-
14:41	0.027	0.028	14:41	0.031	0.048	-
14:42	0.027	0.028	14:42	0.025	0.047	-
14:43	0.028	0.028	14:43	0.025	0.047	-
14:44	0.028	0.028	14:44	0.023	0.046	-
14:45	0.027	0.028	14:45	0.019	0.046	-
14:46	0.027	0.028	14:46	0.025	0.043	-
14:47	0.026	0.028	14:47	0.028	0.043	-
14:48	0.026	0.028	14:48	0.020	0.042	-
14:49	0.026	0.028	14:49	0.027	0.037	-
14:50	0.027	0.027	14:50	0.022	0.036	-
14:51	0.028	0.027	14:51	0.022	0.034	-
14:52	0.026	0.027	14:52	0.020	0.029	-
14:53	0.027	0.027	14:53	0.018	0.028	-
14:54	0.027	0.027	14:54	0.019	0.026	-
14:55	0.027	0.027	14:55	0.025	0.023	-
14:56	0.027	0.027	14:56	0.024	0.023	-
14:57	0.028	0.027	14:57	0.028	0.023	-
14:58	0.027	0.027	14:58	0.022	0.023	-
14:59	0.026	0.027	14:59	0.021	0.023	-
15:00	0.027	0.027	15:00	0.028	0.023	-
15:01	0.027	0.027	15:01	0.018	0.023	-
15:02	0.026	0.027	15:02	0.019	0.022	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
15:03	0.026	0.027	15:03	0.018	0.022	-
15:04	0.026	0.027	15:04	0.017	0.021	-
15:05	0.026	0.027	15:05	0.016	0.021	-
15:06	0.026	0.027	15:06	0.017	0.021	-
15:07	0.026	0.027	15:07	0.017	0.020	-
15:08	0.026	0.027	15:08	0.029	0.021	-
15:09	0.027	0.027	15:09	0.025	0.022	-
15:10	0.027	0.027	15:10	0.025	0.022	-
15:11	0.027	0.027	15:11	0.021	0.021	-
15:12	0.027	0.026	15:12	0.021	0.021	-
15:13	0.028	0.027	15:13	0.021	0.021	-
15:14	0.028	0.027	15:14	0.021	0.021	-
15:15	0.027	0.027	15:15	0.020	0.020	-
15:16			15:16	0.021	0.021	
15:17			15:17	0.022	0.021	
15:18			15:18	0.021	0.021	
15:19			15:19	0.019	0.021	
15:20			15:20	0.018	0.021	
15:21			15:21	0.020	0.021	
15:22			15:22	0.022	0.022	
15:23			15:23	0.023	0.021	

Monday, April 10, 2017						
Number of Instances Where Downwind VOCs Exceeds Upwind VOCs + 5 ppm =						0
Number of Comparable Data Points =						441
PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
7:38	0.0		7:38			
7:39	0.0		7:39			
7:40	0.0		7:40			
7:41	0.0		7:41	0.0		
7:42	0.0		7:42	0.0		
7:43	0.0		7:43	0.0		
7:44	0.0		7:44	0.0		
7:45	0.0		7:45	0.0		
7:46	0.0		7:46	0.0		
7:47	0.0		7:47	0.0		
7:48	0.0		7:48	0.0		
7:49	0.0		7:49	0.0		
7:50	0.0		7:50	0.0		
7:51	0.0		7:51	0.0		
7:52	0.0	0.0	7:52	0.0		
7:53	0.0	0.0	7:53	0.0		
7:54	0.0	0.0	7:54	0.0		
7:55	0.0	0.0	7:55	0.0	0.0	-
7:56	0.0	0.0	7:56	0.0	0.0	-
7:57	0.0	0.0	7:57	0.0	0.0	-
7:58	0.0	0.0	7:58	0.0	0.0	-
7:59	0.0	0.0	7:59	0.0	0.0	-
8:00	0.0	0.0	8:00	0.0	0.0	-
8:01	0.0	0.0	8:01	0.0	0.0	-
8:02	0.0	0.0	8:02	1.6	0.1	-
8:03	0.0	0.0	8:03	0.4	0.1	-
8:04	0.0	0.0	8:04	0.5	0.2	-
8:05	0.0	0.0	8:05	0.5	0.2	-
8:06	0.0	0.0	8:06	1.1	0.3	-
8:07	0.0	0.0	8:07	0.4	0.3	-
8:08	0.0	0.0	8:08	0.1	0.3	-
8:09	0.0	0.0	8:09	0.5	0.3	-
8:10	0.0	0.0	8:10	0.1	0.3	-
8:11	0.0	0.0	8:11	0.0	0.3	-
8:12	0.0	0.0	8:12	0.0	0.3	-
8:13	0.0	0.0	8:13	0.0	0.3	-
8:14	0.0	0.0	8:14	0.0	0.3	-
8:15	0.0	0.0	8:15	0.0	0.3	-
8:16	0.0	0.0	8:16	0.0	0.3	-
8:17	0.0	0.0	8:17	0.0	0.2	-
8:18	0.0	0.0	8:18	0.9	0.3	-
8:19	0.0	0.0	8:19	1.1	0.3	-
8:20	0.0	0.0	8:20	1.0	0.3	-
8:21	0.0	0.0	8:21	0.2	0.3	-
8:22	0.0	0.0	8:22	0.0	0.3	-
8:23	0.0	0.0	8:23	0.0	0.3	-
8:24	0.0	0.0	8:24	0.0	0.2	-
8:25	0.0	0.0	8:25	0.0	0.2	-
8:26	0.0	0.0	8:26	0.2	0.2	-
8:27	0.0	0.0	8:27	0.0	0.2	-
8:28	0.0	0.0	8:28	0.0	0.2	-
8:29	0.0	0.0	8:29	0.0	0.2	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
8:30	0.0	0.0	8:30	0.0	0.2	-
8:31	0.0	0.0	8:31	0.0	0.2	-
8:32	0.0	0.0	8:32	0.0	0.2	-
8:33	0.0	0.0	8:33	0.0	0.2	-
8:34	0.0	0.0	8:34	0.0	0.1	-
8:35	0.0	0.0	8:35	0.0	0.0	-
8:36	0.0	0.0	8:36	0.0	0.0	-
8:37	0.0	0.0	8:37	0.0	0.0	-
8:38	0.0	0.0	8:38	0.0	0.0	-
8:39	0.0	0.0	8:39	0.0	0.0	-
8:40	0.0	0.0	8:40	0.0	0.0	-
8:41	0.0	0.0	8:41	0.8	0.1	-
8:42	0.0	0.0	8:42	0.1	0.1	-
8:43	0.0	0.0	8:43	0.0	0.1	-
8:44	0.0	0.0	8:44	0.0	0.1	-
8:45	0.0	0.0	8:45	0.0	0.1	-
8:46	0.0	0.0	8:46	0.0	0.1	-
8:47	0.0	0.0	8:47	0.0	0.1	-
8:48	0.0	0.0	8:48	0.0	0.1	-
8:49	0.0	0.0	8:49	0.0	0.1	-
8:50	0.0	0.0	8:50	0.0	0.1	-
8:51	0.0	0.0	8:51	0.0	0.1	-
8:52	0.0	0.0	8:52	0.0	0.1	-
8:53	0.0	0.0	8:53	0.0	0.1	-
8:54	0.0	0.0	8:54	0.0	0.1	-
8:55	0.0	0.0	8:55	0.0	0.1	-
8:56	0.0	0.0	8:56	0.0	0.0	-
8:57	0.0	0.0	8:57	0.0	0.0	-
8:58	0.0	0.0	8:58	0.0	0.0	-
8:59	0.0	0.0	8:59	0.0	0.0	-
9:00	0.0	0.0	9:00	0.0	0.0	-
9:01	0.0	0.0	9:01	0.0	0.0	-
9:02	0.0	0.0	9:02	0.0	0.0	-
9:03	0.0	0.0	9:03	0.0	0.0	-
9:04	0.0	0.0	9:04	0.0	0.0	-
9:05	0.0	0.0	9:05	0.0	0.0	-
9:06	0.0	0.0	9:06	0.0	0.0	-
9:07	0.0	0.0	9:07	0.0	0.0	-
9:08	0.0	0.0	9:08	0.0	0.0	-
9:09	0.0	0.0	9:09	0.0	0.0	-
9:10	0.0	0.0	9:10	0.0	0.0	-
9:11	0.0	0.0	9:11	0.0	0.0	-
9:12	0.0	0.0	9:12	0.0	0.0	-
9:13	0.0	0.0	9:13	0.0	0.0	-
9:14	0.0	0.0	9:14	0.0	0.0	-
9:15	0.0	0.0	9:15	0.0	0.0	-
9:16	0.0	0.0	9:16	0.0	0.0	-
9:17	0.0	0.0	9:17	0.0	0.0	-
9:18	0.0	0.0	9:18	0.0	0.0	-
9:19	0.0	0.0	9:19	0.0	0.0	-
9:20	0.0	0.0	9:20	0.0	0.0	-
9:21	0.0	0.0	9:21	0.0	0.0	-
9:22	0.0	0.0	9:22	0.0	0.0	-
9:23	0.0	0.0	9:23	0.0	0.0	-
9:24	0.0	0.0	9:24	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
9:25	0.0	0.0	9:25	0.0	0.0	-
9:26	0.0	0.0	9:26	0.0	0.0	-
9:27	0.0	0.0	9:27	0.0	0.0	-
9:28	0.0	0.0	9:28	0.0	0.0	-
9:29	0.0	0.0	9:29	0.0	0.0	-
9:30	0.0	0.0	9:30	0.0	0.0	-
9:31	0.0	0.0	9:31	0.0	0.0	-
9:32	0.0	0.0	9:32	0.0	0.0	-
9:33	0.0	0.0	9:33	0.0	0.0	-
9:34	0.0	0.0	9:34	0.0	0.0	-
9:35	0.2	0.0	9:35	0.0	0.0	-
9:36	0.0	0.0	9:36	0.0	0.0	-
9:37	0.0	0.0	9:37	0.0	0.0	-
9:38	0.0	0.0	9:38	0.0	0.0	-
9:39	0.0	0.0	9:39	0.0	0.0	-
9:40	0.0	0.0	9:40	0.0	0.0	-
9:41	0.0	0.0	9:41	0.0	0.0	-
9:42	0.0	0.0	9:42	0.0	0.0	-
9:43	0.0	0.0	9:43	0.0	0.0	-
9:44	0.0	0.0	9:44	0.0	0.0	-
9:45	0.0	0.0	9:45	0.0	0.0	-
9:46	0.0	0.0	9:46	0.0	0.0	-
9:47	0.0	0.0	9:47	0.0	0.0	-
9:48	0.0	0.0	9:48	0.0	0.0	-
9:49	0.0	0.0	9:49	0.0	0.0	-
9:50	0.0	0.0	9:50	0.0	0.0	-
9:51	0.0	0.0	9:51	0.0	0.0	-
9:52	0.0	0.0	9:52	0.0	0.0	-
9:53	0.0	0.0	9:53	2.7	0.2	-
9:54	0.0	0.0	9:54	0.0	0.2	-
9:55	0.0	0.0	9:55	0.0	0.2	-
9:56	0.0	0.0	9:56	0.0	0.2	-
9:57	0.0	0.0	9:57	0.0	0.2	-
9:58	0.0	0.0	9:58	0.0	0.2	-
9:59	0.0	0.0	9:59	0.0	0.2	-
10:00	0.0	0.0	10:00	0.0	0.2	-
10:01	0.0	0.0	10:01	0.0	0.2	-
10:02	0.0	0.0	10:02	1.5	0.3	-
10:03	0.0	0.0	10:03	0.0	0.3	-
10:04	0.0	0.0	10:04	0.0	0.3	-
10:05	0.0	0.0	10:05	0.6	0.3	-
10:06	0.0	0.0	10:06	0.1	0.3	-
10:07	0.0	0.0	10:07	0.0	0.3	-
10:08	0.0	0.0	10:08	0.0	0.1	-
10:09	0.0	0.0	10:09	0.0	0.1	-
10:10	0.0	0.0	10:10	0.0	0.1	-
10:11	0.0	0.0	10:11	0.0	0.1	-
10:12	0.0	0.0	10:12	0.0	0.1	-
10:13	0.0	0.0	10:13	0.0	0.1	-
10:14	0.0	0.0	10:14	0.0	0.1	-
10:15	0.0	0.0	10:15	0.0	0.1	-
10:16	0.0	0.0	10:16	0.0	0.1	-
10:17	0.0	0.0	10:17	0.0	0.0	-
10:18	0.0	0.0	10:18	0.0	0.0	-
10:19	0.0	0.0	10:19	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
10:20	0.0	0.0	10:20	0.0	0.0	-
10:21	0.0	0.0	10:21	0.0	0.0	-
10:22	0.0	0.0	10:22	0.0	0.0	-
10:23	0.0	0.0	10:23	0.0	0.0	-
10:24	0.0	0.0	10:24	0.0	0.0	-
10:25	0.0	0.0	10:25	0.0	0.0	-
10:26	0.0	0.0	10:26	0.0	0.0	-
10:27	0.0	0.0	10:27	0.0	0.0	-
10:28	0.0	0.0	10:28	0.0	0.0	-
10:29	0.0	0.0	10:29	0.0	0.0	-
10:30	0.0	0.0	10:30	0.0	0.0	-
10:31	0.0	0.0	10:31	0.0	0.0	-
10:32	0.0	0.0	10:32	0.0	0.0	-
10:33	0.0	0.0	10:33	0.0	0.0	-
10:34	0.0	0.0	10:34	0.0	0.0	-
10:35	0.0	0.0	10:35	0.0	0.0	-
10:36	0.0	0.0	10:36	0.0	0.0	-
10:37	0.0	0.0	10:37	0.0	0.0	-
10:38	0.0	0.0	10:38	0.0	0.0	-
10:39	0.0	0.0	10:39	0.0	0.0	-
10:40	0.0	0.0	10:40	0.0	0.0	-
10:41	0.0	0.0	10:41	0.0	0.0	-
10:42	0.0	0.0	10:42	0.0	0.0	-
10:43	0.0	0.0	10:43	0.0	0.0	-
10:44	0.0	0.0	10:44	0.0	0.0	-
10:45	0.0	0.0	10:45	0.0	0.0	-
10:46	0.0	0.0	10:46	0.0	0.0	-
10:47	0.0	0.0	10:47	0.0	0.0	-
10:48	0.0	0.0	10:48	0.0	0.0	-
10:49	0.0	0.0	10:49	0.0	0.0	-
10:50	0.0	0.0	10:50	0.0	0.0	-
10:51	0.0	0.0	10:51	0.0	0.0	-
10:52	0.0	0.0	10:52	0.0	0.0	-
10:53	0.0	0.0	10:53	0.0	0.0	-
10:54	0.0	0.0	10:54	0.0	0.0	-
10:55	0.0	0.0	10:55	0.0	0.0	-
10:56	0.0	0.0	10:56	0.0	0.0	-
10:57	0.0	0.0	10:57	0.0	0.0	-
10:58	0.0	0.0	10:58	0.0	0.0	-
10:59	0.0	0.0	10:59	0.0	0.0	-
11:00	0.0	0.0	11:00	0.0	0.0	-
11:01	0.0	0.0	11:01	0.0	0.0	-
11:02	0.0	0.0	11:02	0.0	0.0	-
11:03	0.0	0.0	11:03	0.0	0.0	-
11:04	0.0	0.0	11:04	0.0	0.0	-
11:05	0.0	0.0	11:05	0.0	0.0	-
11:06	0.0	0.0	11:06	0.0	0.0	-
11:07	0.0	0.0	11:07	0.0	0.0	-
11:08	0.0	0.0	11:08	0.0	0.0	-
11:09	0.0	0.0	11:09	0.0	0.0	-
11:10	0.0	0.0	11:10	0.0	0.0	-
11:11	0.0	0.0	11:11	0.0	0.0	-
11:12	0.0	0.0	11:12	0.0	0.0	-
11:13	0.0	0.0	11:13	0.0	0.0	-
11:14	0.0	0.0	11:14	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
11:15	0.0	0.0	11:15	0.0	0.0	-
11:16	0.0	0.0	11:16	0.0	0.0	-
11:17	0.0	0.0	11:17	0.0	0.0	-
11:18	0.0	0.0	11:18	0.0	0.0	-
11:19	0.0	0.0	11:19	0.0	0.0	-
11:20	0.0	0.0	11:20	0.0	0.0	-
11:21	0.0	0.0	11:21	0.0	0.0	-
11:22	0.0	0.0	11:22	0.0	0.0	-
11:23	0.0	0.0	11:23	0.0	0.0	-
11:24	0.0	0.0	11:24	0.0	0.0	-
11:25	0.0	0.0	11:25	0.0	0.0	-
11:26	0.0	0.0	11:26	0.0	0.0	-
11:27	0.0	0.0	11:27	0.0	0.0	-
11:28	0.0	0.0	11:28	0.0	0.0	-
11:29	0.0	0.0	11:29	0.0	0.0	-
11:30	0.0	0.0	11:30	0.0	0.0	-
11:31	0.0	0.0	11:31	0.0	0.0	-
11:32	0.0	0.0	11:32	0.0	0.0	-
11:33	0.0	0.0	11:33	0.0	0.0	-
11:34	0.0	0.0	11:34	0.0	0.0	-
11:35	0.0	0.0	11:35	0.0	0.0	-
11:36	0.0	0.0	11:36	0.0	0.0	-
11:37	0.0	0.0	11:37	0.0	0.0	-
11:38	0.0	0.0	11:38	0.0	0.0	-
11:39	0.0	0.0	11:39	0.0	0.0	-
11:40	0.0	0.0	11:40	0.0	0.0	-
11:41	0.0	0.0	11:41	0.0	0.0	-
11:42	0.0	0.0	11:42	0.0	0.0	-
11:43	0.0	0.0	11:43	0.0	0.0	-
11:44	0.0	0.0	11:44	0.0	0.0	-
11:45	0.0	0.0	11:45	0.0	0.0	-
11:46	0.0	0.0	11:46	0.0	0.0	-
11:47	0.0	0.0	11:47	0.0	0.0	-
11:48	0.0	0.0	11:48	0.0	0.0	-
11:49	0.0	0.0	11:49	0.0	0.0	-
11:50	0.0	0.0	11:50	0.0	0.0	-
11:51	0.0	0.0	11:51	0.0	0.0	-
11:52	0.0	0.0	11:52	0.0	0.0	-
11:53	0.0	0.0	11:53	0.0	0.0	-
11:54	0.0	0.0	11:54	0.0	0.0	-
11:55	0.0	0.0	11:55	0.0	0.0	-
11:56	0.0	0.0	11:56	0.0	0.0	-
11:57	0.0	0.0	11:57	0.0	0.0	-
11:58	0.0	0.0	11:58	0.0	0.0	-
11:59	0.0	0.0	11:59	0.0	0.0	-
12:00	0.0	0.0	12:00	0.0	0.0	-
12:01	0.0	0.0	12:01	0.0	0.0	-
12:02	0.0	0.0	12:02	0.0	0.0	-
12:03	0.0	0.0	12:03	0.0	0.0	-
12:04	0.0	0.0	12:04	0.0	0.0	-
12:05	0.0	0.0	12:05	0.0	0.0	-
12:06	0.0	0.0	12:06	0.0	0.0	-
12:07	0.0	0.0	12:07	0.0	0.0	-
12:08	0.0	0.0	12:08	0.0	0.0	-
12:09	0.0	0.0	12:09	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
12:10	0.0	0.0	12:10	0.0	0.0	-
12:11	0.0	0.0	12:11	0.0	0.0	-
12:12	0.0	0.0	12:12	0.0	0.0	-
12:13	0.0	0.0	12:13	0.0	0.0	-
12:14	0.0	0.0	12:14	0.0	0.0	-
12:15	0.0	0.0	12:15	0.0	0.0	-
12:16	0.0	0.0	12:16	0.0	0.0	-
12:17	0.0	0.0	12:17	0.0	0.0	-
12:18	0.0	0.0	12:18	0.0	0.0	-
12:19	0.0	0.0	12:19	0.0	0.0	-
12:20	0.0	0.0	12:20	0.0	0.0	-
12:21	0.0	0.0	12:21	0.0	0.0	-
12:22	0.0	0.0	12:22	0.0	0.0	-
12:23	0.0	0.0	12:23	0.0	0.0	-
12:24	0.0	0.0	12:24	0.0	0.0	-
12:25	0.0	0.0	12:25	0.0	0.0	-
12:26	0.0	0.0	12:26	0.0	0.0	-
12:27	0.0	0.0	12:27	0.0	0.0	-
12:28	0.0	0.0	12:28	0.0	0.0	-
12:29	0.0	0.0	12:29	0.0	0.0	-
12:30	0.0	0.0	12:30	0.0	0.0	-
12:31	0.0	0.0	12:31	0.0	0.0	-
12:32	0.0	0.0	12:32	0.0	0.0	-
12:33	0.0	0.0	12:33	0.0	0.0	-
12:34	0.0	0.0	12:34	0.0	0.0	-
12:35	0.0	0.0	12:35	0.0	0.0	-
12:36	0.0	0.0	12:36	0.0	0.0	-
12:37	0.0	0.0	12:37	0.0	0.0	-
12:38	0.0	0.0	12:38	0.0	0.0	-
12:39	0.0	0.0	12:39	0.0	0.0	-
12:40	0.0	0.0	12:40	0.0	0.0	-
12:41	0.0	0.0	12:41	0.0	0.0	-
12:42	0.0	0.0	12:42	0.0	0.0	-
12:43	0.0	0.0	12:43	0.0	0.0	-
12:44	0.0	0.0	12:44	0.0	0.0	-
12:45	0.0	0.0	12:45	0.0	0.0	-
12:46	0.0	0.0	12:46	0.0	0.0	-
12:47	0.0	0.0	12:47	0.0	0.0	-
12:48	0.0	0.0	12:48	0.0	0.0	-
12:49	0.0	0.0	12:49	0.0	0.0	-
12:50	0.0	0.0	12:50	0.0	0.0	-
12:51	0.0	0.0	12:51	0.0	0.0	-
12:52	0.0	0.0	12:52	0.0	0.0	-
12:53	0.0	0.0	12:53	0.0	0.0	-
12:54	0.0	0.0	12:54	0.0	0.0	-
12:55	0.0	0.0	12:55	0.0	0.0	-
12:56	0.0	0.0	12:56	0.0	0.0	-
12:57	0.0	0.0	12:57	0.0	0.0	-
12:58	0.0	0.0	12:58	0.0	0.0	-
12:59	0.0	0.0	12:59	0.0	0.0	-
13:00	0.0	0.0	13:00	0.0	0.0	-
13:01	0.0	0.0	13:01	0.0	0.0	-
13:02	0.0	0.0	13:02	0.0	0.0	-
13:03	0.0	0.0	13:03	0.0	0.0	-
13:04	0.0	0.0	13:04	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
13:05	0.0	0.0	13:05	0.0	0.0	-
13:06	0.0	0.0	13:06	0.0	0.0	-
13:07	0.0	0.0	13:07	0.0	0.0	-
13:08	0.0	0.0	13:08	0.0	0.0	-
13:09	0.0	0.0	13:09	0.0	0.0	-
13:10	0.0	0.0	13:10	0.0	0.0	-
13:11	0.0	0.0	13:11	0.0	0.0	-
13:12	0.0	0.0	13:12	0.0	0.0	-
13:13	0.0	0.0	13:13	0.0	0.0	-
13:14	0.0	0.0	13:14	0.0	0.0	-
13:15	0.0	0.0	13:15	0.0	0.0	-
13:16	0.0	0.0	13:16	0.0	0.0	-
13:17	0.0	0.0	13:17	0.0	0.0	-
13:18	0.0	0.0	13:18	0.0	0.0	-
13:19	0.0	0.0	13:19	0.0	0.0	-
13:20	0.0	0.0	13:20	0.0	0.0	-
13:21	0.0	0.0	13:21	0.0	0.0	-
13:22	0.0	0.0	13:22	0.0	0.0	-
13:23	0.0	0.0	13:23	0.0	0.0	-
13:24	0.0	0.0	13:24	0.0	0.0	-
13:25	0.0	0.0	13:25	0.0	0.0	-
13:26	0.0	0.0	13:26	0.0	0.0	-
13:27	0.0	0.0	13:27	0.0	0.0	-
13:28	0.0	0.0	13:28	0.0	0.0	-
13:29	0.0	0.0	13:29	0.0	0.0	-
13:30	0.0	0.0	13:30	0.0	0.0	-
13:31	0.0	0.0	13:31	0.0	0.0	-
13:32	0.0	0.0	13:32	0.0	0.0	-
13:33	0.0	0.0	13:33	0.0	0.0	-
13:34	0.0	0.0	13:34	0.0	0.0	-
13:35	0.0	0.0	13:35	0.0	0.0	-
13:36	0.0	0.0	13:36	0.0	0.0	-
13:37	0.0	0.0	13:37	0.0	0.0	-
13:38	0.0	0.0	13:38	0.0	0.0	-
13:39	0.0	0.0	13:39	0.0	0.0	-
13:40	0.0	0.0	13:40	0.0	0.0	-
13:41	0.0	0.0	13:41	0.0	0.0	-
13:42	0.0	0.0	13:42	0.0	0.0	-
13:43	0.0	0.0	13:43	0.0	0.0	-
13:44	0.0	0.0	13:44	0.0	0.0	-
13:45	0.0	0.0	13:45	0.0	0.0	-
13:46	0.0	0.0	13:46	0.0	0.0	-
13:47	0.0	0.0	13:47	0.0	0.0	-
13:48	0.0	0.0	13:48	0.0	0.0	-
13:49	0.0	0.0	13:49	0.0	0.0	-
13:50	0.0	0.0	13:50	0.0	0.0	-
13:51	0.0	0.0	13:51	0.0	0.0	-
13:52	0.0	0.0	13:52	0.0	0.0	-
13:53	0.0	0.0	13:53	0.0	0.0	-
13:54	0.0	0.0	13:54	0.0	0.0	-
13:55	0.0	0.0	13:55	0.0	0.0	-
13:56	0.0	0.0	13:56	0.0	0.0	-
13:57	0.0	0.0	13:57	0.0	0.0	-
13:58	0.0	0.0	13:58	0.0	0.0	-
13:59	0.0	0.0	13:59	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
14:00	0.0	0.0	14:00	0.0	0.0	-
14:01	0.0	0.0	14:01	0.0	0.0	-
14:02	0.0	0.0	14:02	0.0	0.0	-
14:03	0.0	0.0	14:03	0.0	0.0	-
14:04	0.0	0.0	14:04	0.0	0.0	-
14:05	0.0	0.0	14:05	0.0	0.0	-
14:06	0.0	0.0	14:06	0.0	0.0	-
14:07	0.0	0.0	14:07	0.0	0.0	-
14:08	0.0	0.0	14:08	0.0	0.0	-
14:09	0.0	0.0	14:09	0.0	0.0	-
14:10	0.0	0.0	14:10	0.0	0.0	-
14:11	0.0	0.0	14:11	0.0	0.0	-
14:12	0.0	0.0	14:12	0.0	0.0	-
14:13	0.0	0.0	14:13	0.0	0.0	-
14:14	0.0	0.0	14:14	0.0	0.0	-
14:15	0.0	0.0	14:15	0.0	0.0	-
14:16	0.0	0.0	14:16	0.0	0.0	-
14:17	0.0	0.0	14:17	0.0	0.0	-
14:18	0.0	0.0	14:18	0.0	0.0	-
14:19	0.0	0.0	14:19	0.0	0.0	-
14:20	0.0	0.0	14:20	0.0	0.0	-
14:21	0.0	0.0	14:21	0.0	0.0	-
14:22	0.0	0.0	14:22	0.0	0.0	-
14:23	0.0	0.0	14:23	0.0	0.0	-
14:24	0.0	0.0	14:24	0.0	0.0	-
14:25	0.0	0.0	14:25	0.0	0.0	-
14:26	0.0	0.0	14:26	0.0	0.0	-
14:27	0.0	0.0	14:27	0.0	0.0	-
14:28	0.0	0.0	14:28	0.0	0.0	-
14:29	0.0	0.0	14:29	0.0	0.0	-
14:30	0.0	0.0	14:30	0.0	0.0	-
14:31	0.0	0.0	14:31	0.0	0.0	-
14:32	0.0	0.0	14:32	0.0	0.0	-
14:33	0.0	0.0	14:33	0.0	0.0	-
14:34	0.0	0.0	14:34	0.0	0.0	-
14:35	0.0	0.0	14:35	0.0	0.0	-
14:36	0.0	0.0	14:36	0.0	0.0	-
14:37	0.0	0.0	14:37	0.1	0.0	-
14:38	0.0	0.0	14:38	0.0	0.0	-
14:39	0.0	0.0	14:39	0.0	0.0	-
14:40	0.0	0.0	14:40	0.0	0.0	-
14:41	0.0	0.0	14:41	0.0	0.0	-
14:42	0.0	0.0	14:42	0.0	0.0	-
14:43	0.0	0.0	14:43	0.0	0.0	-
14:44	0.0	0.0	14:44	0.0	0.0	-
14:45	0.0	0.0	14:45	0.0	0.0	-
14:46	0.0	0.0	14:46	0.0	0.0	-
14:47	0.0	0.0	14:47	0.0	0.0	-
14:48	0.0	0.0	14:48	0.0	0.0	-
14:49	0.0	0.0	14:49	0.0	0.0	-
14:50	0.0	0.0	14:50	0.0	0.0	-
14:51	0.0	0.0	14:51	0.0	0.0	-
14:52	0.0	0.0	14:52	0.0	0.0	-
14:53	0.0	0.0	14:53	0.0	0.0	-
14:54	0.0	0.0	14:54	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
14:55	0.0	0.0	14:55	0.0	0.0	-
14:56	0.0	0.0	14:56	0.0	0.0	-
14:57	0.0	0.0	14:57	0.0	0.0	-
14:58	0.0	0.0	14:58	0.0	0.0	-
14:59	0.0	0.0	14:59	0.0	0.0	-
15:00	0.0	0.0	15:00	0.0	0.0	-
15:01	0.0	0.0	15:01	0.0	0.0	-
15:02	0.0	0.0	15:02	0.0	0.0	-
15:03	0.0	0.0	15:03	0.0	0.0	-
15:04	0.0	0.0	15:04	0.0	0.0	-
15:05	0.0	0.0	15:05	0.0	0.0	-
15:06	0.0	0.0	15:06	0.0	0.0	-
15:07	0.0	0.0	15:07	0.0	0.0	-
15:08	0.0	0.0	15:08	0.0	0.0	-
15:09	0.0	0.0	15:09	0.0	0.0	-
15:10	0.0	0.0	15:10	0.0	0.0	-
15:11	0.0	0.0	15:11	0.0	0.0	-
15:12	0.0	0.0	15:12	0.0	0.0	-
15:13	0.0	0.0	15:13	0.0	0.0	-
15:14	0.0	0.0	15:14	0.0	0.0	-
15:15	0.0	0.0	15:15	0.0	0.0	-
15:16			15:16	0.0	0.0	
15:17			15:17	0.0	0.0	
15:18			15:18	0.0	0.0	
15:19			15:19	0.0	0.0	
15:20			15:20	0.0	0.0	
15:21			15:21	0.0	0.0	
15:22			15:22	0.0	0.0	
15:23			15:23	0.0	0.0	

Wednesday, April 12, 2017						
Number of Instances Where Downwind Particulates Exceeds Upwind Particulate + 0.150 mg/m^3 =						0
Number of Comparable Data Points =						198
PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
8:11	0.118		8:11			
8:12	0.080		8:12			
8:13	0.077		8:13	0.128		
8:14	0.076		8:14	0.079		
8:15	0.306		8:15	0.079		
8:16	0.102		8:16	0.079		
8:17	0.097		8:17	0.077		
8:18	0.084		8:18	0.077		
8:19	0.081		8:19	0.077		
8:20	0.078		8:20	0.076		
8:21	0.079		8:21	0.077		
8:22	0.090		8:22	0.077		
8:23	0.084		8:23	0.080		
8:24	0.081		8:24	0.079		
8:25	0.086	0.101	8:25	0.083		
8:26	0.086	0.099	8:26	0.077		
8:27	0.083	0.099	8:27	0.077	0.081	-
8:28	0.082	0.100	8:28	0.078	0.078	-
8:29	0.080	0.100	8:29	0.083	0.078	-
8:30	0.088	0.085	8:30	0.087	0.079	-
8:31	0.094	0.085	8:31	0.089	0.080	-
8:32	0.096	0.085	8:32	0.096	0.081	-
8:33	0.107	0.086	8:33	0.106	0.083	-
8:34	0.110	0.088	8:34	0.103	0.085	-
8:35	0.114	0.091	8:35	0.109	0.087	-
8:36	0.119	0.093	8:36	0.124	0.090	-
8:37	0.115	0.095	8:37	0.121	0.093	-
8:38	0.100	0.096	8:38	0.116	0.095	-
8:39	0.107	0.098	8:39	0.107	0.097	-
8:40	0.105	0.099	8:40	0.106	0.099	-
8:41	0.115	0.101	8:41	0.098	0.100	-
8:42	0.109	0.103	8:42	0.097	0.101	-
8:43	0.117	0.105	8:43	0.098	0.103	-
8:44	0.107	0.107	8:44	0.096	0.104	-
8:45	0.095	0.107	8:45	0.097	0.104	-
8:46	0.097	0.108	8:46	0.101	0.105	-
8:47	0.099	0.108	8:47	0.099	0.105	-
8:48	0.099	0.107	8:48	0.101	0.105	-
8:49	0.106	0.107	8:49	0.100	0.105	-
8:50	0.105	0.106	8:50	0.100	0.104	-
8:51	0.109	0.106	8:51	0.101	0.103	-
8:52	0.132	0.107	8:52	0.101	0.101	-
8:53	0.110	0.107	8:53	0.101	0.100	-
8:54	0.095	0.107	8:54	0.100	0.100	-
8:55	0.092	0.106	8:55	0.094	0.099	-
8:56	0.093	0.104	8:56	0.118	0.100	-
8:57	0.093	0.103	8:57	0.098	0.100	-
8:58	0.089	0.101	8:58	0.091	0.100	-
8:59	0.089	0.100	8:59	0.093	0.100	-
9:00	0.106	0.101	9:00	0.097	0.100	-
9:01	0.102	0.101	9:01	0.101	0.100	-
9:02	0.095	0.101	9:02	0.097	0.100	-
9:03	0.098	0.101	9:03	0.096	0.099	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
9:04	0.094	0.100	9:04	0.169	0.104	-
9:05	0.089	0.099	9:05	0.112	0.105	-
9:06	0.088	0.098	9:06	0.129	0.106	-
9:07	0.088	0.095	9:07	0.150	0.110	-
9:08	0.088	0.093	9:08	0.134	0.112	-
9:09	0.092	0.093	9:09	0.120	0.113	-
9:10	0.092	0.093	9:10	0.129	0.116	-
9:11	0.091	0.093	9:11	0.113	0.115	-
9:12	0.091	0.093	9:12	0.105	0.116	-
9:13	0.093	0.093	9:13	0.093	0.116	-
9:14	0.092	0.093	9:14	0.091	0.116	-
9:15	0.091	0.092	9:15	0.102	0.116	-
9:16	0.090	0.091	9:16	0.097	0.116	-
9:17	0.090	0.091	9:17	0.100	0.116	-
9:18	0.091	0.091	9:18	0.100	0.116	-
9:19	0.092	0.091	9:19	0.099	0.112	-
9:20	0.091	0.091	9:20	0.097	0.111	-
9:21	0.093	0.091	9:21	0.099	0.109	-
9:22	0.095	0.091	9:22	0.099	0.105	-
9:23	0.094	0.092	9:23	0.098	0.103	-
9:24	0.094	0.092	9:24	0.096	0.101	-
9:25	0.092	0.092	9:25	0.096	0.099	-
9:26	0.093	0.092	9:26	0.101	0.098	-
9:27	0.093	0.092	9:27	0.097	0.098	-
9:28	0.094	0.092	9:28	0.097	0.098	-
9:29	0.099	0.093	9:29	0.098	0.098	-
9:30	0.098	0.093	9:30	0.099	0.098	-
9:31	0.095	0.094	9:31	0.097	0.098	-
9:32	0.135	0.097	9:32	0.097	0.098	-
9:33	0.124	0.099	9:33	0.096	0.098	-
9:34	0.106	0.100	9:34	0.101	0.098	-
9:35	0.107	0.101	9:35	0.101	0.098	-
9:36	0.101	0.101	9:36	0.100	0.098	-
9:37	0.100	0.102	9:37	0.100	0.098	-
9:38	0.100	0.102	9:38	0.102	0.099	-
9:39	0.099	0.102	9:39	0.104	0.099	-
9:40	0.099	0.103	9:40	0.101	0.099	-
9:41	0.106	0.104	9:41	0.101	0.099	-
9:42	0.098	0.104	9:42	0.101	0.100	-
9:43	0.098	0.104	9:43	0.104	0.100	-
9:44	0.100	0.104	9:44	0.104	0.101	-
9:45	0.110	0.105	9:45	0.102	0.101	-
9:46	1.970	0.230	9:46	0.099	0.101	-
9:47	0.172	0.233	9:47	0.098	0.101	-
9:48	0.807	0.278	9:48	0.100	0.101	-
9:49	1.230	0.353	9:49	0.099	0.101	-
9:50	0.129	0.355	9:50	0.101	0.101	-
9:51	0.108	0.355	9:51	0.100	0.101	-
9:52	0.108	0.356	9:52	0.102	0.101	-
9:53	0.100	0.356	9:53	0.101	0.101	-
9:54	0.093	0.355	9:54	0.104	0.101	-
9:55	0.093	0.355	9:55	0.107	0.102	-
9:56	0.113	0.355	9:56	0.091	0.101	-
9:57	0.135	0.358	9:57	0.122	0.102	-
9:58	0.093	0.357	9:58	0.120	0.103	-
9:59	0.089	0.357	9:59	0.116	0.104	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
10:00	0.094	0.356	10:00	0.098	0.104	-
10:01	0.097	0.231	10:01	0.094	0.104	-
10:02	0.800	0.273	10:02	0.093	0.103	-
10:03	0.204	0.232	10:03	0.093	0.103	-
10:04	0.143	0.160	10:04	0.106	0.103	-
10:05	0.112	0.159	10:05	0.093	0.103	-
10:06	0.094	0.158	10:06	0.092	0.102	-
10:07	0.089	0.157	10:07	0.103	0.102	-
10:08	0.089	0.156	10:08	0.095	0.102	-
10:09	0.089	0.156	10:09	0.099	0.101	-
10:10	0.316	0.170	10:10	0.102	0.101	-
10:11	0.243	0.179	10:11	0.098	0.102	-
10:12	0.102	0.177	10:12	0.107	0.101	-
10:13	0.089	0.177	10:13	0.115	0.100	-
10:14	0.513	0.205	10:14	0.095	0.099	-
10:15	0.168	0.210	10:15	0.104	0.099	-
10:16	0.157	0.214	10:16	0.095	0.099	-
10:17	0.120	0.169	10:17	0.088	0.099	-
10:18	0.082	0.160	10:18	0.093	0.099	-
10:19	0.085	0.157	10:19	0.085	0.098	-
10:20	0.101	0.156	10:20	0.093	0.098	-
10:21	0.112	0.157	10:21	0.092	0.098	-
10:22	0.088	0.157	10:22	0.091	0.097	-
10:23	0.084	0.157	10:23	0.103	0.097	-
10:24	0.084	0.156	10:24	0.095	0.097	-
10:25	0.084	0.141	10:25	0.098	0.097	-
10:26	0.084	0.130	10:26	0.153	0.100	-
10:27	0.083	0.129	10:27	0.152	0.103	-
10:28	0.084	0.129	10:28	0.236	0.112	-
10:29	0.086	0.100	10:29	0.115	0.113	-
10:30	0.084	0.095	10:30	0.128	0.114	-
10:31	0.111	0.091	10:31	0.111	0.116	-
10:32	0.105	0.090	10:32	0.118	0.118	-
10:33	0.099	0.092	10:33	0.115	0.119	-
10:34	0.097	0.092	10:34	0.110	0.121	-
10:35	0.107	0.093	10:35	0.146	0.124	-
10:36	0.109	0.093	10:36	0.129	0.127	-
10:37	0.105	0.094	10:37	0.149	0.131	-
10:38	0.105	0.095	10:38	0.133	0.133	-
10:39	0.106	0.097	10:39	0.121	0.134	-
10:40	0.107	0.098	10:40	0.119	0.136	-
10:41	0.112	0.100	10:41	0.117	0.133	-
10:42	0.115	0.102	10:42	0.123	0.131	-
10:43	0.124	0.105	10:43	0.127	0.124	-
10:44	0.116	0.107	10:44	0.136	0.125	-
10:45	0.114	0.109	10:45	0.150	0.127	-
10:46	0.120	0.109	10:46	0.141	0.129	-
10:47	0.121	0.110	10:47	0.130	0.130	-
10:48	0.119	0.112	10:48	0.135	0.131	-
10:49	0.115	0.113	10:49	0.133	0.133	-
10:50	0.115	0.114	10:50	0.137	0.132	-
10:51	0.117	0.114	10:51	0.138	0.133	-
10:52	0.117	0.115	10:52	0.130	0.131	-
10:53	0.118	0.116	10:53	0.127	0.131	-
10:54	0.119	0.117	10:54	0.132	0.132	-
10:55	0.131	0.118	10:55	0.125	0.132	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
10:56	0.127	0.119	10:56	0.128	0.133	-
10:57	0.122	0.120	10:57	0.229	0.140	-
10:58	0.109	0.119	10:58	0.126	0.140	-
10:59	0.104	0.118	10:59	0.136	0.140	-
11:00	0.122	0.118	11:00	0.109	0.137	-
11:01	0.109	0.118	11:01	0.112	0.135	-
11:02	0.106	0.117	11:02	0.118	0.134	-
11:03	0.096	0.115	11:03	0.099	0.132	-
11:04	0.104	0.114	11:04	0.105	0.130	-
11:05	0.102	0.114	11:05	0.153	0.131	-
11:06	0.101	0.112	11:06	0.116	0.130	-
11:07	0.089	0.111	11:07	0.089	0.127	-
11:08	0.083	0.108	11:08	0.078	0.124	-
11:09	0.079	0.106	11:09	0.067	0.119	-
11:10	0.056	0.101	11:10	0.057	0.115	-
11:11	0.049	0.095	11:11	0.046	0.109	-
11:12	0.042	0.090	11:12	0.037	0.097	-
11:13	0.036	0.085	11:13	0.035	0.090	-
11:14	0.040	0.081	11:14	0.027	0.083	-
11:15	0.026	0.075	11:15	0.029	0.078	-
11:16	0.031	0.069	11:16	0.026	0.072	-
11:17	0.039	0.065	11:17	0.038	0.067	-
11:18	0.025	0.060	11:18	0.113	0.068	-
11:19	0.026	0.055	11:19	0.081	0.066	-
11:20	0.019	0.049	11:20	0.094	0.062	-
11:21	0.016	0.044	11:21	0.030	0.056	-
11:22	0.014	0.039	11:22	0.049	0.054	-
11:23	0.013	0.034	11:23	0.038	0.051	-
11:24	0.012	0.030	11:24	0.055	0.050	-
11:25	0.017	0.027	11:25	0.050	0.050	-
11:26	0.098	0.030	11:26	0.139	0.056	-
11:27	0.229	0.043	11:27	0.092	0.060	-
11:28	0.077	0.045	11:28	0.063	0.062	-
11:29	0.021	0.044	11:29	0.054	0.063	-
11:30	0.022	0.044	11:30	0.066	0.066	-
11:31	0.018	0.043	11:31	0.053	0.068	-
11:32	0.015	0.041	11:32	0.046	0.068	-
11:33	0.017	0.041	11:33	0.052	0.064	-
11:34	0.016	0.040	11:34	0.038	0.061	-
11:35	0.014	0.040	11:35	0.026	0.057	-
11:36	0.013	0.040	11:36	0.032	0.057	-
11:37	0.152	0.049	11:37	0.030	0.056	-
11:38	0.054	0.052	11:38	0.032	0.055	-
11:39	0.017	0.052	11:39	0.059	0.055	-
11:40	0.016	0.052	11:40	0.052	0.056	-
11:41	0.015	0.046	11:41	0.035	0.049	-
11:42	0.022	0.033	11:42	0.049	0.046	-
11:43	0.017	0.029	11:43	0.054	0.045	-
11:44	0.026	0.029	11:44	0.045	0.045	-
11:45	0.022	0.029	11:45			
11:46	0.000	0.028	11:46			

Wednesday, April 12, 2017						
Number of Instances Where Downwind VOCs Exceeds Upwind VOCs + 5 ppm =						0
Number of Comparable Data Points =						254
PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
7:18	0.2		7:18			
7:19	0.0		7:19			
7:20	0.0		7:20	0.3		
7:21	0.0		7:21	0.4		
7:22	0.0		7:22	0.2		
7:23	0.0		7:23	0.2		
7:24	0.0		7:24	0.1		
7:25	0.0		7:25	0.1		
7:26	0.0		7:26	0.1		
7:27	0.0		7:27	0.1		
7:28	0.0		7:28	0.1		
7:29	0.0		7:29	0.1		
7:30	0.0		7:30	0.1		
7:31	0.0		7:31	0.1		
7:32	0.0	0.0	7:32	0.1		
7:33	0.0	0.0	7:33	0.1		
7:34	0.0	0.0	7:34	0.1	0.1	-
7:35	0.0	0.0	7:35	0.1	0.1	-
7:36	0.0	0.0	7:36	0.1	0.1	-
7:37	0.0	0.0	7:37	0.1	0.1	-
7:38	0.0	0.0	7:38	0.1	0.1	-
7:39	0.0	0.0	7:39	0.1	0.1	-
7:40	0.0	0.0	7:40	0.1	0.1	-
7:41	0.0	0.0	7:41	0.1	0.1	-
7:42	0.0	0.0	7:42	0.1	0.1	-
7:43	0.0	0.0	7:43	0.1	0.1	-
7:44	0.1	0.0	7:44	0.1	0.1	-
7:45	0.1	0.0	7:45	0.1	0.1	-
7:46	0.1	0.0	7:46	0.1	0.1	-
7:47	0.2	0.0	7:47	0.1	0.1	-
7:48	0.2	0.0	7:48	0.1	0.1	-
7:49	0.2	0.1	7:49	0.1	0.1	-
7:50	0.2	0.1	7:50	0.1	0.1	-
7:51	0.2	0.1	7:51	0.1	0.1	-
7:52	0.3	0.1	7:52	0.1	0.1	-
7:53	0.3	0.1	7:53	0.1	0.1	-
7:54	0.4	0.2	7:54	0.1	0.1	-
7:55	0.5	0.2	7:55	0.2	0.1	-
7:56	0.5	0.2	7:56	0.2	0.1	-
7:57	0.6	0.3	7:57	0.2	0.1	-
7:58	0.6	0.3	7:58	0.2	0.1	-
7:59	0.7	0.3	7:59	0.3	0.1	-
8:00	0.7	0.4	8:00	0.3	0.2	-
8:01	0.8	0.4	8:01	0.3	0.2	-
8:02	0.8	0.5	8:02	0.3	0.2	-
8:03	0.9	0.5	8:03	0.3	0.2	-
8:04	0.9	0.6	8:04	0.3	0.2	-
8:05	0.9	0.6	8:05	0.3	0.2	-
8:06	0.9	0.7	8:06	0.3	0.2	-
8:07	0.8	0.7	8:07	0.3	0.2	-
8:08	0.9	0.7	8:08	0.3	0.3	-
8:09	1.0	0.8	8:09	0.3	0.3	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
8:10	1.0	0.8	8:10	0.3	0.3	-
8:11	1.0	0.8	8:11	0.3	0.3	-
8:12	1.1	0.9	8:12	0.3	0.3	-
8:13	1.2	0.9	8:13	0.3	0.3	-
8:14	1.0	0.9	8:14	0.3	0.3	-
8:15	0.9	0.9	8:15	0.2	0.3	-
8:16	0.9	0.9	8:16	0.2	0.3	-
8:17	0.9	1.0	8:17	0.2	0.3	-
8:18	0.9	1.0	8:18	0.3	0.3	-
8:19	1.0	1.0	8:19	0.2	0.3	-
8:20	1.1	1.0	8:20	0.2	0.3	-
8:21	1.1	1.0	8:21	0.3	0.3	-
8:22	1.0	1.0	8:22	0.3	0.3	-
8:23	1.0	1.0	8:23	0.2	0.3	-
8:24	1.1	1.0	8:24	0.2	0.3	-
8:25	1.1	1.0	8:25	0.3	0.3	-
8:26	1.0	1.0	8:26	0.2	0.2	-
8:27	1.0	1.0	8:27	0.2	0.2	-
8:28	1.1	1.0	8:28	0.2	0.2	-
8:29	1.1	1.0	8:29	0.2	0.2	-
8:30	1.1	1.0	8:30	0.2	0.2	-
8:31	1.0	1.0	8:31	0.2	0.2	-
8:32	1.1	1.0	8:32	0.2	0.2	-
8:33	1.2	1.1	8:33	0.2	0.2	-
8:34	1.2	1.1	8:34	0.3	0.2	-
8:35	1.2	1.1	8:35	0.3	0.2	-
8:36	1.3	1.1	8:36	0.3	0.2	-
8:37	1.6	1.1	8:37	0.3	0.2	-
8:38	1.8	1.2	8:38	0.3	0.2	-
8:39	1.7	1.2	8:39	0.3	0.2	-
8:40	1.4	1.3	8:40	0.3	0.2	-
8:41	1.4	1.3	8:41	0.3	0.3	-
8:42	1.4	1.3	8:42	0.3	0.3	-
8:43	1.4	1.3	8:43	0.3	0.3	-
8:44	1.4	1.3	8:44	0.3	0.3	-
8:45	1.5	1.4	8:45	0.3	0.3	-
8:46	1.5	1.4	8:46	0.3	0.3	-
8:47	1.4	1.4	8:47	0.3	0.3	-
8:48	1.4	1.4	8:48	0.3	0.3	-
8:49	1.4	1.5	8:49	0.3	0.3	-
8:50	1.4	1.5	8:50	0.3	0.3	-
8:51	1.4	1.5	8:51	0.3	0.3	-
8:52	1.5	1.5	8:52	0.3	0.3	-
8:53	1.5	1.4	8:53	0.3	0.3	-
8:54	1.5	1.4	8:54	0.3	0.3	-
8:55	1.7	1.5	8:55	0.3	0.3	-
8:56	1.5	1.5	8:56	0.3	0.3	-
8:57	1.6	1.5	8:57	0.3	0.3	-
8:58	1.6	1.5	8:58	0.3	0.3	-
8:59	1.5	1.5	8:59	0.3	0.3	-
9:00	1.5	1.5	9:00	0.3	0.3	-
9:01	1.6	1.5	9:01	0.3	0.3	-
9:02	1.6	1.5	9:02	0.3	0.3	-
9:03	2.5	1.6	9:03	0.3	0.3	-
9:04	1.7	1.6	9:04	0.3	0.3	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
9:05	1.6	1.6	9:05	0.3	0.3	-
9:06	1.6	1.6	9:06	0.3	0.3	-
9:07	1.6	1.6	9:07	0.3	0.3	-
9:08	1.6	1.6	9:08	0.3	0.3	-
9:09	1.7	1.7	9:09	0.3	0.3	-
9:10	1.6	1.7	9:10	0.3	0.3	-
9:11	1.6	1.7	9:11	0.4	0.3	-
9:12	1.6	1.7	9:12	0.3	0.3	-
9:13	1.6	1.7	9:13	0.3	0.3	-
9:14	1.6	1.7	9:14	0.3	0.3	-
9:15	1.6	1.7	9:15	0.3	0.3	-
9:16	1.7	1.7	9:16	0.3	0.3	-
9:17	1.7	1.7	9:17	0.3	0.3	-
9:18	1.7	1.6	9:18	0.3	0.3	-
9:19	1.6	1.6	9:19	0.3	0.3	-
9:20	1.6	1.6	9:20	0.3	0.3	-
9:21	1.6	1.6	9:21	0.3	0.3	-
9:22	1.6	1.6	9:22	0.3	0.3	-
9:23	1.6	1.6	9:23	0.3	0.3	-
9:24	1.7	1.6	9:24	0.3	0.3	-
9:25	1.6	1.6	9:25	0.3	0.3	-
9:26	1.6	1.6	9:26	0.3	0.3	-
9:27	1.6	1.6	9:27	0.3	0.3	-
9:28	1.7	1.6	9:28	0.3	0.3	-
9:29	1.6	1.6	9:29	0.3	0.3	-
9:30	1.6	1.6	9:30	0.3	0.3	-
9:31	1.6	1.6	9:31	0.3	0.3	-
9:32	1.6	1.6	9:32	0.3	0.3	-
9:33	1.6	1.6	9:33	0.3	0.3	-
9:34	1.7	1.6	9:34	0.3	0.3	-
9:35	1.7	1.6	9:35	0.3	0.3	-
9:36	1.6	1.6	9:36	0.3	0.3	-
9:37	1.6	1.6	9:37	0.3	0.3	-
9:38	1.7	1.6	9:38	0.3	0.3	-
9:39	1.7	1.6	9:39	0.3	0.3	-
9:40	1.7	1.6	9:40	0.3	0.3	-
9:41	1.7	1.6	9:41	0.3	0.3	-
9:42	1.7	1.7	9:42	0.3	0.3	-
9:43	1.6	1.6	9:43	0.3	0.3	-
9:44	1.6	1.6	9:44	0.3	0.3	-
9:45	1.6	1.6	9:45	0.3	0.3	-
9:46	1.6	1.6	9:46	0.3	0.3	-
9:47	1.6	1.6	9:47	0.3	0.3	-
9:48	1.6	1.6	9:48	0.3	0.3	-
9:49	1.6	1.6	9:49	0.3	0.3	-
9:50	1.6	1.6	9:50	0.2	0.3	-
9:51	1.6	1.6	9:51	0.2	0.3	-
9:52	1.6	1.6	9:52	0.2	0.3	-
9:53	1.6	1.6	9:53	0.2	0.3	-
9:54	1.7	1.6	9:54	0.2	0.3	-
9:55	1.6	1.6	9:55	0.2	0.3	-
9:56	1.5	1.6	9:56	0.2	0.3	-
9:57	1.5	1.6	9:57	0.2	0.2	-
9:58	1.6	1.6	9:58	0.2	0.2	-
9:59	1.5	1.6	9:59	0.2	0.2	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
10:00	1.4	1.6	10:00	0.2	0.2	-
10:01	1.4	1.6	10:01	0.2	0.2	-
10:02	1.4	1.5	10:02	0.2	0.2	-
10:03	1.4	1.5	10:03	0.2	0.2	-
10:04	1.5	1.5	10:04	0.2	0.2	-
10:05	1.5	1.5	10:05	0.2	0.2	-
10:06	1.5	1.5	10:06	0.2	0.2	-
10:07	1.4	1.5	10:07	0.2	0.2	-
10:08	1.4	1.5	10:08	0.2	0.2	-
10:09	1.4	1.5	10:09	0.2	0.2	-
10:10	1.4	1.5	10:10	0.2	0.2	-
10:11	1.4	1.4	10:11	0.2	0.2	-
10:12	1.4	1.4	10:12	0.2	0.2	-
10:13	1.4	1.4	10:13	0.2	0.2	-
10:14	1.4	1.4	10:14	0.2	0.2	-
10:15	1.4	1.4	10:15	0.2	0.2	-
10:16	1.4	1.4	10:16	0.2	0.2	-
10:17	1.3	1.4	10:17	0.2	0.2	-
10:18	1.3	1.4	10:18	0.2	0.2	-
10:19	1.3	1.4	10:19	0.2	0.2	-
10:20	1.3	1.4	10:20	0.2	0.2	-
10:21	1.3	1.4	10:21	0.2	0.2	-
10:22	1.3	1.4	10:22	0.2	0.2	-
10:23	1.4	1.4	10:23	0.2	0.2	-
10:24	1.4	1.4	10:24	0.2	0.2	-
10:25	1.3	1.4	10:25	0.2	0.2	-
10:26	1.3	1.3	10:26	0.2	0.2	-
10:27	1.3	1.3	10:27	0.2	0.2	-
10:28	1.3	1.3	10:28	0.2	0.2	-
10:29	1.4	1.3	10:29	0.2	0.2	-
10:30	1.3	1.3	10:30	0.2	0.2	-
10:31	1.3	1.3	10:31	0.2	0.2	-
10:32	1.4	1.3	10:32	0.2	0.2	-
10:33	1.3	1.3	10:33	0.2	0.2	-
10:34	1.3	1.3	10:34	0.2	0.2	-
10:35	1.3	1.3	10:35	0.2	0.2	-
10:36	1.3	1.3	10:36	0.2	0.2	-
10:37	1.3	1.3	10:37	0.2	0.2	-
10:38	1.4	1.3	10:38	0.2	0.2	-
10:39	1.4	1.3	10:39	0.2	0.2	-
10:40	1.3	1.3	10:40	0.2	0.2	-
10:41	1.3	1.3	10:41	0.2	0.2	-
10:42	1.3	1.3	10:42	0.2	0.2	-
10:43	1.3	1.3	10:43	0.2	0.2	-
10:44	1.3	1.3	10:44	0.2	0.2	-
10:45	1.3	1.3	10:45	0.2	0.2	-
10:46	1.3	1.3	10:46	0.2	0.2	-
10:47	1.3	1.3	10:47	0.2	0.2	-
10:48	1.4	1.3	10:48	0.2	0.2	-
10:49	1.4	1.3	10:49	0.2	0.2	-
10:50	1.4	1.3	10:50	0.2	0.2	-
10:51	1.4	1.3	10:51	0.2	0.2	-
10:52	1.4	1.3	10:52	0.2	0.2	-
10:53	1.4	1.3	10:53	0.2	0.2	-
10:54	1.4	1.3	10:54	0.2	0.2	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
10:55	1.4	1.4	10:55	0.2	0.2	-
10:56	1.4	1.4	10:56	0.2	0.2	-
10:57	1.4	1.4	10:57	0.2	0.2	-
10:58	1.4	1.4	10:58	0.3	0.2	-
10:59	1.4	1.4	10:59	0.3	0.2	-
11:00	1.4	1.4	11:00	0.2	0.2	-
11:01	1.4	1.4	11:01	0.2	0.2	-
11:02	1.3	1.4	11:02	0.2	0.2	-
11:03	1.3	1.4	11:03	0.2	0.2	-
11:04	1.3	1.4	11:04	0.2	0.2	-
11:05	1.3	1.4	11:05	0.2	0.2	-
11:06	1.3	1.4	11:06	0.2	0.2	-
11:07	1.2	1.4	11:07	0.2	0.2	-
11:08	1.2	1.3	11:08	0.2	0.2	-
11:09	1.2	1.3	11:09	0.2	0.2	-
11:10	1.2	1.3	11:10	0.2	0.2	-
11:11	1.1	1.3	11:11	0.2	0.2	-
11:12	1.1	1.3	11:12	0.2	0.2	-
11:13	1.1	1.3	11:13	0.1	0.2	-
11:14	1.0	1.2	11:14	0.1	0.2	-
11:15	0.9	1.2	11:15	0.1	0.2	-
11:16	0.9	1.2	11:16	0.1	0.2	-
11:17	0.9	1.1	11:17	0.1	0.2	-
11:18	0.8	1.1	11:18	0.1	0.2	-
11:19	0.8	1.1	11:19	0.1	0.2	-
11:20	0.8	1.0	11:20	0.1	0.1	-
11:21	0.8	1.0	11:21	0.1	0.1	-
11:22	0.8	1.0	11:22	0.1	0.1	-
11:23	0.7	0.9	11:23	0.0	0.1	-
11:24	0.7	0.9	11:24	0.0	0.1	-
11:25	0.7	0.9	11:25	0.0	0.1	-
11:26	0.7	0.8	11:26	0.0	0.1	-
11:27	0.7	0.8	11:27	0.0	0.1	-
11:28	0.7	0.8	11:28	0.0	0.1	-
11:29	0.6	0.8	11:29	0.0	0.1	-
11:30	0.5	0.7	11:30	0.0	0.0	-
11:31	0.5	0.7	11:31	0.0	0.0	-
11:32	0.5	0.7	11:32	0.0	0.0	-
11:33	0.5	0.7	11:33	0.0	0.0	-
11:34	0.5	0.6	11:34	0.0	0.0	-
11:35	0.5	0.6	11:35	0.0	0.0	-
11:36	0.5	0.6	11:36	0.0	0.0	-
11:37	0.4	0.6	11:37	0.0	0.0	-
11:38	0.5	0.6	11:38	0.0	0.0	-
11:39	0.5	0.6	11:39	0.0	0.0	-
11:40	0.7	0.6	11:40	0.0	0.0	-
11:41	0.5	0.5	11:41	0.0	0.0	-
11:42	0.4	0.5	11:42	0.0	0.0	-
11:43	0.4	0.5	11:43	0.0	0.0	-
11:44	0.4	0.5	11:44	0.0	0.0	-
11:45	0.4	0.5	11:45	0.0	0.0	-
11:46	0.5	0.5	11:46	0.0	0.0	-
11:47	0.4	0.5	11:47	0.0	0.0	-
11:48	0.4	0.5	11:48			
11:49	0.4	0.5	11:49			

Friday, April 14, 2017						
Number of Instances Where Downwind Particulates Exceeds Upwind Particulate + 0.150 mg/m^3 =						0
Number of Comparable Data Points =						188
PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
6:50			6:50	0.110		
6:51			6:51	0.016		
6:52			6:52	0.011		
6:53	0.019		6:53	0.012		
6:54	0.016		6:54	0.010		
6:55	0.011		6:55	0.006		
6:56	0.013		6:56	0.005		
6:57	0.021		6:57	0.005		
6:58	0.014		6:58	0.006		
6:59	0.013		6:59	0.006		
7:00	0.014		7:00	0.006		
7:01	2.350		7:01	0.006		
7:02	3.540		7:02	0.008		
7:03	1.300		7:03	0.006		
7:04	0.838		7:04	0.005	0.015	-
7:05	0.279		7:05	0.005	0.008	-
7:06	0.123		7:06	0.005	0.007	-
7:07	0.209	0.584	7:07	0.006	0.006	-
7:08	0.290	0.602	7:08	0.005	0.006	-
7:09	0.062	0.605	7:09	0.005	0.006	-
7:10	0.070	0.609	7:10	0.007	0.006	-
7:11	0.128	0.617	7:11	0.008	0.006	-
7:12	0.076	0.620	7:12	0.005	0.006	-
7:13	0.142	0.629	7:13	0.005	0.006	-
7:14	0.013	0.629	7:14	0.005	0.006	-
7:15	0.013	0.629	7:15	0.005	0.006	-
7:16	0.012	0.473	7:16	0.006	0.006	-
7:17	0.013	0.238	7:17	0.006	0.006	-
7:18	0.013	0.152	7:18	0.005	0.006	-
7:19	0.012	0.097	7:19	0.005	0.006	-
7:20	0.012	0.079	7:20	0.005	0.006	-
7:21	0.013	0.072	7:21	0.005	0.006	-
7:22	0.013	0.059	7:22	0.005	0.005	-
7:23	0.012	0.040	7:23	0.005	0.005	-
7:24	0.014	0.037	7:24	0.007	0.006	-
7:25	0.014	0.033	7:25	0.005	0.005	-
7:26	0.014	0.026	7:26	0.006	0.005	-
7:27	0.015	0.022	7:27	0.006	0.005	-
7:28	0.014	0.013	7:28	0.006	0.005	-
7:29	0.015	0.013	7:29	0.006	0.006	-
7:30	0.014	0.013	7:30	0.006	0.006	-
7:31	0.014	0.013	7:31	0.006	0.006	-
7:32	0.014	0.014	7:32	0.006	0.006	-
7:33	0.014	0.014	7:33	0.006	0.006	-
7:34	0.015	0.014	7:34	0.006	0.006	-
7:35	0.015	0.014	7:35	0.006	0.006	-
7:36	0.014	0.014	7:36	0.007	0.006	-
7:37	0.014	0.014	7:37	0.006	0.006	-
7:38	0.014	0.014	7:38	0.006	0.006	-
7:39	0.014	0.014	7:39	0.006	0.006	-
7:40	0.014	0.014	7:40	0.006	0.006	-
7:41	0.015	0.014	7:41	0.006	0.006	-
7:42	0.016	0.014	7:42	0.008	0.006	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
7:43	0.016	0.015	7:43	0.008	0.006	-
7:44	0.016	0.015	7:44	0.006	0.006	-
7:45	0.016	0.015	7:45	0.006	0.006	-
7:46	0.015	0.015	7:46	0.007	0.006	-
7:47	0.016	0.015	7:47	0.008	0.007	-
7:48	0.016	0.015	7:48	0.007	0.007	-
7:49	0.015	0.015	7:49	0.006	0.007	-
7:50	0.015	0.015	7:50	0.006	0.007	-
7:51	0.017	0.015	7:51	0.006	0.007	-
7:52	0.017	0.015	7:52	0.008	0.007	-
7:53	0.017	0.016	7:53	0.011	0.007	-
7:54	0.018	0.016	7:54	0.010	0.007	-
7:55	0.017	0.016	7:55	0.008	0.007	-
7:56	0.017	0.016	7:56	0.008	0.008	-
7:57	0.017	0.016	7:57	0.007	0.007	-
7:58	0.017	0.016	7:58	0.008	0.007	-
7:59	0.017	0.016	7:59	0.009	0.008	-
8:00	0.018	0.017	8:00	0.008	0.008	-
8:01	0.018	0.017	8:01	0.010	0.008	-
8:02	0.017	0.017	8:02	0.010	0.008	-
8:03	0.017	0.017	8:03	0.009	0.008	-
8:04	0.017	0.017	8:04	0.010	0.009	-
8:05	0.017	0.017	8:05	0.010	0.009	-
8:06	0.017	0.017	8:06	0.010	0.009	-
8:07	0.016	0.017	8:07	0.012	0.009	-
8:08	0.017	0.017	8:08	0.011	0.009	-
8:09	0.017	0.017	8:09	0.010	0.009	-
8:10	0.017	0.017	8:10	0.010	0.009	-
8:11	0.017	0.017	8:11	0.010	0.010	-
8:12	0.016	0.017	8:12	0.012	0.010	-
8:13	0.017	0.017	8:13	0.015	0.010	-
8:14	0.016	0.017	8:14	0.013	0.011	-
8:15	0.017	0.017	8:15	0.012	0.011	-
8:16	0.017	0.017	8:16	0.010	0.011	-
8:17	0.016	0.017	8:17	0.010	0.011	-
8:18	0.016	0.017	8:18	0.010	0.011	-
8:19	0.017	0.017	8:19	0.010	0.011	-
8:20	0.017	0.017	8:20	0.010	0.011	-
8:21	0.017	0.017	8:21	0.010	0.011	-
8:22	0.016	0.017	8:22	0.010	0.011	-
8:23	0.016	0.017	8:23	0.014	0.011	-
8:24	0.016	0.017	8:24	0.012	0.011	-
8:25	0.016	0.016	8:25	0.015	0.012	-
8:26	0.016	0.016	8:26	0.012	0.012	-
8:27	0.017	0.016	8:27	0.010	0.012	-
8:28	0.016	0.016	8:28	0.010	0.011	-
8:29	0.016	0.016	8:29	0.010	0.011	-
8:30	0.015	0.016	8:30	0.011	0.011	-
8:31	0.017	0.016	8:31	0.010	0.011	-
8:32	0.022	0.017	8:32	0.010	0.011	-
8:33	0.020	0.017	8:33	0.010	0.011	-
8:34	0.017	0.017	8:34	0.010	0.011	-
8:35	0.016	0.017	8:35	0.010	0.011	-
8:36	0.017	0.017	8:36	0.012	0.011	-
8:37	0.018	0.017	8:37	0.011	0.011	-
8:38	0.018	0.017	8:38	0.014	0.011	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
8:39	0.018	0.017	8:39	0.022	0.012	-
8:40	0.018	0.017	8:40	0.017	0.012	-
8:41	0.019	0.018	8:41	0.016	0.012	-
8:42	0.018	0.018	8:42	0.014	0.012	-
8:43	0.018	0.018	8:43	0.015	0.013	-
8:44	0.018	0.018	8:44	0.012	0.013	-
8:45	0.017	0.018	8:45	0.012	0.013	-
8:46	0.018	0.018	8:46	0.012	0.013	-
8:47	0.018	0.018	8:47	0.013	0.013	-
8:48	0.018	0.018	8:48	0.013	0.014	-
8:49	0.018	0.018	8:49	0.013	0.014	-
8:50	0.017	0.018	8:50	0.013	0.014	-
8:51	0.017	0.018	8:51	0.012	0.014	-
8:52	0.018	0.018	8:52	0.012	0.014	-
8:53	0.018	0.018	8:53	0.011	0.014	-
8:54	0.018	0.018	8:54	0.011	0.013	-
8:55	0.018	0.018	8:55	0.009	0.013	-
8:56	0.019	0.018	8:56	0.009	0.012	-
8:57	0.018	0.018	8:57	0.012	0.012	-
8:58	0.019	0.018	8:58	0.011	0.012	-
8:59	0.019	0.018	8:59	0.010	0.012	-
9:00	0.019	0.018	9:00	0.010	0.011	-
9:01	0.019	0.018	9:01	0.011	0.011	-
9:02	0.019	0.018	9:02	0.010	0.011	-
9:03	0.019	0.018	9:03	0.009	0.011	-
9:04	0.019	0.018	9:04	0.011	0.011	-
9:05	0.019	0.019	9:05	0.017	0.011	-
9:06	0.021	0.019	9:06	0.019	0.011	-
9:07	0.021	0.019	9:07	0.012	0.011	-
9:08	0.020	0.019	9:08	0.012	0.012	-
9:09	0.021	0.019	9:09	0.013	0.012	-
9:10	0.021	0.020	9:10	0.012	0.012	-
9:11	0.020	0.020	9:11	0.011	0.012	-
9:12	0.020	0.020	9:12	0.011	0.012	-
9:13	0.019	0.020	9:13	0.012	0.012	-
9:14	0.019	0.020	9:14	0.012	0.012	-
9:15	0.020	0.020	9:15	0.013	0.012	-
9:16	0.020	0.020	9:16	0.013	0.012	-
9:17	0.021	0.020	9:17	0.011	0.013	-
9:18	0.023	0.020	9:18	0.010	0.013	-
9:19	0.021	0.020	9:19	0.010	0.013	-
9:20	0.020	0.020	9:20	0.010	0.012	-
9:21	0.020	0.020	9:21	0.011	0.012	-
9:22	0.020	0.020	9:22	0.012	0.012	-
9:23	0.020	0.020	9:23	0.018	0.012	-
9:24	0.019	0.020	9:24	0.015	0.012	-
9:25	0.021	0.020	9:25	0.011	0.012	-
9:26	0.023	0.020	9:26	0.009	0.012	-
9:27	0.025	0.021	9:27	0.010	0.012	-
9:28	0.021	0.021	9:28	0.009	0.012	-
9:29	0.019	0.021	9:29	0.008	0.011	-
9:30	0.020	0.021	9:30	0.008	0.011	-
9:31	0.020	0.021	9:31	0.007	0.011	-
9:32	0.021	0.021	9:32	0.007	0.010	-
9:33	0.020	0.021	9:33	0.008	0.010	-
9:34	0.020	0.021	9:34	0.008	0.010	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
9:35	0.020	0.021	9:35	0.008	0.010	-
9:36	0.020	0.021	9:36	0.009	0.010	-
9:37	0.020	0.021	9:37	0.009	0.010	-
9:38	0.020	0.021	9:38	0.008	0.009	-
9:39	0.020	0.021	9:39	0.009	0.009	-
9:40	0.020	0.021	9:40	0.010	0.008	-
9:41	0.021	0.020	9:41	0.010	0.009	-
9:42	0.021	0.020	9:42	0.010	0.009	-
9:43	0.020	0.020	9:43	0.010	0.009	-
9:44	0.020	0.020	9:44	0.010	0.009	-
9:45	0.020	0.020	9:45	0.012	0.009	-
9:46	0.029	0.021	9:46	0.018	0.010	-
9:47	0.024	0.021	9:47	0.020	0.011	-
9:48	0.021	0.021	9:48	0.032	0.012	-
9:49	0.021	0.021	9:49	0.018	0.013	-
9:50	0.021	0.021	9:50	0.016	0.013	-
9:51	0.023	0.021	9:51	0.024	0.014	-
9:52	0.022	0.022	9:52	0.016	0.015	-
9:53	0.022	0.022	9:53	0.015	0.015	-
9:54	0.022	0.022	9:54	0.015	0.016	-
9:55	0.031	0.023	9:55	0.014	0.016	-
9:56	0.028	0.023	9:56	0.017	0.016	-
9:57	0.026	0.023	9:57	0.013	0.017	-
9:58	0.022	0.023	9:58	0.013	0.017	-
9:59	0.022	0.024	9:59	0.014	0.017	-
10:00	0.022	0.024	10:00	0.012	0.017	-
10:01	0.023	0.023	10:01	0.010	0.017	-
10:02	0.023	0.023	10:02	0.010	0.016	-
10:03	0.022	0.023	10:03	0.013	0.015	-
10:04	0.022	0.023	10:04	0.010	0.014	-
10:05	0.022	0.023	10:05	0.010	0.014	-
10:06	0.023	0.023	10:06	0.014	0.013	-
10:07	0.022	0.023	10:07	0.017	0.013	-
10:08	0.022	0.023	10:08	0.015	0.013	-
10:09	0.023	0.024	10:09	0.010	0.013	-
10:10	0.023	0.023	10:10	0.013	0.013	-
10:11	0.022	0.023	10:11	0.011	0.012	-
10:12	0.022	0.022	10:12			
10:13	0.021	0.022	10:13			
10:14	0.022	0.022	10:14			

Friday, April 14, 2017						
Number of Instances Where Downwind VOCs Exceeds Upwind VOCs + 5 ppm =						0
Number of Comparable Data Points =						178
PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
6:54			6:54	0.0		
6:55			6:55	0.0		
6:56			6:56	0.0		
6:57			6:57	0.0		
6:58			6:58	0.0		
6:59			6:59	0.0		
7:00			7:00	0.0		
7:01			7:01	0.0		
7:02			7:02	0.0		
7:03			7:03	0.0		
7:04			7:04	0.0		
7:05	0.0		7:05	0.0		
7:06	0.1		7:06	0.0		
7:07	0.1		7:07	0.0		
7:08	0.2		7:08	0.0	0.0	
7:09	0.2		7:09	0.0	0.0	
7:10	0.2		7:10	0.0	0.0	
7:11	0.3		7:11	0.0	0.0	
7:12	0.3		7:12	0.0	0.0	
7:13	0.3		7:13	0.0	0.0	
7:14	0.4		7:14	0.0	0.0	
7:15	0.4		7:15	0.0	0.0	
7:16	0.4		7:16	0.0	0.0	
7:17	0.4		7:17	0.0	0.0	
7:18	0.4		7:18	0.0	0.0	
7:19	0.4	0.3	7:19	0.0	0.0	-
7:20	0.5	0.3	7:20	0.0	0.0	-
7:21	0.5	0.3	7:21	0.0	0.0	-
7:22	0.5	0.4	7:22	0.0	0.0	-
7:23	0.5	0.4	7:23	0.0	0.0	-
7:24	0.5	0.4	7:24	0.0	0.0	-
7:25	0.5	0.4	7:25	0.0	0.0	-
7:26	0.5	0.4	7:26	0.0	0.0	-
7:27	0.5	0.4	7:27	0.0	0.0	-
7:28	0.6	0.5	7:28	0.0	0.0	-
7:29	0.6	0.5	7:29	0.0	0.0	-
7:30	0.6	0.5	7:30	0.1	0.0	-
7:31	0.6	0.5	7:31	0.1	0.0	-
7:32	0.6	0.5	7:32	0.1	0.0	-
7:33	0.6	0.5	7:33	0.1	0.0	-
7:34	0.6	0.5	7:34	0.1	0.0	-
7:35	0.6	0.6	7:35	0.1	0.0	-
7:36	0.6	0.6	7:36	0.1	0.0	-
7:37	0.6	0.6	7:37	0.1	0.1	-
7:38	0.6	0.6	7:38	0.1	0.1	-
7:39	0.6	0.6	7:39	0.1	0.1	-
7:40	0.7	0.6	7:40	0.1	0.1	-
7:41	0.7	0.6	7:41	0.1	0.1	-
7:42	0.7	0.6	7:42	0.1	0.1	-
7:43	0.7	0.6	7:43	0.1	0.1	-
7:44	0.7	0.6	7:44	0.1	0.1	-
7:45	0.7	0.6	7:45	0.1	0.1	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
7:46	0.7	0.6	7:46	0.1	0.1	-
7:47	0.7	0.7	7:47	0.1	0.1	-
7:48	0.7	0.7	7:48	0.1	0.1	-
7:49	0.7	0.7	7:49	0.1	0.1	-
7:50	0.7	0.7	7:50	0.1	0.1	-
7:51	0.7	0.7	7:51	0.1	0.1	-
7:52	0.7	0.7	7:52	0.1	0.1	-
7:53	0.7	0.7	7:53	0.1	0.1	-
7:54	0.7	0.7	7:54	0.1	0.1	-
7:55	0.7	0.7	7:55	0.1	0.1	-
7:56	0.7	0.7	7:56	0.1	0.1	-
7:57	0.7	0.7	7:57	0.1	0.1	-
7:58	0.7	0.7	7:58	0.1	0.1	-
7:59	0.7	0.7	7:59	0.2	0.1	-
8:00	0.7	0.7	8:00	0.1	0.1	-
8:01	0.8	0.7	8:01	0.1	0.1	-
8:02	0.8	0.7	8:02	0.2	0.1	-
8:03	0.8	0.7	8:03	0.2	0.1	-
8:04	0.8	0.7	8:04	0.2	0.1	-
8:05	0.8	0.7	8:05	0.2	0.1	-
8:06	0.8	0.7	8:06	0.2	0.1	-
8:07	0.8	0.7	8:07	0.2	0.1	-
8:08	0.8	0.8	8:08	0.2	0.2	-
8:09	0.8	0.8	8:09	0.2	0.2	-
8:10	0.8	0.8	8:10	0.2	0.2	-
8:11	0.8	0.8	8:11	0.2	0.2	-
8:12	0.8	0.8	8:12	0.2	0.2	-
8:13	0.8	0.8	8:13	0.2	0.2	-
8:14	0.9	0.8	8:14	0.2	0.2	-
8:15	0.9	0.8	8:15	0.2	0.2	-
8:16	0.9	0.8	8:16	0.2	0.2	-
8:17	0.9	0.8	8:17	0.2	0.2	-
8:18	0.9	0.8	8:18	0.2	0.2	-
8:19	0.9	0.8	8:19	0.2	0.2	-
8:20	0.9	0.8	8:20	0.2	0.2	-
8:21	0.9	0.9	8:21	0.2	0.2	-
8:22	0.9	0.9	8:22	0.2	0.2	-
8:23	0.9	0.9	8:23	0.2	0.2	-
8:24	0.9	0.9	8:24	0.2	0.2	-
8:25	0.9	0.9	8:25	0.2	0.2	-
8:26	0.9	0.9	8:26	0.2	0.2	-
8:27	0.9	0.9	8:27	0.2	0.2	-
8:28	0.9	0.9	8:28	0.2	0.2	-
8:29	0.9	0.9	8:29	0.2	0.2	-
8:30	0.9	0.9	8:30	0.2	0.2	-
8:31	0.9	0.9	8:31	0.2	0.2	-
8:32	0.9	0.9	8:32	0.2	0.2	-
8:33	0.9	0.9	8:33	0.2	0.2	-
8:34	0.9	0.9	8:34	0.2	0.2	-
8:35	0.9	0.9	8:35	0.2	0.2	-
8:36	0.9	0.9	8:36	0.2	0.2	-
8:37	0.9	0.9	8:37	0.2	0.2	-
8:38	0.9	0.9	8:38	0.3	0.2	-
8:39	0.9	0.9	8:39	0.3	0.2	-
8:40	0.9	0.9	8:40	0.3	0.2	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
8:41	0.9	0.9	8:41	0.3	0.2	-
8:42	0.9	0.9	8:42	0.3	0.2	-
8:43	0.9	0.9	8:43	0.3	0.2	-
8:44	0.9	0.9	8:44	0.3	0.2	-
8:45	0.9	0.9	8:45	0.3	0.3	-
8:46	0.9	0.9	8:46	0.2	0.3	-
8:47	0.9	0.9	8:47	0.2	0.3	-
8:48	0.9	0.9	8:48	0.3	0.3	-
8:49	0.9	0.9	8:49	0.2	0.3	-
8:50	0.9	0.9	8:50	0.2	0.3	-
8:51	0.9	0.9	8:51	0.2	0.3	-
8:52	0.9	0.9	8:52	0.2	0.3	-
8:53	0.9	0.9	8:53	0.2	0.3	-
8:54	0.9	0.9	8:54	0.2	0.2	-
8:55	0.9	0.9	8:55	0.2	0.2	-
8:56	0.9	0.9	8:56	0.2	0.2	-
8:57	0.9	0.9	8:57	0.4	0.2	-
8:58	0.9	0.9	8:58	0.6	0.3	-
8:59	0.9	0.9	8:59	0.5	0.3	-
9:00	0.9	0.9	9:00	0.3	0.3	-
9:01	0.9	0.9	9:01	0.3	0.3	-
9:02	0.9	0.9	9:02	0.3	0.3	-
9:03	0.9	0.9	9:03	0.3	0.3	-
9:04	0.9	0.9	9:04	0.3	0.3	-
9:05	0.9	0.9	9:05	0.3	0.3	-
9:06	0.9	0.9	9:06	0.3	0.3	-
9:07	0.9	0.9	9:07	0.2	0.3	-
9:08	0.9	0.9	9:08	0.2	0.3	-
9:09	0.9	0.9	9:09	0.2	0.3	-
9:10	0.9	0.9	9:10	0.3	0.3	-
9:11	0.9	0.9	9:11	0.2	0.3	-
9:12	0.9	0.9	9:12	0.2	0.3	-
9:13	0.9	0.9	9:13	0.2	0.3	-
9:14	0.9	0.9	9:14	0.2	0.3	-
9:15	0.9	0.9	9:15	0.2	0.2	-
9:16	0.9	0.9	9:16	0.2	0.2	-
9:17	0.9	0.9	9:17	0.2	0.2	-
9:18	0.9	0.9	9:18	0.2	0.2	-
9:19	0.9	0.9	9:19	0.2	0.2	-
9:20	0.9	0.9	9:20	0.2	0.2	-
9:21	0.9	0.9	9:21	0.2	0.2	-
9:22	0.9	0.9	9:22	0.2	0.2	-
9:23	0.9	0.9	9:23	0.2	0.2	-
9:24	0.9	0.9	9:24	0.2	0.2	-
9:25	0.9	0.9	9:25	0.2	0.2	-
9:26	0.9	0.9	9:26	0.2	0.2	-
9:27	0.9	0.9	9:27	0.2	0.2	-
9:28	0.9	0.9	9:28	0.2	0.2	-
9:29	0.9	0.9	9:29	0.2	0.2	-
9:30	0.9	0.9	9:30	0.2	0.2	-
9:31	0.9	0.9	9:31	0.2	0.2	-
9:32	0.9	0.9	9:32	0.2	0.2	-
9:33	0.9	0.9	9:33	0.2	0.2	-
9:34	0.9	0.9	9:34	0.2	0.2	-
9:35	0.9	0.9	9:35	0.2	0.2	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
9:36	0.9	0.9	9:36	0.2	0.2	-
9:37	0.9	0.9	9:37	0.2	0.2	-
9:38	0.9	0.9	9:38	0.2	0.2	-
9:39	0.9	0.9	9:39	0.2	0.2	-
9:40	0.9	0.9	9:40	0.2	0.2	-
9:41	0.9	0.9	9:41	0.2	0.2	-
9:42	0.9	0.9	9:42	0.2	0.2	-
9:43	0.9	0.9	9:43	0.2	0.2	-
9:44	0.9	0.9	9:44	0.2	0.2	-
9:45	0.9	0.9	9:45	0.2	0.2	-
9:46	0.9	0.9	9:46	0.2	0.2	-
9:47	0.9	0.9	9:47	0.2	0.2	-
9:48	0.9	0.9	9:48	0.2	0.2	-
9:49	0.9	0.9	9:49	0.2	0.2	-
9:50	0.9	0.9	9:50	0.2	0.2	-
9:51	0.9	0.9	9:51	0.2	0.2	-
9:52	0.9	0.9	9:52	0.2	0.2	-
9:53	0.9	0.9	9:53	0.2	0.2	-
9:54	0.9	0.9	9:54	0.2	0.2	-
9:55	0.9	0.9	9:55	0.2	0.2	-
9:56	0.9	0.9	9:56	0.2	0.2	-
9:57	0.9	0.9	9:57	0.2	0.2	-
9:58	0.9	0.9	9:58	0.2	0.2	-
9:59	0.9	0.9	9:59	0.2	0.2	-
10:00	0.9	0.9	10:00	0.2	0.2	-
10:01	0.9	0.9	10:01	0.2	0.2	-
10:02	0.9	0.9	10:02	0.2	0.2	-
10:03	0.9	0.9	10:03	0.2	0.2	-
10:04	0.9	0.9	10:04	0.2	0.2	-
10:05	0.9	0.9	10:05	0.2	0.2	-
10:06	0.9	0.9	10:06	0.2	0.2	-
10:07	1.0	0.9	10:07	0.2	0.2	-
10:08	1.0	0.9	10:08	0.2	0.2	-
10:09	1.0	0.9	10:09	0.2	0.2	-
10:10	1.0	0.9	10:10	0.2	0.2	-
10:11	1.0	0.9	10:11	0.2	0.2	-
10:12	1.0	0.9	10:12	0.2	0.2	-
10:13	1.0	0.9	10:13	0.2	0.2	-
10:14	0.7	0.9	10:14	0.2	0.2	-
10:15	0.5	0.9	10:15	0.2	0.2	-
10:16	0.5	0.9	10:16	0.2	0.2	-

Friday, April 28, 2017						
Number of Instances Where Downwind Particulates Exceeds Upwind Particulate + 0.150 mg/m^3 =						0
Number of Comparable Data Points =						308
PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
6:50	0.080		6:50	0.104		
6:51	0.085		6:51	0.124		
6:52	0.084		6:52	0.110		
6:53	0.072		6:53	0.148		
6:54	0.053		6:54	0.108		
6:55	0.040		6:55	0.093		
6:56	0.034		6:56	0.072		
6:57	0.028		6:57	0.059		
6:58	0.024		6:58	0.047		
6:59	0.020		6:59	0.035		
7:00	0.016		7:00	0.027		
7:01	0.014		7:01	0.020		
7:02	0.011		7:02	0.015		
7:03	0.009		7:03	0.011		
7:04	0.007	0.038	7:04	0.009	0.065	-
7:05	0.006	0.034	7:05	0.007	0.059	-
7:06	0.005	0.028	7:06	0.005	0.051	-
7:07	0.004	0.023	7:07	0.004	0.044	-
7:08	0.003	0.018	7:08	0.002	0.034	-
7:09	0.003	0.015	7:09	0.001	0.027	-
7:10	0.002	0.012	7:10	0.000	0.021	-
7:11	0.002	0.010	7:11	0.000	0.016	-
7:12	0.001	0.008	7:12	0.000	0.012	-
7:13	0.001	0.007	7:13	0.000	0.009	-
7:14	0.001	0.006	7:14	0.000	0.007	-
7:15	0.000	0.005	7:15	0.000	0.005	-
7:16	0.000	0.004	7:16	0.000	0.004	-
7:17	0.000	0.003	7:17	0.000	0.003	-
7:18	0.000	0.002	7:18	0.000	0.002	-
7:19	0.000	0.002	7:19	0.000	0.001	-
7:20	0.000	0.001	7:20	0.000	0.001	-
7:21	0.000	0.001	7:21	0.000	0.000	-
7:22	0.000	0.001	7:22	0.000	0.000	-
7:23	0.000	0.001	7:23	0.000	0.000	-
7:24	0.000	0.000	7:24	0.000	0.000	-
7:25	0.000	0.000	7:25	0.000	0.000	-
7:26	0.000	0.000	7:26	0.000	0.000	-
7:27	0.000	0.000	7:27	0.000	0.000	-
7:28	0.000	0.000	7:28	0.000	0.000	-
7:29	0.000	0.000	7:29	0.000	0.000	-
7:30	0.000	0.000	7:30	0.000	0.000	-
7:31	0.000	0.000	7:31	0.000	0.000	-
7:32	0.000	0.000	7:32	0.000	0.000	-
7:33	0.000	0.000	7:33	0.000	0.000	-
7:34	0.000	0.000	7:34	0.000	0.000	-
7:35	0.000	0.000	7:35	0.000	0.000	-
7:36	0.000	0.000	7:36	0.000	0.000	-
7:37	0.000	0.000	7:37	0.000	0.000	-
7:38	0.000	0.000	7:38	0.000	0.000	-
7:39	0.000	0.000	7:39	0.000	0.000	-
7:40	0.000	0.000	7:40	0.000	0.000	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
7:41	0.000	0.000	7:41	0.000	0.000	-
7:42	0.000	0.000	7:42	0.000	0.000	-
7:43	0.000	0.000	7:43	0.000	0.000	-
7:44	0.000	0.000	7:44	0.000	0.000	-
7:45	0.000	0.000	7:45	0.000	0.000	-
7:46	0.000	0.000	7:46	0.000	0.000	-
7:47	0.000	0.000	7:47	0.000	0.000	-
7:48	0.000	0.000	7:48	0.000	0.000	-
7:49	0.000	0.000	7:49	0.000	0.000	-
7:50	0.000	0.000	7:50	0.000	0.000	-
7:51	0.000	0.000	7:51	0.000	0.000	-
7:52	0.000	0.000	7:52	0.000	0.000	-
7:53	0.000	0.000	7:53	0.000	0.000	-
7:54	0.000	0.000	7:54	0.000	0.000	-
7:55	0.000	0.000	7:55	0.000	0.000	-
7:56	0.000	0.000	7:56	0.000	0.000	-
7:57	0.000	0.000	7:57	0.000	0.000	-
7:58	0.000	0.000	7:58	0.000	0.000	-
7:59	0.000	0.000	7:59	0.000	0.000	-
8:00	0.000	0.000	8:00	0.000	0.000	-
8:01	0.000	0.000	8:01	0.000	0.000	-
8:02	0.000	0.000	8:02	0.000	0.000	-
8:03	0.000	0.000	8:03	0.000	0.000	-
8:04	0.000	0.000	8:04	0.000	0.000	-
8:05	0.000	0.000	8:05	0.000	0.000	-
8:06	0.000	0.000	8:06	0.000	0.000	-
8:07	0.000	0.000	8:07	0.000	0.000	-
8:08	0.000	0.000	8:08	0.000	0.000	-
8:09	0.000	0.000	8:09	0.000	0.000	-
8:10	0.000	0.000	8:10	0.000	0.000	-
8:11	0.000	0.000	8:11	0.000	0.000	-
8:12	0.000	0.000	8:12	0.000	0.000	-
8:13	0.000	0.000	8:13	0.000	0.000	-
8:14	0.000	0.000	8:14	0.000	0.000	-
8:15	0.000	0.000	8:15	0.000	0.000	-
8:16	0.000	0.000	8:16	0.000	0.000	-
8:17	0.000	0.000	8:17	0.000	0.000	-
8:18	0.000	0.000	8:18	0.000	0.000	-
8:19	0.000	0.000	8:19	0.000	0.000	-
8:20	0.000	0.000	8:20	0.000	0.000	-
8:21	0.000	0.000	8:21	0.000	0.000	-
8:22	0.000	0.000	8:22	0.000	0.000	-
8:23	0.000	0.000	8:23	0.000	0.000	-
8:24	0.000	0.000	8:24	0.000	0.000	-
8:25	0.000	0.000	8:25	0.000	0.000	-
8:26	0.000	0.000	8:26	0.000	0.000	-
8:27	0.000	0.000	8:27	0.000	0.000	-
8:28	0.000	0.000	8:28	0.000	0.000	-
8:29	0.000	0.000	8:29	0.000	0.000	-
8:30	0.000	0.000	8:30	0.000	0.000	-
8:31	0.000	0.000	8:31	0.000	0.000	-
8:32	0.000	0.000	8:32	0.000	0.000	-
8:33	0.000	0.000	8:33	0.000	0.000	-
8:34	0.000	0.000	8:34	0.000	0.000	-
8:35	0.000	0.000	8:35	0.000	0.000	-
8:36	0.000	0.000	8:36	0.000	0.000	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
8:37	0.000	0.000	8:37	0.000	0.000	-
8:38	0.000	0.000	8:38	0.000	0.000	-
8:39	0.000	0.000	8:39	0.000	0.000	-
8:40	0.000	0.000	8:40	0.000	0.000	-
8:41	0.000	0.000	8:41	0.000	0.000	-
8:42	0.000	0.000	8:42	0.000	0.000	-
8:43	0.000	0.000	8:43	0.000	0.000	-
8:44	0.000	0.000	8:44	0.000	0.000	-
8:45	0.000	0.000	8:45	0.000	0.000	-
8:46	0.000	0.000	8:46	0.000	0.000	-
8:47	0.000	0.000	8:47	0.000	0.000	-
8:48	0.000	0.000	8:48	0.000	0.000	-
8:49	0.000	0.000	8:49	0.000	0.000	-
8:50	0.000	0.000	8:50	0.000	0.000	-
8:51	0.000	0.000	8:51	0.000	0.000	-
8:52	0.000	0.000	8:52	0.000	0.000	-
8:53	0.000	0.000	8:53	0.000	0.000	-
8:54	0.000	0.000	8:54	0.000	0.000	-
8:55	0.000	0.000	8:55	0.000	0.000	-
8:56	0.000	0.000	8:56	0.000	0.000	-
8:57	0.000	0.000	8:57	0.000	0.000	-
8:58	0.000	0.000	8:58	0.000	0.000	-
8:59	0.000	0.000	8:59	0.000	0.000	-
9:00	0.000	0.000	9:00	0.000	0.000	-
9:01	0.000	0.000	9:01	0.000	0.000	-
9:02	0.000	0.000	9:02	0.000	0.000	-
9:03	0.000	0.000	9:03	0.000	0.000	-
9:04	0.024	0.002	9:04	0.000	0.000	-
9:05	0.048	0.005	9:05	0.000	0.000	-
9:06	0.037	0.007	9:06	0.000	0.000	-
9:07	0.028	0.009	9:07	0.000	0.000	-
9:08	0.023	0.011	9:08	0.000	0.000	-
9:09	0.017	0.012	9:09	0.000	0.000	-
9:10	0.014	0.013	9:10	0.000	0.000	-
9:11	0.011	0.013	9:11	0.000	0.000	-
9:12	0.009	0.014	9:12	0.000	0.000	-
9:13	0.007	0.015	9:13	0.000	0.000	-
9:14	0.005	0.015	9:14	0.000	0.000	-
9:15	0.004	0.015	9:15	0.000	0.000	-
9:16	0.003	0.015	9:16	0.000	0.000	-
9:17	0.003	0.016	9:17	0.000	0.000	-
9:18	0.002	0.016	9:18	0.000	0.000	-
9:19	0.001	0.014	9:19	0.000	0.000	-
9:20	0.001	0.011	9:20	0.000	0.000	-
9:21	0.001	0.009	9:21	0.000	0.000	-
9:22	0.000	0.007	9:22	0.000	0.000	-
9:23	0.000	0.005	9:23	0.000	0.000	-
9:24	0.000	0.004	9:24	0.000	0.000	-
9:25	0.000	0.003	9:25	0.000	0.000	-
9:26	0.000	0.002	9:26	0.000	0.000	-
9:27	0.000	0.002	9:27	0.000	0.000	-
9:28	0.000	0.001	9:28	0.000	0.000	-
9:29	0.000	0.001	9:29	0.000	0.000	-
9:30	0.000	0.001	9:30	0.000	0.000	-
9:31	0.000	0.001	9:31	0.000	0.000	-
9:32	0.000	0.000	9:32	0.000	0.000	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
9:33	0.000	0.000	9:33	0.000	0.000	-
9:34	0.000	0.000	9:34	0.000	0.000	-
9:35	0.000	0.000	9:35	0.000	0.000	-
9:36	0.000	0.000	9:36	0.000	0.000	-
9:37	0.000	0.000	9:37	0.000	0.000	-
9:38	-0.001	0.000	9:38	0.000	0.000	-
9:39	-0.001	0.000	9:39	0.000	0.000	-
9:40	-0.001	0.000	9:40	0.000	0.000	-
9:41	-0.001	0.000	9:41	0.000	0.000	-
9:42	-0.001	0.000	9:42	0.000	0.000	-
9:43	-0.001	0.000	9:43	0.000	0.000	-
9:44	-0.001	0.000	9:44	0.000	0.000	-
9:45	-0.001	-0.001	9:45	0.000	0.000	-
9:46	-0.001	-0.001	9:46	0.000	0.000	-
9:47	-0.001	-0.001	9:47	0.000	0.000	-
9:48	-0.001	-0.001	9:48	0.000	0.000	-
9:49	-0.001	-0.001	9:49	0.000	0.000	-
9:50	-0.001	-0.001	9:50	0.000	0.000	-
9:51	-0.001	-0.001	9:51	0.000	0.000	-
9:52	-0.001	-0.001	9:52	0.000	0.000	-
9:53	-0.001	-0.001	9:53	0.000	0.000	-
9:54	-0.001	-0.001	9:54	0.000	0.000	-
9:55	-0.001	-0.001	9:55	0.000	0.000	-
9:56	-0.001	-0.001	9:56	0.000	0.000	-
9:57	-0.001	-0.001	9:57	0.000	0.000	-
9:58	-0.001	-0.001	9:58	0.000	0.000	-
9:59	-0.001	-0.001	9:59	0.000	0.000	-
10:00	-0.001	-0.001	10:00	0.000	0.000	-
10:01	-0.001	-0.001	10:01	0.000	0.000	-
10:02	-0.001	-0.001	10:02	0.000	0.000	-
10:03	-0.001	-0.001	10:03	0.000	0.000	-
10:04	-0.001	-0.001	10:04	0.000	0.000	-
10:05	-0.001	-0.001	10:05	0.000	0.000	-
10:06	-0.001	-0.001	10:06	0.000	0.000	-
10:07	-0.001	-0.001	10:07	0.000	0.000	-
10:08	-0.001	-0.001	10:08	0.000	0.000	-
10:09	-0.001	-0.001	10:09	0.000	0.000	-
10:10	-0.001	-0.001	10:10	0.000	0.000	-
10:11	-0.001	-0.001	10:11	0.000	0.000	-
10:12	-0.001	-0.001	10:12	0.000	0.000	-
10:13	-0.001	-0.001	10:13	0.000	0.000	-
10:14	-0.001	-0.001	10:14	0.000	0.000	-
10:15	-0.001	-0.001	10:15	0.000	0.000	-
10:16	-0.001	-0.001	10:16	0.000	0.000	-
10:17	-0.001	-0.001	10:17	0.000	0.000	-
10:18	-0.001	-0.001	10:18	0.000	0.000	-
10:19	-0.001	-0.001	10:19	0.000	0.000	-
10:20	-0.001	-0.001	10:20	0.000	0.000	-
10:21	-0.001	-0.001	10:21	0.000	0.000	-
10:22	-0.001	-0.001	10:22	0.000	0.000	-
10:23	-0.001	-0.001	10:23	0.000	0.000	-
10:24	-0.001	-0.001	10:24	0.000	0.000	-
10:25	-0.001	-0.001	10:25	0.000	0.000	-
10:26	-0.001	-0.001	10:26	0.000	0.000	-
10:27	-0.001	-0.001	10:27	0.000	0.000	-
10:28	-0.001	-0.001	10:28	0.000	0.000	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
10:29	-0.001	-0.001	10:29	0.000	0.000	-
10:30	-0.001	-0.001	10:30	0.000	0.000	-
10:31	-0.001	-0.001	10:31	0.000	0.000	-
10:32	-0.001	-0.001	10:32	0.000	0.000	-
10:33	-0.001	-0.001	10:33	0.000	0.000	-
10:34	-0.001	-0.001	10:34	0.000	0.000	-
10:35	-0.001	-0.001	10:35	0.000	0.000	-
10:36	-0.001	-0.001	10:36	0.000	0.000	-
10:37	-0.001	-0.001	10:37	0.000	0.000	-
10:38	-0.001	-0.001	10:38	0.000	0.000	-
10:39	-0.001	-0.001	10:39	0.000	0.000	-
10:40	-0.001	-0.001	10:40	0.000	0.000	-
10:41	-0.001	-0.001	10:41	0.000	0.000	-
10:42	-0.001	-0.001	10:42	0.000	0.000	-
10:43	-0.001	-0.001	10:43	0.000	0.000	-
10:44	-0.001	-0.001	10:44	0.000	0.000	-
10:45	-0.001	-0.001	10:45	0.000	0.000	-
10:46	-0.001	-0.001	10:46	0.000	0.000	-
10:47	-0.002	-0.001	10:47	0.000	0.000	-
10:48	-0.002	-0.001	10:48	0.000	0.000	-
10:49	-0.002	-0.001	10:49	0.000	0.000	-
10:50	-0.002	-0.001	10:50	0.000	0.000	-
10:51	-0.002	-0.001	10:51	0.000	0.000	-
10:52	-0.002	-0.001	10:52	0.000	0.000	-
10:53	-0.001	-0.001	10:53	0.000	0.000	-
10:54	-0.002	-0.001	10:54	0.000	0.000	-
10:55	-0.001	-0.001	10:55	0.000	0.000	-
10:56	-0.002	-0.002	10:56	0.000	0.000	-
10:57	-0.002	-0.002	10:57	0.000	0.000	-
10:58	-0.002	-0.002	10:58	0.000	0.000	-
10:59	-0.002	-0.002	10:59	0.000	0.000	-
11:00	-0.002	-0.002	11:00	0.000	0.000	-
11:01	-0.002	-0.002	11:01	0.000	0.000	-
11:02	-0.002	-0.002	11:02	0.000	0.000	-
11:03	-0.002	-0.002	11:03	0.000	0.000	-
11:04	-0.002	-0.002	11:04	0.000	0.000	-
11:05	-0.002	-0.002	11:05	0.000	0.000	-
11:06	-0.002	-0.002	11:06	0.000	0.000	-
11:07	-0.002	-0.002	11:07	0.000	0.000	-
11:08	-0.002	-0.002	11:08	0.000	0.000	-
11:09	-0.002	-0.002	11:09	0.000	0.000	-
11:10	-0.002	-0.002	11:10	0.000	0.000	-
11:11	-0.002	-0.002	11:11	0.000	0.000	-
11:12	-0.002	-0.002	11:12	0.000	0.000	-
11:13	-0.002	-0.002	11:13	0.000	0.000	-
11:14	-0.002	-0.002	11:14	0.000	0.000	-
11:15	-0.002	-0.002	11:15	0.000	0.000	-
11:16	-0.002	-0.002	11:16	0.000	0.000	-
11:17	-0.002	-0.002	11:17	0.000	0.000	-
11:18	-0.002	-0.002	11:18	0.000	0.000	-
11:19	-0.002	-0.002	11:19	0.000	0.000	-
11:20	-0.002	-0.002	11:20	0.000	0.000	-
11:21	-0.002	-0.002	11:21	0.000	0.000	-
11:22	-0.002	-0.002	11:22	0.000	0.000	-
11:23	-0.002	-0.002	11:23	0.000	0.000	-
11:24	-0.002	-0.002	11:24	0.000	0.000	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	PM 10 (mg/m^3)	15-Minute Average	Time	PM 10 (mg/m^3)	15-Minute Average	
11:25	-0.002	-0.002	11:25	0.000	0.000	-
11:26	-0.002	-0.002	11:26	0.000	0.000	-
11:27	-0.002	-0.002	11:27	0.000	0.000	-
11:28	-0.002	-0.002	11:28	0.000	0.000	-
11:29	-0.002	-0.002	11:29	0.000	0.000	-
11:30	-0.002	-0.002	11:30	0.000	0.000	-
11:31	-0.002	-0.002	11:31	0.000	0.000	-
11:32	-0.002	-0.002	11:32	0.000	0.000	-
11:33	-0.002	-0.002	11:33	0.000	0.000	-
11:34	-0.002	-0.002	11:34	0.000	0.000	-
11:35	-0.002	-0.002	11:35	0.000	0.000	-
11:36	-0.002	-0.002	11:36	0.000	0.000	-
11:37	-0.002	-0.002	11:37	0.000	0.000	-
11:38	-0.002	-0.002	11:38	0.000	0.000	-
11:39	-0.002	-0.002	11:39	0.000	0.000	-
11:40	-0.002	-0.002	11:40	0.000	0.000	-
11:41	-0.002	-0.002	11:41	0.000	0.000	-
11:42	-0.003	-0.002	11:42	0.000	0.000	-
11:43	-0.002	-0.002	11:43	0.000	0.000	-
11:44	-0.003	-0.002	11:44	0.000	0.000	-
11:45	-0.003	-0.002	11:45	0.000	0.000	-
11:46	-0.003	-0.002	11:46	0.000	0.000	-
11:47	-0.003	-0.002	11:47	0.000	0.000	-
11:48	-0.003	-0.002	11:48	0.000	0.000	-
11:49	-0.003	-0.002	11:49	0.000	0.000	-
11:50	-0.003	-0.003	11:50	0.000	0.000	-
11:51	-0.003	-0.003	11:51	0.001	0.000	-
11:52	-0.003	-0.003	11:52	0.001	0.000	-
11:53	-0.003	-0.003	11:53	0.001	0.000	-
11:54	-0.003	-0.003	11:54	0.001	0.000	-
11:55	-0.003	-0.003	11:55	0.001	0.000	-
11:56	-0.003	-0.003	11:56	0.001	0.000	-
11:57	-0.003	-0.003	11:57	0.001	0.000	-
11:58	-0.003	-0.003	11:58	0.001	0.001	-
11:59	-0.003	-0.003	11:59	0.001	0.001	-
12:00	-0.003	-0.003	12:00	0.001	0.001	-
12:01	-0.003	-0.003	12:01	0.001	0.001	-
12:02	-0.003	-0.003	12:02	0.001	0.001	-
12:03	-0.003	-0.003	12:03	0.001	0.001	-
12:04	-0.003	-0.003	12:04	0.001	0.001	-
12:05	-0.003	-0.003	12:05	0.001	0.001	-
12:06	-0.002	-0.003	12:06	0.001	0.001	-
12:07	-0.003	-0.003	12:07	0.001	0.001	-
12:08	-0.003	-0.003	12:08	0.122	0.009	-
12:09	-0.003	-0.003	12:09	0.071	0.014	-
12:10	0.011	-0.002	12:10	0.050	0.017	-
12:11	0.028	0.000	12:11	0.064	0.021	-

Friday, April 28, 2017						
Number of Instances Where Downwind VOCs Exceeds Upwind VOCs + 5 ppm =						0
Number of Comparable Data Points =						0
PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
8:19			8:19	0.00		
8:20			8:20	0.00		
8:21			8:21	0.00		
8:22			8:22	0.00		
8:23			8:23	0.00		
8:24			8:24	0.00		
8:25			8:25	0.00		
8:26			8:26	0.00		
8:27			8:27	0.00		
8:28			8:28	0.00		
8:29			8:29	0.00		
8:30			8:30	0.00		
8:31			8:31	0.00		
8:32			8:32	0.00		
8:33			8:33	0.00	0.0	
8:34			8:34	0.00	0.0	
8:35			8:35	0.01	0.0	
8:36			8:36	0.06	0.0	
8:37			8:37	0.10	0.0	
8:38			8:38	0.15	0.0	
8:39			8:39	0.19	0.0	
8:40			8:40	0.23	0.0	
8:41			8:41	0.26	0.1	
8:42			8:42	0.30	0.1	
8:43			8:43	0.33	0.1	
8:44			8:44	0.36	0.1	
8:45			8:45	0.39	0.2	
8:46			8:46	0.42	0.2	
8:47			8:47	0.45	0.2	
8:48			8:48	0.48	0.2	
8:49			8:49	0.51	0.3	
8:50			8:50	0.53	0.3	
8:51			8:51	0.56	0.4	
8:52			8:52	0.58	0.4	
8:53			8:53	0.61	0.4	
8:54			8:54	0.63	0.4	
8:55			8:55	0.65	0.5	
8:56			8:56	0.67	0.5	
8:57			8:57	0.70	0.5	
8:58			8:58	0.72	0.6	
8:59			8:59	0.74	0.6	
9:00			9:00	0.77	0.6	
9:01			9:01	0.79	0.6	
9:02			9:02	0.81	0.7	
9:03			9:03	0.83	0.7	
9:04			9:04	0.86	0.7	
9:05			9:05	0.88	0.7	
9:06			9:06	0.90	0.7	
9:07			9:07	0.92	0.8	
9:08			9:08	0.95	0.8	

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
9:09			9:09	0.97	0.8	
9:10			9:10	0.98	0.8	
9:11			9:11	1.01	0.9	
9:12			9:12	1.03	0.9	
9:13			9:13	1.04	0.9	
9:14			9:14	1.06	0.9	
9:15			9:15	1.07	0.9	
9:16			9:16	1.09	1.0	
9:17			9:17	1.10	1.0	
9:18			9:18	1.13	1.0	
9:19			9:19	1.14	1.0	
9:20			9:20	1.16	1.0	
9:21			9:21	1.17	1.1	
9:22			9:22	1.20	1.1	
9:23			9:23	1.21	1.1	
9:24			9:24	1.23	1.1	
9:25			9:25	1.25	1.1	
9:26			9:26	1.27	1.1	
9:27			9:27	1.29	1.2	
9:28			9:28	1.30	1.2	
9:29			9:29	1.32	1.2	
9:30			9:30	1.34	1.2	
9:31			9:31	1.36	1.2	
9:32			9:32	1.37	1.2	
9:33			9:33	1.39	1.3	
9:34			9:34	1.41	1.3	
9:35			9:35	1.42	1.3	
9:36			9:36	1.44	1.3	
9:37			9:37	1.45	1.3	
9:38			9:38	1.47	1.4	
9:39			9:39	1.48	1.4	
9:40			9:40	1.49	1.4	
9:41			9:41	1.51	1.4	
9:42			9:42	1.52	1.4	
9:43			9:43	1.53	1.4	
9:44			9:44	1.55	1.4	
9:45			9:45	1.55	1.5	
9:46			9:46	1.56	1.5	
9:47			9:47	1.58	1.5	
9:48			9:48	1.58	1.5	
9:49			9:49	1.60	1.5	
9:50			9:50	1.62	1.5	
9:51			9:51	1.62	1.5	
9:52			9:52	1.63	1.6	
9:53			9:53	1.64	1.6	
9:54			9:54	1.65	1.6	
9:55			9:55	1.66	1.6	
9:56			9:56	1.68	1.6	
9:57			9:57	1.69	1.6	
9:58			9:58	1.69	1.6	
9:59			9:59	1.70	1.6	
10:00			10:00	1.71	1.6	
10:01			10:01	1.72	1.7	
10:02			10:02	1.73	1.7	
10:03			10:03	1.74	1.7	

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
10:04			10:04	1.75	1.7	
10:05			10:05	1.75	1.7	
10:06			10:06	1.77	1.7	
10:07			10:07	1.77	1.7	
10:08			10:08	1.79	1.7	
10:09			10:09	1.81	1.7	
10:10			10:10	1.82	1.7	
10:11			10:11	1.84	1.8	
10:12			10:12	1.84	1.8	
10:13			10:13	1.86	1.8	
10:14			10:14	1.87	1.8	
10:15			10:15	1.88	1.8	
10:16			10:16	1.90	1.8	
10:17			10:17	1.93	1.8	
10:18			10:18	1.95	1.8	
10:19			10:19	1.97	1.8	
10:20			10:20	1.98	1.9	
10:21			10:21	1.99	1.9	
10:22			10:22	2.00	1.9	
10:23			10:23	2.01	1.9	
10:24			10:24	2.02	1.9	
10:25			10:25	2.04	1.9	
10:26			10:26	2.06	2.0	
10:27			10:27	2.08	2.0	
10:28			10:28	2.09	2.0	
10:29			10:29	2.10	2.0	
10:30			10:30	2.11	2.0	
10:31			10:31	2.12	2.0	
10:32			10:32	1.56	2.0	
10:33			10:33	1.10	1.9	
10:34			10:34	1.36	1.9	
10:35			10:35	1.51	1.9	
10:36			10:36	1.59	1.8	
10:37			10:37	1.66	1.8	
10:38			10:38	1.72	1.8	
10:39			10:39	1.79	1.8	
10:40			10:40	1.83	1.8	
10:41			10:41	1.88	1.8	
10:42			10:42	1.92	1.8	
10:43			10:43	1.95	1.7	
10:44			10:44	1.99	1.7	
10:45			10:45	2.02	1.7	
10:46			10:46	2.05	1.7	
10:47			10:47	2.08	1.8	
10:48			10:48	2.10	1.8	
10:49			10:49	2.14	1.9	
10:50			10:50	2.16	1.9	
10:51			10:51	2.19	2.0	
10:52			10:52	2.21	2.0	
10:53			10:53	2.23	2.0	
10:54			10:54	2.27	2.1	
10:55			10:55	2.29	2.1	
10:56			10:56	2.31	2.1	
10:57			10:57	2.33	2.2	
10:58			10:58	2.36	2.2	

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
10:59			10:59	2.39	2.2	
11:00			11:00	2.41	2.2	
11:01			11:01	2.43	2.3	
11:02			11:02	2.46	2.3	
11:03			11:03	2.49	2.3	
11:04			11:04	2.50	2.3	
11:05			11:05	2.52	2.4	
11:06			11:06	2.54	2.4	
11:07			11:07	2.57	2.4	
11:08			11:08	2.58	2.4	
11:09			11:09	2.59	2.5	
11:10			11:10	2.61	2.5	
11:11			11:11	2.64	2.5	
11:12			11:12	2.68	2.5	
11:13			11:13	2.71	2.5	
11:14			11:14	2.73	2.6	
11:15			11:15	2.77	2.6	
11:16			11:16	2.79	2.6	
11:17			11:17	2.81	2.6	
11:18			11:18	2.82	2.7	
11:19			11:19	2.83	2.7	
11:20			11:20	2.85	2.7	
11:21			11:21	2.87	2.7	
11:22			11:22	2.91	2.7	
11:23			11:23	2.94	2.8	
11:24			11:24	2.96	2.8	
11:25			11:25	2.98	2.8	
11:26			11:26	3.01	2.8	
11:27			11:27	3.04	2.9	
11:28			11:28	3.06	2.9	
11:29			11:29	3.08	2.9	
11:30			11:30	3.11	2.9	
11:31			11:31	3.13	3.0	
11:32			11:32	3.16	3.0	
11:33			11:33	3.19	3.0	
11:34			11:34	3.22	3.0	
11:35			11:35	3.26	3.1	
11:36			11:36	3.28	3.1	
11:37			11:37	3.31	3.1	
11:38			11:38	3.32	3.1	
11:39			11:39	3.33	3.2	
11:40			11:40	3.35	3.2	
11:41			11:41	3.38	3.2	
11:42			11:42	3.40	3.2	
11:43			11:43	3.42	3.3	
11:44			11:44	3.44	3.3	
11:45			11:45	3.47	3.3	
11:46			11:46	3.49	3.3	
11:47			11:47	3.52	3.4	
11:48			11:48	3.56	3.4	
11:49			11:49	3.59	3.4	
11:50			11:50	3.62	3.4	
11:51			11:51	3.65	3.5	
11:52			11:52	3.67	3.5	
11:53			11:53	3.69	3.5	

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
11:54			11:54	3.71	3.5	
11:55			11:55	3.73	3.6	
11:56			11:56	3.76	3.6	
11:57			11:57	3.80	3.6	
11:58			11:58	3.83	3.6	
11:59			11:59	3.85	3.7	
12:00			12:00	3.86	3.7	
12:01			12:01	3.89	3.7	
12:02			12:02	3.91	3.7	
12:03			12:03	3.93	3.8	
12:04			12:04	3.94	3.8	
12:05			12:05	3.96	3.8	
12:06			12:06	3.99	3.8	
12:07			12:07	4.02	3.9	
12:08			12:08	4.05	3.9	
12:09			12:09	4.11	3.9	
12:10			12:10	4.18	3.9	
12:11			12:11	4.24	4.0	
12:12			12:12	4.29	4.0	
12:13			12:13	4.36	4.0	
12:14			12:14	4.42	4.1	
12:15			12:15	4.47	4.1	
12:16			12:16	4.53	4.2	
12:17			12:17	4.56	4.2	
12:18			12:18	4.60	4.2	
12:19			12:19	4.65	4.3	
12:20			12:20	4.69	4.3	
12:21			12:21	4.73	4.4	
12:22			12:22	4.77	4.4	
12:23			12:23	4.83	4.5	
12:24			12:24	4.87	4.5	
12:25			12:25	4.91	4.6	
12:26			12:26	4.96	4.6	
12:27			12:27	5.02	4.7	
12:28			12:28	5.05	4.7	
12:29			12:29	5.11	4.8	
12:30			12:30	5.16	4.8	
12:31			12:31	5.21	4.9	
12:32			12:32	5.29	4.9	
12:33			12:33	5.35	5.0	
12:34			12:34	5.40	5.0	
12:35			12:35	5.47	5.1	
12:36			12:36	5.54	5.1	
12:37			12:37	5.60	5.2	
12:38			12:38	5.66	5.2	
12:39			12:39	5.69	5.3	
12:40			12:40	5.71	5.3	
12:41			12:41	5.76	5.4	
12:42			12:42	5.79	5.5	
12:43			12:43	5.81	5.5	
12:44			12:44	5.84	5.6	
12:45			12:45	5.89	5.6	
12:46			12:46	5.94	5.6	
12:47			12:47	5.99	5.7	
12:48			12:48	6.00	5.7	

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
12:49			12:49	6.00	5.8	
12:50			12:50	6.04	5.8	
12:51			12:51	6.08	5.9	
12:52			12:52	6.11	5.9	
12:53			12:53	6.13	5.9	
12:54			12:54	6.18	6.0	
12:55			12:55	6.24	6.0	
12:56			12:56	6.28	6.0	
12:57			12:57	6.30	6.1	
12:58			12:58	6.29	6.1	
12:59			12:59	6.30	6.1	
13:00			13:00	6.31	6.1	
13:01			13:01	6.33	6.2	
13:02			13:02	6.30	6.2	
13:03			13:03	6.32	6.2	
13:04			13:04	6.34	6.2	
13:05			13:05	6.36	6.3	
13:06			13:06	6.34	6.3	
13:07			13:07	6.33	6.3	
13:08			13:08	6.32	6.3	
13:09			13:09	6.30	6.3	
13:10			13:10	6.28	6.3	
13:11			13:11	6.30	6.3	
13:12			13:12	6.32	6.3	
13:13			13:13	6.32	6.3	
13:14			13:14	6.32	6.3	
13:15			13:15	6.33	6.3	
13:16			13:16	6.33	6.3	
13:17			13:17	6.35	6.3	
13:18			13:18	6.36	6.3	
13:19			13:19	6.39	6.3	
13:20			13:20	6.42	6.3	
13:21			13:21	6.44	6.3	
13:22			13:22	6.46	6.3	
13:23			13:23	6.46	6.4	
13:24			13:24	6.46	6.4	
13:25			13:25	6.50	6.4	
13:26			13:26	6.55	6.4	
13:27			13:27	6.60	6.4	
13:28			13:28	6.65	6.4	
13:29			13:29	6.71	6.5	
13:30			13:30	6.76	6.5	
13:31			13:31	6.78	6.5	
13:32			13:32	6.79	6.6	
13:33			13:33	6.77	6.6	
13:34			13:34	6.76	6.6	
13:35			13:35	6.79	6.6	
13:36			13:36	6.82	6.7	
13:37			13:37	6.86	6.7	
13:38			13:38	4.26	6.5	
13:39			13:39	0.93	6.2	

APPENDIX J

DATA USABILITY SUMMARY REPORTS

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

Technical Memorandum

2700 Kelly Road, Suite 200 Warrington, PA 18976 T: 215.491.6500 F: 215.491.6501
Mailing Address: P.O. Box 1569 Doylestown, PA 18901

To: Albert Tashji, Langan Project Engineer

From: Emily Strake, Langan Senior Project Chemist/Risk Assessor

Date: August 1, 2017

Re: Data Usability Summary Report
For 450 Union Street
Groundwater Samples Collected February 2017
Langan Project No.: 170301202

This memorandum presents the findings of an analytical data validation of the data generated from the analysis of groundwater samples collected in February 20, 2017 by Langan Engineering and Environmental Services ("Langan") at the 450 Union Street site ("the Site"). The samples were analyzed by Alpha Analytical (NYSDOH ELAP registration # 11148) for semi-volatile organic compounds (SVOCs) by the methods below.

- SVOCs SW-846 Method 8270D and 8270C with SIM

Table 1, below, summarizes the laboratory and client sample identification numbers, sample collection dates, and analytical parameters subject to review.

TABLE 1: SAMPLE SUMMARY

SDG	*Lab Sample ID*	*Client Sample ID*	*Sample Date*	*Analytical Parameters*
L1705424	L1705424-01	MW14_022017	02/20/17	SVOCs
L1705424	L1705424-02	MW14_022017_FF	02/20/17	SVOCs
L1705424	L1705424-03	MW16_022017	02/20/17	SVOCs
L1705424	L1705424-04	MW16_022017_FF	02/20/17	SVOCs
L1705424	L1705424-05	MW17_022017	02/20/17	SVOCs
L1705424	L1705424-06	MW17_022017_FF	02/20/17	SVOCs

Validation Overview

This data validation was performed in accordance with USEPA Region II Standard Operating Procedure (SOP) #HW-35A, "Semivolatile Data Validation" (September 2019, Revision 1), and

the USEPA Contract Laboratory Program "National Functional Guidelines for Superfund Organic Methods Data Review" (USEPA-540R-2017-002, January 2017).

Validation includes review of the analytical data to verify that data are easily traceable and sufficiently complete to permit logical reconstruction by a qualified individual other than the originator. Items subject to review in this memorandum include holding times, sample preservation, sample extraction, instrument tuning, instrument calibration, laboratory blanks, laboratory control samples, system monitoring compounds, internal standard area counts, matrix spike/spike duplicate recoveries, target compound identification and quantification, chromatograms, and overall system performance.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA's guidelines and best professional judgment:

- **R –** The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
- **J –** The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- **UJ –** The analyte was not detected at a level greater than or equal to the reporting limit (RL); however, the reported RL is approximate and may be inaccurate or imprecise.
- **U –** The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.
- **NJ –** The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned these qualifiers should supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items specified for review. Data that is qualified as "R" are not sufficiently valid and technically supportable to be used for data interpretation. Data that is otherwise qualified due to minor data quality anomalies are usable, as qualified.

TABLE 2: VALIDATOR-APPLIED QUALIFICATION

Client Sample ID	*Analysis*	*Analyte*	*CAS #*	*Validator Qualifier*
MW14_022017	SW8270D	HEXACHLOROCYCLOPENTADIENE	77-47-4	UJ
MW14_022017	SW8270DSIM	NAPHTHALENE	91-20-3	U (0.2)
MW14_022017_FF	SW8270D	HEXACHLOROCYCLOPENTADIENE	77-47-4	UJ
MW16_022017	SW8270D	HEXACHLOROCYCLOPENTADIENE	77-47-4	UJ
MW16_022017_FF	SW8270D	HEXACHLOROCYCLOPENTADIENE	77-47-4	UJ
MW17_022017	SW8270D	HEXACHLOROCYCLOPENTADIENE	77-47-4	UJ
MW17_022017_FF	SW8270D	HEXACHLOROCYCLOPENTADIENE	77-47-4	UJ

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. No major deficiencies were identified.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. The section below describes the minor deficiencies that were identified.

SVOCs by SW-846 Method 8270D and 8720C with SIM:

LCS/LCSD WG980565-2/3 displayed recoveries less than the lower control limit for hexachlorocyclopentadiene at 29% and 32%, respectively. The associated sample results are qualified as "UJ." In addition, the LCS/LCSD displayed recoveries and RPDs greater than the control limit for p-chloro-m-cresol and benzoic acid. The associated sample results were non-detect; qualification is not necessary.

Method blank sample WG980566-1 displayed a positive detection for naphthalene at 0.07 ug/L. The associated positive sample result is qualified as "U" at the reporting limit.

OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. The section below describes the other deficiencies that were identified.

SVOCs by SW-846 Method 8270D and 8720C with SIM:

Method blank sample WG980565-1 displayed a positive detection for bis(2-ethylhexyl)phthalate at 1.7 ug/L. The associated sample results were non-detect; qualification is not necessary.

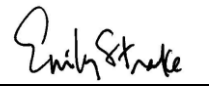
The continuing calibration analyzed on 2/25/17 at 10:22 displayed %Ds greater than the control limit with positive biases for bis(2-ethylhexyl)phthalate, di-n-octylphthalate, and butyl benzyl phthalate. The associated sample results were non-detect; on the basis of professional judgment, qualification is not necessary.

COMMENTS:

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All of the sample holdtimes were met and data packages met ASP Category B requirements.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

Signed:



Emily Strake, CEP
Senior Project Chemist/Risk Assessor

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

Technical Memorandum

2700 Kelly Road, Suite 200 Warrington, PA 18976 T: 215.491.6500 F: 215.491.6501
Mailing Address: P.O. Box 1569 Doylestown, PA 18901

To: Albert Tashji, Langan Project Engineer

From: Emily Strake, Langan Senior Project Chemist/Risk Assessor

Date: August 1, 2017

Re: Data Usability Summary Report
For 450 Union Street
Soil Samples Collected February and April 2017
Langan Project No.: 170301202

This memorandum presents the findings of an analytical data validation of the data generated from the analysis of soil samples collected in February and April 2017 by Langan Engineering and Environmental Services ("Langan") at the 450 Union Street site ("the Site"). The samples were analyzed by Alpha Analytical (NYSDOH ELAP registration # 11148) for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, herbicides, metals, mercury (Hg), cyanide (CN-), hexavalent chromium (CrVI), and percent solids (%S) by the methods listed below.

- VOCs by SW-846 Method 8260C
- SVOCs SW-846 Method 8270D
- PCBs by SW-846 Method 8082A
- Pesticides by SW-846 Method 8081B
- Herbicides by SW-846 Method 8151A
- Metals by SW-846 Methods 6010C and 6020A
- Mercury by SW-846 Methods 7470A and 7471B
- Cyanide by SW-846 Method 9010C/9012B
- Hexavalent Chromium by SW-846 Method 7196A
- TCLP by EPA Method 1312
- Percent solids by Method SM 2540G

Table 1, below, summarizes the laboratory and client sample identification numbers, sample collection dates, and analytical parameters subject to review.

TABLE 1: SAMPLE SUMMARY

SDG	*Lab Sample ID*	*Client Sample ID*	*Sample Date*	*Analytical Parameters*
L1705425	L1705425-01	SB2E2_EP_SW1	02/20/17	Total and TCLP Lead, %S
L1705425	L1705425-02	SB2E2_EP_SW2	02/20/17	Total and TCLP Lead, %S
L1705425	L1705425-03	SB2E2_EP_SW3	02/20/17	Total and TCLP Lead, %S
L1705425	L1705425-04	SB2E2_EP_SW4	02/20/17	Total and TCLP Lead, %S
L1705425	L1705425-05	SB2E2_EP_B	02/20/17	Total and TCLP Lead, %S
L1710168	L1710168-01	EPN_8-9	04/03/17	VOCs, SVOCs, %S
L1710168	L1710168-02	EPE_8-9	04/03/17	VOCs, SVOCs, %S
L1710168	L1710168-03	EPS_8-9	04/03/17	VOCs, SVOCs, %S
L1710168	L1710168-04	EPW_8-9	04/03/17	VOCs, SVOCs, %S
L1710168	L1710168-05	EPB_8-9	04/03/17	VOCs, SVOCs, %S
L1710168	L1710168-06	EPB_9-10	04/03/17	VOCs, SVOCs, %S
L1710168	L1710168-07	DUP01_040317	04/03/17	VOCs, SVOCs, %S
L1710168	L1710168-08	UST01_040317	04/03/17	VOCs, SVOCs, %S
L1710724	L1710724-01	DS03_1-2	04/06/17	VOCs, SVOCs, Pesticides, Herbicides, PCBs, Metals, CN-, CrVI, %S
L1713623	L1713623-01	DS07_3-4	04/28/17	VOCs, SVOCs, Pesticides, Herbicides, PCBs, Metals, CN-, CrVI, %S
L1713623	L1713623-02	DS08_1-2	04/28/17	VOCs, SVOCs, Pesticides, Herbicides, PCBs, Metals, CN-, CrVI, %S
L1711107	L1711107-01	DS04_3-4	04/10/17	VOCs, SVOCs, Pesticides, Herbicides, PCBs, Metals, CN-, CrVI, %S
L1711107	L1711107-02	DS05_3-4	04/10/17	VOCs, SVOCs, Pesticides, Herbicides, PCBs, Metals, CN-, CrVI, %S
L1711107	L1711107-03	DS06_3-4	04/10/17	VOCs, SVOCs, Pesticides, Herbicides, PCBs, Metals, CN-, CrVI, %S

SDG	Lab Sample ID	Client Sample ID	Sample Date	Analytical Parameters
L1710511	L1710511-01	DS01_1-2	04/05/17	VOCs, SVOCs, Pesticides, Herbicides, PCBs, Metals, CN-, CrVI, %S
L1710511	L1710511-02	DS02_1-2	04/05/17	VOCs, SVOCs, Pesticides, Herbicides, PCBs, Metals, CN-, CrVI, %S
L1710511	L1710511-03	FB01_040517	04/05/17	VOCs, SVOCs, Pesticides, Herbicides, PCBs, Metals, CN-, CrVI

Validation Overview

This data validation was performed in accordance with USEPA Region II Standard Operating Procedure (SOP) #HW-34A, "Trace Volatile Data Validation" (September 2016, Revision 1), USEPA Region II SOP #HW-35A, "Semivolatile Data Validation" (September 2016, Revision 1), USEPA Region II SOP #HW-36A, "Pesticide Data Validation" (October 2016, Revision 1), USEPA Region II SOP #HW-37A, "PCB Aroclor Data Validation" (June 2015, Revision 0), USEPA Region II SOP #HW-3a, "ICP-AES Data Validation" (September 2016, Revision 1), USEPA Region II SOP #HW-3b, "ICP-MS Data Validation" (September 2016, Revision 1), USEPA Region II SOP #HW3c, "Mercury and Cyanide Data Validation," (September 2016, Revision 1), the USEPA Contract Laboratory Program "National Functional Guidelines for Superfund Organic Methods Data Review" (USEPA-540R-2017-002, January 2017), and the "National Functional Guidelines for Inorganic Superfund Data Review" (USEPA-540R-2017-001, January 2017).

Validation includes review of the analytical data to verify that data are easily traceable and sufficiently complete to permit logical reconstruction by a qualified individual other than the originator. Items subject to review in this memorandum include holding times, sample preservation, sample extraction and digestion, instrument tuning, instrument calibration, laboratory blanks, laboratory control samples, system monitoring compounds, internal standard area counts, matrix spike/spike duplicate recoveries, target compound identification and quantification, chromatograms, overall system performance, serial dilutions, dual column performance, field duplicate, and field blank sample results.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA's guidelines and best professional judgment:

R – The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

J – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The analyte was not detected at a level greater than or equal to the reporting limit (RL); however, the reported RL is approximate and may be inaccurate or imprecise.

U – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

NJ – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned these qualifiers should supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items specified for review. Data that is qualified as "R" are not sufficiently valid and technically supportable to be used for data interpretation. Data that is otherwise qualified due to minor data quality anomalies are usable, as qualified.

TABLE 2: VALIDATOR-APPLIED QUALIFICATION:

Client Sample ID	*Analysis*	*Analyte*	*CAS #*	*Validator Qualifier*
SB2E2_EP_SW1	6010C	LEAD, TOTAL	7439-92-1	J
DUP01_040317	SW8260C	1,2,4-TRIMETHYLBENZENE	95-63-6	J
DUP01_040317	SW8260C	1,3,5-TRIMETHYLBENZENE	108-67-8	UJ
DUP01_040317	SW8260C	ISOPROPYLBENZENE	98-82-8	UJ
DUP01_040317	SW8260C	NAPHTHALENE	91-20-3	J
DUP01_040317	SW8260C	N-BUTYLBENZENE	104-51-8	UJ
DUP01_040317	SW8260C	N-PROPYLBENZENE	103-65-1	UJ
DUP01_040317	SW8260C	P-ISOPROPYLTOLUENE	99-87-6	UJ
DUP01_040317	SW8260C	SEC-BUTYLBENZENE	135-98-8	UJ
DUP01_040317	SW8260C	TERT-BUTYLBENZENE	98-06-6	UJ
EPB_8-9	SW8270D	ACENAPHTHENE	83-32-9	J

Client Sample ID	*Analysis*	*Analyte*	*CAS #*	*Validator Qualifier*
EPB_8-9	SW8270D	NAPHTHALENE	91-20-3	J
DUP01_040317	SW8270D	ACENAPHTHENE	83-32-9	J
DUP01_040317	SW8270D	NAPHTHALENE	91-20-3	J
DS03_1-2	SW8081B	DIELDRIN	60-57-1	J
DS03_1-2	SW8081B	CIS-CHLORDANE	5103-71-9	J
DS03_1-2	SW8081B	TRANS-CHLORDANE	5103-74-2	J
DS07_3-4	SW7196A	CHROMIUM, HEXAVALENT	18540-29-9	U (1)
DS07_3-4	SW8270D	BENZOIC ACID	65-85-0	UJ
DS08_1-2	SW7196A	CHROMIUM, HEXAVALENT	18540-29-9	U (1)
DS08_1-2	SW8270D	BENZOIC ACID	65-85-0	UJ
DS07_3-4	SW8081B	4,4'-DDD	72-54-8	J
DS07_3-4	SW8081B	ENDRIN	72-20-8	J
DS07_3-4	SW8081B	ENDRIN KETONE	53494-70-5	J
DS07_3-4	SW8081B	METHOXYCHLOR	72-43-5	J
DS07_3-4	SW8081B	TRANS-CHLORDANE	5103-74-2	J
DS08_1-2	SW8081B	4,4'-DDD	72-54-8	J
DS08_1-2	SW8081B	4,4'-DDE	72-55-9	J
DS08_1-2	SW8081B	CIS-CHLORDANE	5103-71-9	J
DS08_1-2	SW8081B	TRANS-CHLORDANE	5103-74-2	J
DS04_3-4	SW8081B	TRANS-CHLORDANE	5103-74-2	J
DS04_3-4	SW8270D	BENZOIC ACID	65-85-0	UJ
DS05_3-4	SW8081B	TRANS-CHLORDANE	5103-74-2	J
DS05_3-4	SW8260C	2-HEXANONE	591-78-6	UJ
DS05_3-4	SW8260C	NAPHTHALENE	91-20-3	U (2.9)
DS05_3-4	SW8270D	BENZOIC ACID	65-85-0	UJ
DS06_3-4	SW8260C	2-HEXANONE	591-78-6	UJ
DS06_3-4	SW8260C	NAPHTHALENE	91-20-3	U (2.7)
DS06_3-4	SW8270D	2,4,5-TRICHLOROPHENOL	95-95-4	UJ
DS06_3-4	SW8270D	2,4,6-TRICHLOROPHENOL	88-06-2	UJ
DS06_3-4	SW8270D	2,4-DICHLOROPHENOL	120-83-2	UJ
DS06_3-4	SW8270D	2,4-DIMETHYLPHENOL	105-67-9	UJ
DS06_3-4	SW8270D	2,4-DINITROPHENOL	51-28-5	UJ

Client Sample ID	Analysis	Analyte	CAS #	Validator Qualifier
DS06_3-4	SW8270D	2-CHLOROPHENOL	95-57-8	UJ
DS06_3-4	SW8270D	2-METHYLPHENOL	95-48-7	UJ
DS06_3-4	SW8270D	2-NITROPHENOL	88-75-5	UJ
DS06_3-4	SW8270D	3-METHYLPHENOL/4-METHYLPHENOL	MEPH3MEPH4	UJ
DS06_3-4	SW8270D	4,6-DINITRO-O-CRESOL	534-52-1	UJ
DS06_3-4	SW8270D	4-NITROPHENOL	100-02-7	UJ
DS06_3-4	SW8270D	BENZOIC ACID	65-85-0	UJ
DS06_3-4	SW8270D	BENZYL ALCOHOL	100-51-6	UJ
DS06_3-4	SW8270D	PENTACHLOROPHENOL	87-86-5	UJ
DS06_3-4	SW8270D	PHENOL	108-95-2	UJ
DS06_3-4	SW8270D	P-CHLORO-M-CRESOL	59-50-7	UJ
DS01_1-2	SW8081B	ENDRIN	72-20-8	J
DS01_1-2	SW8260C	METHYLENE CHLORIDE	75-09-2	UJ
DS01_1-2	SW8270D	BENZOIC ACID	65-85-0	UJ
DS02_1-2	SW8270D	BENZOIC ACID	65-85-0	UJ
FB01_040517	6020A	ANTIMONY, TOTAL	7440-36-0	U (0.004)
FB01_040517	SW8270D	BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	U (3)
FB01_040517	SW9012B	CYANIDE, TOTAL	57-12-5	UJ

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. No major deficiencies were identified.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. The section below describes the minor deficiencies that were identified.

VOCs by SW-846 Method 8260C:

Sample DUP01_040317 displayed an internal standard area count less than the lower control limit for 1,4-dichlorobenzene-d4 at 42%. Results for compounds quantitated by 1,4-dichlorobenzene-d4 are qualified as estimated.

Method blank sample WG993061-5 displayed a positive detection for naphthalene at 0.18 ug/kg. The associated positive detections are qualified as "U" at the reporting limit.

LCS/LCSD WG993460-3/4 displayed recoveries less than the lower control limit for 2-hexanne at 64% and 61%. The associated sample results are qualified as estimated. In addition, the LCS/LCSD recoveries and RPDs were greater than the control limit for 2,2-dichloroporpane and carbon disulfide. The associated sample results were non-detect; qualification is not necessary.

LCS/LCSD WG99307-1/4 displayed a recovery less than the lower control limit for methylene chloride at 66%. The associated non-detect sample result is qualified as "UJ." In addition, the LCSD recovery of carbon disulfide was greater than the control limit at 157%. The associated sample results were non-detect; qualification is not necessary.

SVOCs by SW-846 Method 8270D:

LCS/LCSD WG998923-2/3 did not recover for benzoic acid. The associated sample results are qualified as "UJ."

LCS/LCSD WG992911-2/3 displayed recoveries less than the lower control limit for benzoic acid at 7% and 9%. The associated sample results are qualified as "UJ."

Sample DS06_3-4 displayed surrogate recoveries less than the lower control limit for 2-fluorophenol at 19% and 2,4,6-tribromophenol at 6%. Results for acid-extractable compounds are qualified as estimated.

Method blank sample WG991872-1 displayed a positive detection for bis(2-ethylhexyl)phthalate at 4.0 ug/L. The associated positive field blank sample result was qualified as "U" at the reporting limit and was not used to assess contamination resulting from field sample transport activities.

LCS/LCSD WG992228-2/3 did not recover for benzoic acid. The associated sample results are qualified as "UJ."

Pesticides by SW-846 Method 8081B:

Sample DS03_1-2 displayed RPDs between the primary and secondary chromatography columns greater than the control limit for dieldrin at 87%, alpha-chlordane at 46%, and gamma-chlordane at 104%. The associated positive detections are qualified as "J".

Sample DS07_3-4 displayed RPDs between the primary and secondary chromatography columns greater than the control limit for endrin at 116%, endrin ketone at 42%, methoxychlor

at 140%, 4,4'-DDD at 103%, and trans-chlordane at 194%. The associated positive detections are qualified as "J."

Sample DS08_1-2 displayed RPDs between the primary and secondary chromatography columns greater than the control limit for 4,4'-DDE at 47%, 4,4'-DDD at 52%, alpha chlordane at 37%, and gamma-chlordane at 79%. The associated sample results are qualified as "J."

Sample DS04_3-4 displayed a RPD between the primary and secondary chromatography columns greater than the control limit for trans-chlordane at 170%. The associated positive detections are qualified as "J."

Sample DS05_3-4 displayed a RPD between the primary and secondary chromatography columns greater than the control limit for trans-chlordane at 72%. The associated positive detection is qualified as "J."

Sample DS01_1-2 displayed a RPD between the primary and secondary chromatography columns greater than the control limit for endrin at 53%. The associated positive detection is qualified as "J."

Metals by SW-846 Method 6020A and 6010C:

Laboratory duplicate sample SB2E2_EP_SW1 displayed a RPD greater than the control limit at 22%. The associated positive sample result is qualified as "J."

Preparation blank sample WG992079-1 displayed a positive detection for antimony at 0.00047 mg/L. The associated positive field blank sample result is qualified as "U" at the reporting limit.

Cyanide by SW-846 Method 9010C/9012B:

A container for cyanide analysis was not received by the laboratory for field blank sample FB01_040517. The laboratory obtained an aliquot from an unpreserved contained and immediately preserved it. The associated non-detect field blank sample result is qualified as "UJ."

Hexavalent Chromium by SW-846 Method 7196A:

Method blank sample WG1000286-1 displayed a positive detection at 0.26 mg/kg. The associated positive detections are qualified as "U" at the reporting limit.

OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. The section below describes the other deficiencies that were identified.

VOCs by SW-846 Method 8260C:

Sample UST01_040317 displayed a surrogate recovery greater than the upper control limit for BFB at 133%. The sample was analyzed at a 20X dilution; qualification is not necessary.

Sample DUP01_040317 displayed a surrogate recovery greater than the upper control limit for BFB at 132%. The remaining 3 volatile surrogates recovered within control. On the basis of professional judgment, qualification is not necessary.

MS/SD sample EPW_8-9 displayed recoveries less than the lower control limit for all volatile analytes except MTBE. In addition, all MS/SD RPDs were greater than the control limit for all analytes except MTBE and naphthalene. Data is not qualified on the basis of MS/SD recoveries or RPDs alone.

LCS/LCSD WG993061-3/4 displayed recoveries and RPDs greater than the control limit for carbon disulfide at 139%, 241%, and 54%, respectively. The associated sample result was non-detect; qualification is not necessary.

The continuing calibration analyzed on 4/11/17 at 07:04 displayed a %D greater than the control limit with positive bias for carbon disulfide at 38.9%. The associated sample result was non-detect; qualification is not necessary.

LCS/LCSD WG1000373-3/4 displayed an RPD greater than the control limit for carbon disulfide at 39%. The associated sample result was non-detect; qualification is not necessary.

Method blank sample WG1000373-5 displayed a positive detection for carbon disulfide at 1.9 ug/kg. The associated sample result was non-detect; qualification is not necessary.

Method blank sample WG993460-5 displayed a positive detection for bromomethane at 0.80 ug/kg. The associated sample results were non-detect; qualification is not necessary.

LCS/LCSD WG993557-3/4 displayed a recovery greater than the control limit for carbon disulfide at 140%. The associated sample result was non-detect; qualification is not necessary.

SVOCs by SW-846 Method 8270D:

Sample UST01_040317 displayed a surrogate recovery greater than the upper control limit for NBZ at 693%. The sample was analyzed at a 20X dilution; qualification is not necessary.

Sample EPW_8-9 displayed recoveries outside of control limits for fluoranthene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, benzo(g,h,i)perylene, phenanthrene, indeno(1,2,3-cd)pyrene, and pyrene. Data is not qualified on the basis of MS/SD recoveries alone.

LCS/LCSD WG991872-2/3 displayed a recovery greater than the upper control limit for p-chloro-m-cresol at 98%. The associated sample result was non-detect; qualification is not necessary.

Pesticides by SW-846 Method 8081B:

The continuing calibration analyzed on 4/11/17 at 11:26 displayed %Ds greater than the control limit with positive biases for the multi-component calibration of toxaphene. The associated sample results were non-detect; qualification is not necessary.

LCS/LCSD WG991778-2 displayed RPDs greater than the control limit for all pesticides. The associated field blank sample results were non-detect; on the basis of professional judgment, qualification is not required.

The continuing calibration analyzed on 4/7/17 at 09:27 displayed %Ds greater than the control limit with positive biases for the multi-component calibration of toxaphene. The associated sample results were non-detect; qualification is not necessary.

Metals by SW-846 Methods 6020A and 6010C:

ICP serial dilution sample SB2E2_EP_SW1 displayed a %D greater than the control limit at 38%. The associated sample result was previously qualified; no further action is necessary.

Preparation blank sample WG992379-1 displayed positive detections for beryllium, chromium, iron and sodium. The associated positive sample results were orders of magnitude greater than the blank amounts; qualification is not necessary.

MS sample L1710475-05 displayed recoveries less than the lower control limit for calcium, chromium, and magnesium. The spiked volume did not originate from the site; qualification is not necessary.

Laboratory duplicate sample WG992379-4 displayed RPDs greater than the control limit for aluminum, calcium, chromium, magnesium, potassium and zinc. The duplicate volume did not originate from the site; qualification is not necessary.

Preparation blank sample WG999647-1 displayed positive detections for manganese and nickel. The associated positive sample results were orders of magnitude greater than the blank amounts; qualification is not necessary.

MS sample WG999647-3 displayed recoveries outside of control limits for every analyte except vanadium. The spiked volume did not originate from the site; qualification is not necessary.

Laboratory duplicate sample WG999647-4 displayed RPDs greater than the control limit for arsenic, cobalt, copper, lead, and manganese. The duplicate volume did not originate from the site; qualification is not necessary.

Preparation blank sample WG993212 displayed a positive detection for manganese at 0.07 mg/kg. The associated sample results were orders of magnitude greater than the blank amount; qualification is not necessary.

MS/SD sample WG993212-3/4 displayed a recovery outside of control limits for chromium. The spiked volume did not originate from the site; qualification is not necessary.

Field blank sample FB01_040517 displayed positive detections for antimony and barium at 0.00051 mg/L and 0.00378 mg/L, respectively. The associated sample results were orders of magnitude greater than the blank amount; qualification is not necessary.

Mercury by SW-846 Methods 7470A and 7471B:

MS/SD sample WG992324-3 displayed a recovery greater than the upper control limit for total mercury at 358%. The sample concentration was greater than 4X the spiked amount; qualification is not necessary.

Laboratory duplicate sample WG992324-3 displayed a RPD greater than the control limit at 40%. The duplicate volume did not originate from the site; qualification is not necessary.

MS/SD sample WG999336-3 displayed a recovery greater than the upper control limit for total mercury at 13,400%. The sample concentration was greater than 4X the spiked amount; qualification is not necessary.

Laboratory duplicate sample WG999336-4 displayed a RPD greater than the control limit at 48%. The duplicate volume did not originate from the site; qualification is not necessary.

MS/SD sample WG992932-3 displayed a recovery greater than the upper control limit for total mercury at 130% and 133%. The spiked volume did not originate from the site; qualification is not necessary.

MS/SD sample WG993365-3 displayed a recovery greater than the upper control limit at 739. The sample concentration was greater than 4X the spiked amount; qualification is not necessary.

Hexavalent Chromium by SW-846 Method 7196A:

Soluble MS sample DS08_1-2 recovered below the lower control limit at 15%. The post-spike recovery was within acceptance criteria; qualification is not necessary.

COMMENTS:

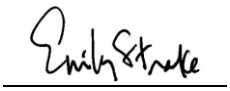
One Field duplicate and parent sample pair was collected and analyzed for VOCs and SVOCs. For results less than 5X the RL, analytes meet the precision criteria if the absolute difference is less than ±2X the RL. For results greater than 5X the RL, analytes meet the precision criteria if the RPD is less than or equal to 50%. The following analytes did not meet the precision criteria:

- EPB_8-9 and DUP01_040317: acenaphthene, naphthalene as SVOC.

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All of the data packages met ASP Category B requirements.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

Signed:



Emily Strake, CEP
Senior Project Chemist/Risk Assessor

APPENDIX K

SITE OBSERVATION REPORTS

LANGAN SITE OBSERVATION REPORT – DAY 24

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Friday 02/17/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	40-45 °F Sunny, 65%hum;
LOCATION:	Brooklyn, NY 11231				5-10 mph NE
BCP SITE No:	C224219			**TIME:**	06:30 to 14:30

EQUIPMENT:	**PRESENT AT SITE:**
320E Deere 304 GR Catapillar 3 x MiniRAE 3000 PID 2 x DustTrak II Aerosol Monitor 8530	Colin Anderson (Langan) Will Ryan (Brookside Environmental)

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan was onsite to observe investigative test pit excavations to locate the suspect underground storage tank (UST) and document soil quality.

Site Activities

- Brookside Environmental encircled the excavation area with hay bales for erosion and sediment controls.
- Brookside Environmental excavated four test pits in the suspected UST area to verify the location of the tank. Test pit locations are shown on the attached Site Plan. The tank location is shown on the attached profile sketch. Findings from each test pit are summarized as follows:
    - Test Pit 1 was excavated to about 6 feet below ground surface (bgs) to the south of the suspected UST location. The UST was not encountered in this test pit excavation. Visual, olfactory, and/or instrumental evidence of petroleum impacts were not observed.
    - Test Pit 2 was excavated to about 6 feet bgs against the southern building foundation, east of the suspected UST location. The UST was not encountered in this test pit excavation. Visual, olfactory, and/or instrumental evidence of petroleum impacts were not observed. The building foundation was observed to extend about 5 feet bgs.
    - Test Pit 3 uncovered the top of a UST that appeared to be about 550 gallons in capacity. The UST is located about 8 feet south of the Green Building's southern wall and about 3 feet bgs. Visual, olfactory, and/or instrumental evidence of petroleum impacts were not observed in soils surrounding the UST. The UST appeared to be empty with photoionization detector (PID) readings up to about 950 parts per million (ppm), measured from inside the UST.
    - Test Pit 4 was excavated to about 8 feet bgs against the building foundation, west of the suspected UST location. Test pit 4 exposed the west end of the UST, where concrete was observed cradling the belly of the tank. Visual, olfactory, and/or instrumental evidence of petroleum impacts were not observed surrounding the UST or below the concrete base. The building foundation was observed to extend about 5 feet bgs.
    - As discussed during the February 15, 2017 pre-construction meeting, UST test pits were backfilled with excavated soil.

Sample Collection

- No samples were collected.

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Colin Anderson **Langan, D.P.C.**

LANGAN **SITE OBSERVATION REPORT – DAY 24**

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Friday 02/17/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	40-45 °F Sunny, 65%hum;
LOCATION:	Brooklyn, NY 11231				5-10 mph NE
BCP SITE No:	C224219			**TIME:**	06:30 to 14:30

Air Monitoring

Langan setup two Community Air Monitoring Program (CAMP) stations to monitor upwind and downwind volatile organic compounds (VOCs) and particulate matter less than 10 µm in diameter (PM_{10}) during intrusive work.

- The downwind particulate monitoring equipment exhibited equipment failures from 8:00am to 9:07am.
- No VOCs or particulates were recorded above action levels during site activities.

Anticipated Activities

- Implementation of the Interim Remedial Measure Work Plan (IRMWP) for the western part of the site.

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Colin Anderson **Langan, D.P.C.**

LANGAN **SITE OBSERVATION REPORT – DAY 24**

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Friday 02/17/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	40-45 °F Sunny, 65%hum;
LOCATION:	Brooklyn, NY 11231				5-10 mph NE
BCP SITE No:	C224219			**TIME:**	06:30 to 14:30

SITE PHOTOGRAPHS:



Photo 1: View of Test Pit One (facing north).



Photo 2: View of Test Pit Two and the buildings foundation (facing northwest)

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Colin Anderson **Langan, D.P.C.**

LANGAN **SITE OBSERVATION REPORT – DAY 24**

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Friday 02/17/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	40-45 °F Sunny, 65%hum;
LOCATION:	Brooklyn, NY 11231				5-10 mph NE
BCP SITE No:	C224219			**TIME:**	06:30 to 14:30



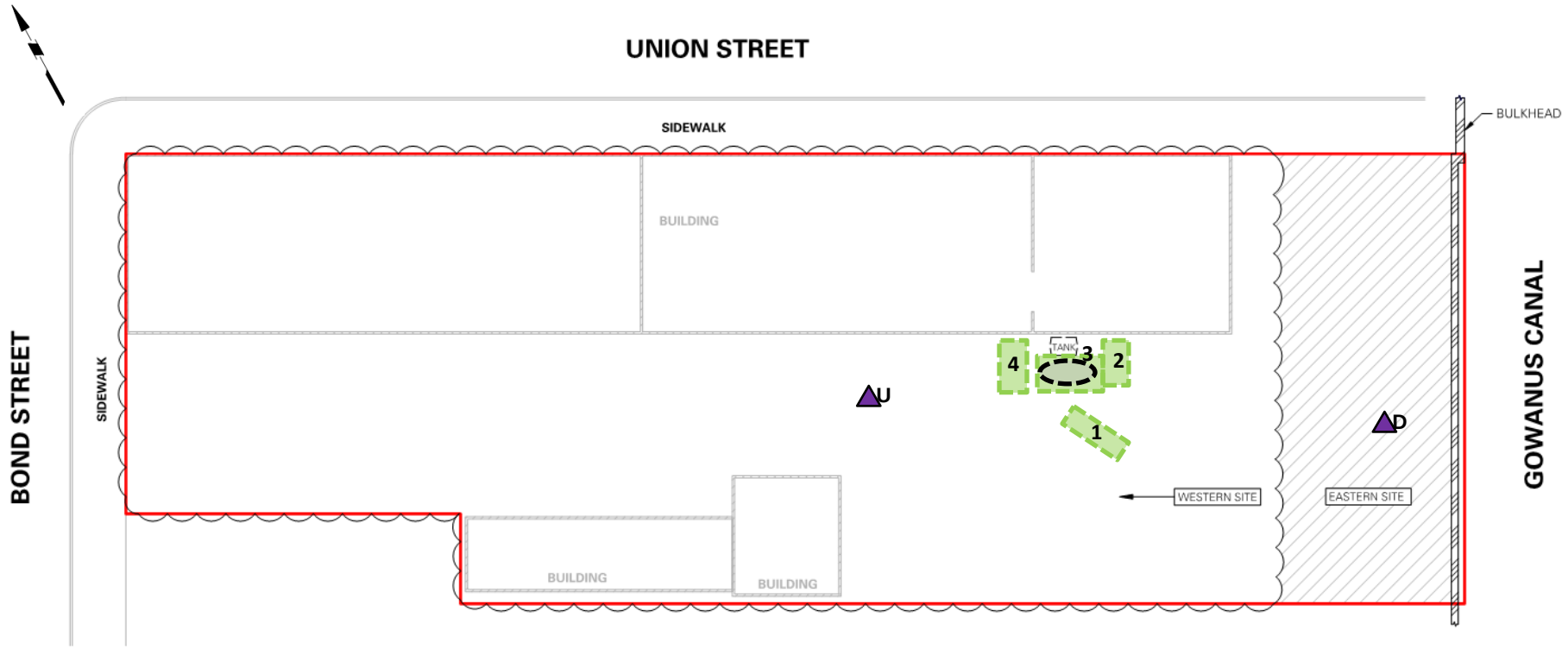
Photo 3: View of Brookside plugging the fill ports with oil pads (facing east).



Photo 4: View of downwind CAMP station (facing east)

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Colin Anderson **Langan, D.P.C.**

Site Observation Report: Air Monitoring Locations and Site Activity Sketch



LEGEND:

APPROXIMATE BROWNFIELD CLEANUP PROGRAM SITE BOUNDARY

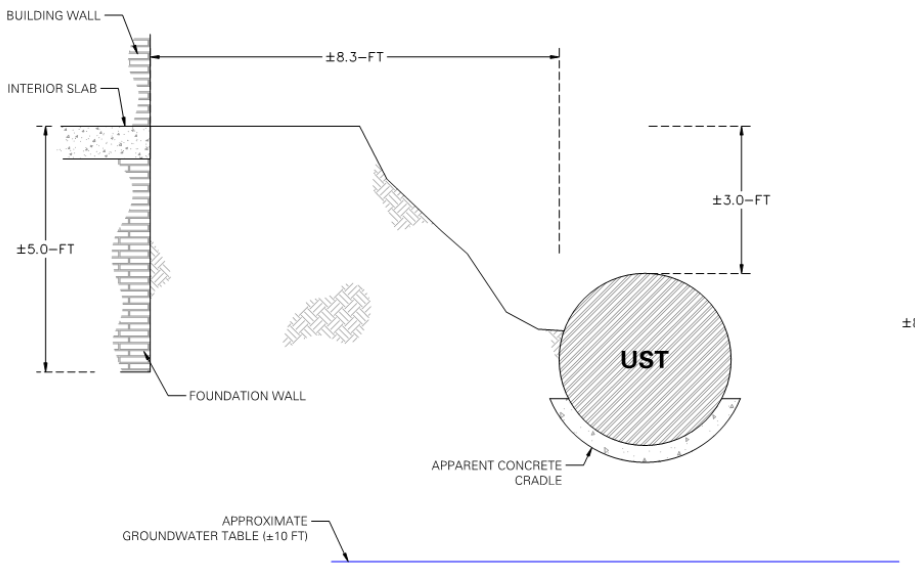
1 Approximate UST Test Pit and number

Approximate location of UST

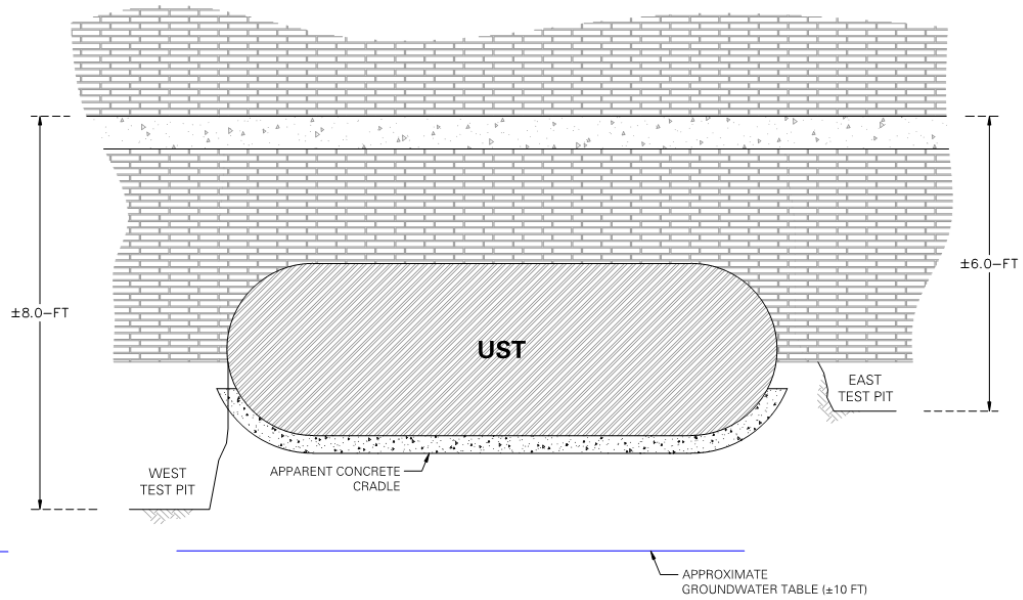
U CAMP air monitoring station (U=upwind; D=downwind)

cc:	M. Raygorodetsky, N. Rice, A. Tashji	**By:**	Colin Anderson **Langan, D.P.C.**

Site Observation Report: Air Monitoring Locations and Site Activity Sketch



NORTH-SOUTH SECTION



WEST-EAST SECTION

NOTES:
1. NOT TO SCALE
2. ALL LOCATIONS ARE APPROXIMATE

cc:	M. Raygorodetsky, N. Rice, A. Tashji	**By:**	Colin Anderson
			Langan, D.P.C.

LANGAN SITE OBSERVATION REPORT – DAY 25

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Monday 02/20/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	45-55 °F Sunny, 65%hum;
LOCATION:	Brooklyn, NY 11231				5-10 mph NW
BCP SITE No:	C224219			**TIME:**	07:00 to 18:45

EQUIPMENT:	**PRESENT AT SITE:**
320E Deere Skid Steer 304 GR Caterpillar Mini Excavator 3 x MiniRAE 3000 PID 2 x DustTrak II Aerosol Monitor 8530 Monsoon® Submersible Pump Horiba U-52 Water Quality Meter	Kyle Twombly (Langan) Will, Ryan (Brookside Environmental)

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan and Brookside Environmental were onsite to implement the remedy for the western part of the site, in accordance with the NYSDEC-approved February 16, 2017 Interim Remedial Measures Work Plan (IRMWP).

Site Activities

- Brookside Environmental excavated a hazardous lead hotspot adjacent to the 'Green Building' and a divider wall in the central portion of the site.
    - Hazardous lead was detected east of a divider wall in soil boring SB2E1 during the remedial investigation. The hazardous lead excavation encompassed SB2E1 and extended about 12 feet east from the divider wall and about 10.5 feet south of the 'Green Building' to about 5 feet below grade surface (bgs). See attached Site Plan.
    - The excavation against the building was sloped at a 1:1 slope away from the building starting about 4 to 5 feet below grade for structural reasons.
    - The base of the lead hotspot excavation contained large pieces of crushed rock, recycled concrete aggregate (RCA), and brick.
    - Langan collected confirmation soil samples (summarized in the Sample Collection section).
- Brookside Environmental covered the hotspot excavation with polyethylene sheeting and placed caution tape around the excavation perimeter.
- The excavated soil was placed into two 30-cubic-yard roll-off containers, staged in the southeastern part of the site for future off-site disposal.
- Langan collected groundwater samples from monitoring wells MW14, MW16, and MW17. A sample was not collected from MW15 because of limited recharge to the well.

Sample Collection

- Langan collected six groundwater samples (filtered and unfiltered) from three monitoring wells: MW14, M16, and MW17. MW15 was not sampled because of poor recharge to the well.
- Langan collected five confirmation soil samples from the hazardous lead excavation.

Collected samples are summarized in tables 1 and 2, below.

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Kyle Twombly **Langan, D.P.C.**

LANGAN **SITE OBSERVATION REPORT – DAY 25**

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Monday 02/20/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	45-55 °F Sunny, 65%hum;
LOCATION:	Brooklyn, NY 11231				5-10 mph NW
BCP SITE No:	C224219			**TIME:**	07:00 to 18:45

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC. (continued):

Table 1 - Groundwater Sampling Summary

Sample Name	Sample Matrix	Well Locations	Sample Type	Analysis
MW14_022017	Groundwater	MW14	Unfiltered	SVOCs
MW14_022017_FF			Field Filtered	SVOCs
MW16_022017		MW16	Unfiltered	SVOCs
MW16_022017_FF			Field Filtered	SVOCs
MW17_022017		MW17	Unfiltered	SVOCs
MW17_022017_FF			Field Filtered	SVOCs

Note: SVOCs = semivolatile organic compound

Table 2 – Confirmation Soil Samples – Hazardous Lead Hotspot

Sample Name	Sample Matrix	Boring Location(s)	Sidewall/Base Sample	Sampling Interval (feet)
SB2E2_EP_SW1	Soil	SB2E2	Sidewall	3.5 to 4
SB2E2_EP_SW2			Sidewall	3.5 to 4
SB2E2_EP_SW3			Sidewall	3.5 to 4
SB2E2_EP_SW4			Sidewall	3.5 to 4
SB2E2_EP_B			Base	5

Air Monitoring

Langan setup two Community Air Monitoring Program (CAMP) stations to monitor upwind and downwind volatile organic compounds (VOCs) and particulate matter less than 10 µm in diameter (PM_{10}) during intrusive work.

- No VOCs or particulates were recorded above action levels during site activities.

Anticipated Activities

- Continue implementation of the IRMWP on the western part of the site.

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Kyle Twombly
			Langan, D.P.C.

LANGAN **SITE OBSERVATION REPORT – DAY 25**

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Monday 02/20/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	45-55 °F Sunny, 65%hum;
LOCATION:	Brooklyn, NY 11231				5-10 mph NW
BCP SITE No:	C224219			**TIME:**	07:00 to 18:45

SITE PHOTOGRAPHS:



Photo 1: View of Brookside Environmental marking the hazardous lead hotspot (facing north).



Photo 2: View of Brookside Environmental excavating the hazardous lead hot spot (facing northeast).

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Kyle Twombly **Langan, D.P.C.**

LANGAN **SITE OBSERVATION REPORT – DAY 25**

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Monday 02/20/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	45-55 °F Sunny, 65%hum;
LOCATION:	Brooklyn, NY 11231				5-10 mph NW
BCP SITE No:	C224219			**TIME:**	07:00 to 18:45



Photo 3: View of groundwater sampling setup at MW17 (facing northeast).



Photo 4: View of downwind air monitoring station (facing southeast).

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Kyle Twombly **Langan, D.P.C.**

LANGAN **SITE OBSERVATION REPORT – DAY 25**

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Monday 02/20/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	45-55 °F Sunny, 65%hum;
LOCATION:	Brooklyn, NY 11231				5-10 mph NW
BCP SITE No:	C224219			**TIME:**	07:00 to 18:45



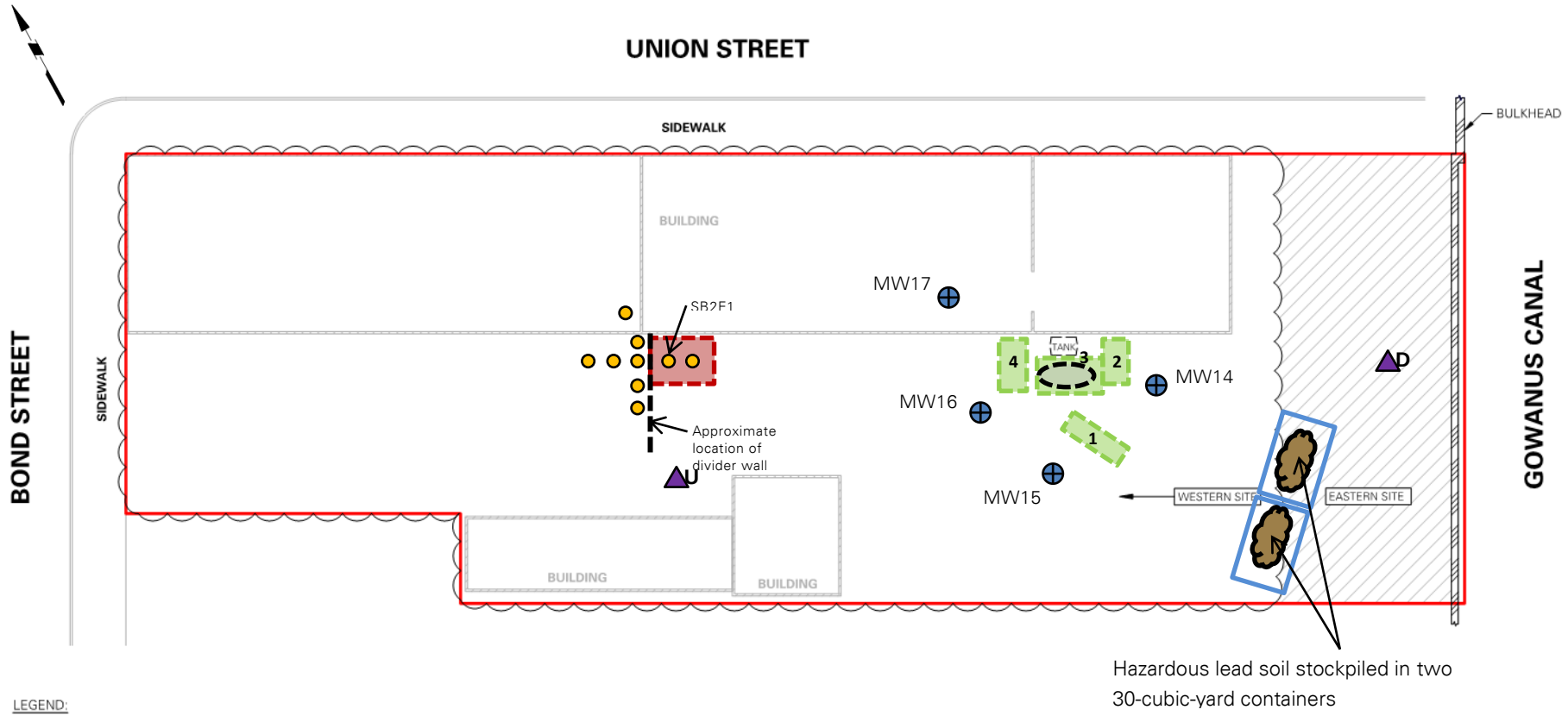
Photo 5: View of soil stockpiled in 30-cubic-yard containers lined with poly sheeting (facing south).



Photo 6: View of the lead hotspot excavation (facing northwest).

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Kyle Twombly **Langan, D.P.C.**

Site Observation Report: Air Monitoring Locations and Site Activity Sketch



LEGEND:

- APPROXIMATE BROWNFIELD CLEANUP PROGRAM SITE BOUNDARY
- 1 — Approximate UST Test Pit
- Approximate location of UST
- Approximate location of hazardous lead excavation
- Soil Stockpile
- 30 cubic-yard roll-off container
- Approximate location of Monitoring Well sampled
- Approximate location of remedial investigation lead delineation borings
- U — CAMP air monitoring station (U=upwind; D=downwind)

cc:	M. Raygorodetsky, N. Rice, A. Tashji	**By:**	Kyle Twombly **Langan, D.P.C.**

LANGAN SITE OBSERVATION REPORT – DAY 26

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Monday 02/23/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	40-63 °F Sunny, 75%hum;
LOCATION:	Brooklyn, NY 11231				5-10 mph NW
BCP SITE No:	C224219			**TIME:**	07:00 to 11:00

EQUIPMENT:	**PRESENT AT SITE:**
3 x MiniRAE 3000 PID 2 x DustTrak II Aerosol Monitor 8530	Colin Anderson (Langan) Will, Ryan (Brookside Environmental)

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan and Brookside Environmental were onsite to implement the remedy for the western part of the site, in accordance with the NYSDEC-approved February 16, 2017 Interim Remedial Measures Work Plan (IRMWP).

Site Activities

- Two roll-off containers of previously excavated hazardous lead soil were removed from the site. Material transport was consistent with hazardous material handling protocols and tracked via Uniform Hazardous Waste manifests.
    - Roll-off containers were covered with tie-down covers and secured before transport.

Sample Collection

- No samples were collected.

Material Tracking

- Two 30-cubic-yard roll-off containers of characteristic hazardous lead soil were transported for off-site disposal at Clean Earth of North Jersey in Kearny, NJ.
    - Hazardous Waste Manifest Numbers: 000097383 and 00097384.

Air Monitoring

Langan setup two Community Air Monitoring Program (CAMP) stations to monitor upwind and downwind volatile organic compounds (VOCs) and particulate matter less than 10 µm in diameter (PM10) during intrusive work.

- No VOCs or particulates were recorded above action levels during site activities.
- The upwind particulate monitoring device did not data log from 9:01 AM to 10:44 AM because of an equipment malfunction. During this time the downwind particulate concentration will be compared to the last-logged 15-minute-average upwind particulate concentration.

Anticipated Activities

- Pending confirmation soil sample analysis, the excavation will be backfilled with recycled concrete aggregate (RCA) and capped with concrete.
- Permitting to remove the underground storage tank (UST) was filed with the New York City Department of Buildings. Upon approval, Brookside will remobilize to clean and remove the UST and any associated petroleum impacts, if encountered.

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Colin Anderson **Langan, D.P.C.**

LANGAN **SITE OBSERVATION REPORT – DAY 26**

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Monday 02/23/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	40-63 °F Sunny, 75%hum;
LOCATION:	Brooklyn, NY 11231				5-10 mph NW
BCP SITE No:	C224219			**TIME:**	07:00 to 11:00

SITE PHOTOGRAPHS:



Photo 1: View of the waste transport vehicle mobilizing to transport containerized hazardous lead waste. The downwind CAMP station was placed adjacent to the activity (facing north).



Photo 2: View of the roll-off container being loaded for transport to Clean Earth of North Jersey for disposal (facing east).

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Colin Anderson **Langan, D.P.C.**

LANGAN **SITE OBSERVATION REPORT – DAY 26**

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Monday 02/23/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	40-63 °F Sunny, 75%hum;
LOCATION:	Brooklyn, NY 11231				5-10 mph NW
BCP SITE No:	C224219			**TIME:**	07:00 to 11:00



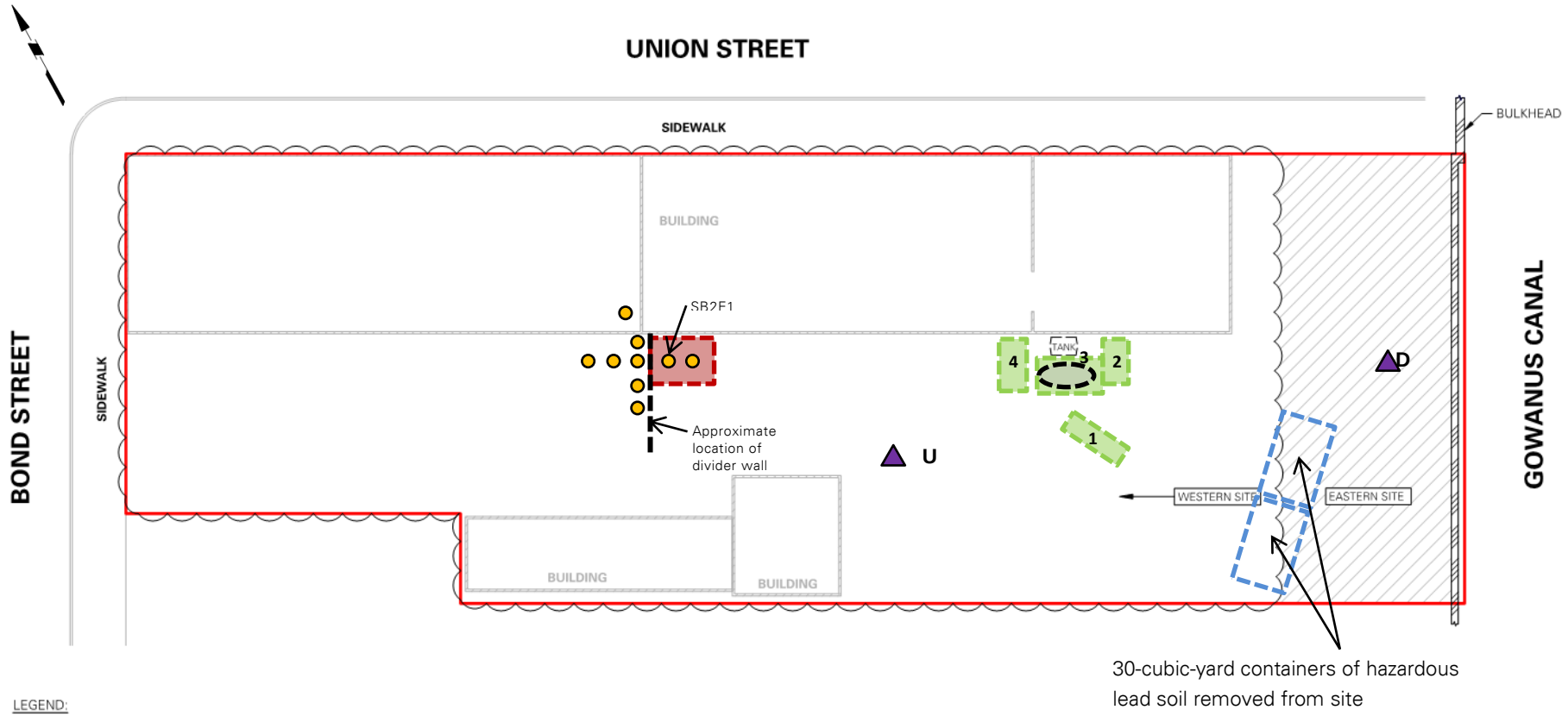
Photo 3: View of the upwind CAMP station and perimeter hay bales (facing southwest).



Photo 4: View of hazardous lead container loaded for transport (facing east).

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Colin Anderson **Langan, D.P.C.**

Site Observation Report: Air Monitoring Locations and Site Activity Sketch



LEGEND:

- APPROXIMATE BROWNFIELD CLEANUP PROGRAM SITE BOUNDARY
- 1 — Approximate UST Test Pit (2/17/2017)
- Approximate location of UST
- Approximate location of hazardous lead excavation (2/20/2017)
- Soil Stockpile
- 30 cubic-yard roll-off container
- Approximate location of remedial investigation lead delineation borings
- U — CAMP air monitoring station (U=upwind; D=downwind)

cc:	M. Raygorodetsky, N. Rice, A. Tashji	**By:**	Colin Anderson **Langan, D.P.C.**

LANGAN SITE OBSERVATION REPORT – DAY 27

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Thursday 03/02/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	40-63 °F Sunny, 75%hum;
LOCATION:	Brooklyn, NY 11231				20-30 mph NW
BCP SITE No:	C224219			**TIME:**	07:00 to 11:00

EQUIPMENT:	**PRESENT AT SITE:**
CAT 326B Skid Steer Mikasa Multiquip Plate Compactor Honda GX390 Concrete Saw	Brian Liang (Langan) Mike, Will, Ryan (Brookside Environmental)

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan and Brookside Environmental were onsite to implement the remedy for the western part of the site, in accordance with the NYSDEC-approved February 16, 2017 Interim Remedial Measures Work Plan (IRMWP).

Site Activities

- Brookside used a concrete saw to remove an additional 1-linear-foot of concrete cap along the south side of the excavation to form a clean edge with dimensions of 12 by 12 feet. Excavated concrete was temporarily placed along the southeast side of the Green Building for future disposal.
- Brookside Environmental backfilled the former lead hotspot excavation with recycled concrete aggregate (RCA) to within about 3 inches of the surface.
- About 3 cubic yards of unused RCA was temporarily placed along the southeast side of the Green Building.

Sample Collection

- No samples were collected.

Material Tracking

- 20 cubic yards of RCA was delivered to site from Pebble Lane in Maspeth, NY.
    - Ticket number: 25108273

Air Monitoring

No Community Air Monitoring Program (CAMP) stations were set up because there were no soil handling activities.

- Water was used during concrete cutting with the Honda GX390 to prevent generating airborne dust. Dust was not observed leaving the site during site work.

Anticipated Activities

- A 3-inch concrete cap will be placed on top of the backfill RCA in the former lead hotspot excavation area.
- Upon receiving appropriate Department of Buildings (DOB) permitting to remove the UST, Brookside will return to clean and remove the tank and any associated petroleum impacts.

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Brian Liang **Langan, D.P.C.**

LANGAN **SITE OBSERVATION REPORT – DAY 27**

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Thursday 03/02/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	40-63 °F Sunny, 75%hum;
LOCATION:	Brooklyn, NY 11231				20-30 mph NW
BCP SITE No:	C224219			**TIME:**	07:00 to 11:00

SITE PHOTOGRAPHS:



Photo 1: View of the excavation being backfilled with RCA using the CAT 236B Skid Steer (facing northeast).



Photo 2: View of the excavation filled to within 3 feet of the surface and being compacted using the Mikasa Multiquip plate compactor (facing northwest).

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Brian Liang **Langan, D.P.C.**

LANGAN **SITE OBSERVATION REPORT – DAY 27**

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Thursday 03/02/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	40-63 °F Sunny, 75%hum;
LOCATION:	Brooklyn, NY 11231				20-30 mph NW
BCP SITE No:	C224219			**TIME:**	07:00 to 11:00



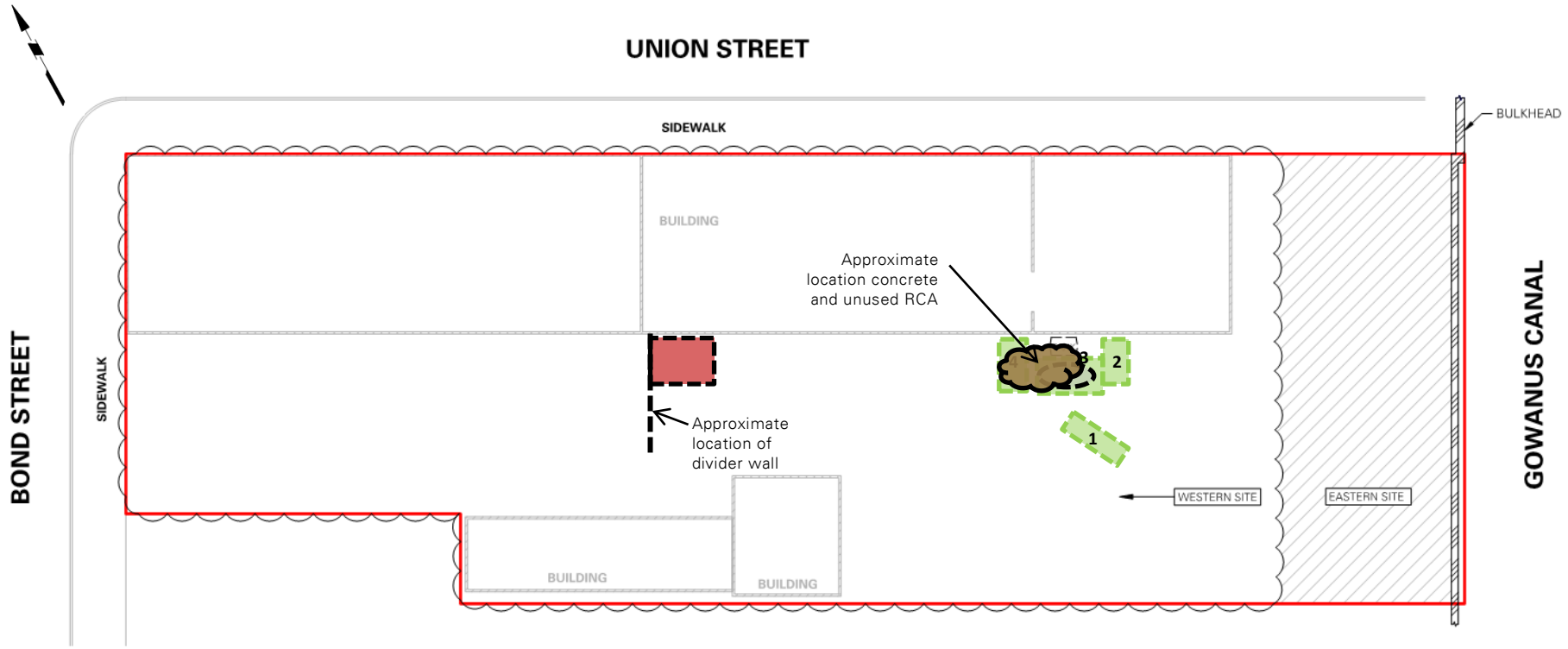
Photo 3: View of backfilled lead hotspot excavation (facing northwest).



Photo 4: View of concrete and unused RCA along the southeast side of the Green Building (facing northeast).

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Brian Liang **Langan, D.P.C.**

Site Observation Report: Air Monitoring Locations and Site Activity Sketch



LEGEND:

APPROXIMATE BROWNFIELD CLEANUP PROGRAM SITE BOUNDARY

1 Approximate UST Test Pit (2/17/2017)

Approximate location of UST

Approximate location of former hazardous lead hotspot backfilled with RCA

Soil Stockpile

Approximate location of remedial investigation lead delineation borings

U CAMP air monitoring station (U=upwind; D=downwind)

cc:	M. Raygorodetsky, N. Rice, A. Tashji	**By:**	Brian Liang
			Langan, D.P.C.

LANGAN SITE OBSERVATION REPORT – DAY 28

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Thursday 03/09/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	40-60 °F Sunny, 75%hum;
LOCATION:	Brooklyn, NY 11231				0-10 mph NW
BCP SITE No:	C224219			**TIME:**	13:45 to 15:00

EQUIPMENT:	**PRESENT AT SITE:**
TL48 - Excavator Photoionization detector (PID)	Colin Anderson (Langan) Crew (Atlas Builders)

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan was onsite to document implementation of the remedy for the northern part of the site, in accordance with the NYSDEC-approved February 16, 2017 Interim Remedial Measures Work Plan (IRMWP).

Site Activities

- Atlas used a hydraulic hammer to remove a section of 6-inch-thick concrete slab inside the building to expose an interior building footing for structural considerations related to site development.
- Atlas hand-excavated a test pit (TP-5), measuring about 6 feet long, 4 feet wide and 4 feet deep.
    - Excavated material was temporarily stockpiled on polyethylene sheeting adjacent to the test pit (one north and one south stockpile)
    - Stockpiles were covered with polyethylene sheeting at the end of the day.
    - Excavated material did not exhibit odors or volatile organic compound (VOC) concentrations above background.
- Excavated concrete was placed in a roll-off container for off-site disposal as construction and demolition (C&D) waste.

Sample Collection

- No samples were collected.

Material Tracking

- No material was imported or exported from the site.

Air Monitoring

- No Community Air Monitoring Program (CAMP) stations were set up because soil intrusive work was conducted indoors. VOCs and dust were monitored by photoionization detector (PID) and visually, respectively.

Anticipated Activities

- TP-5 will be backfilled using the stockpiled excavation material after evaluating the interior building.
- Test pits will be advanced to locate the suspected UST.

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Colin Anderson **Langan, D.P.C.**

SITE PHOTOGRAPHS:



Photo 1: View of hand-excavation and stockpiled material (facing west).



Photo 2: View of the excavation area against an interior building wall (facing southwest).

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Colin Anderson **Langan, D.P.C.**

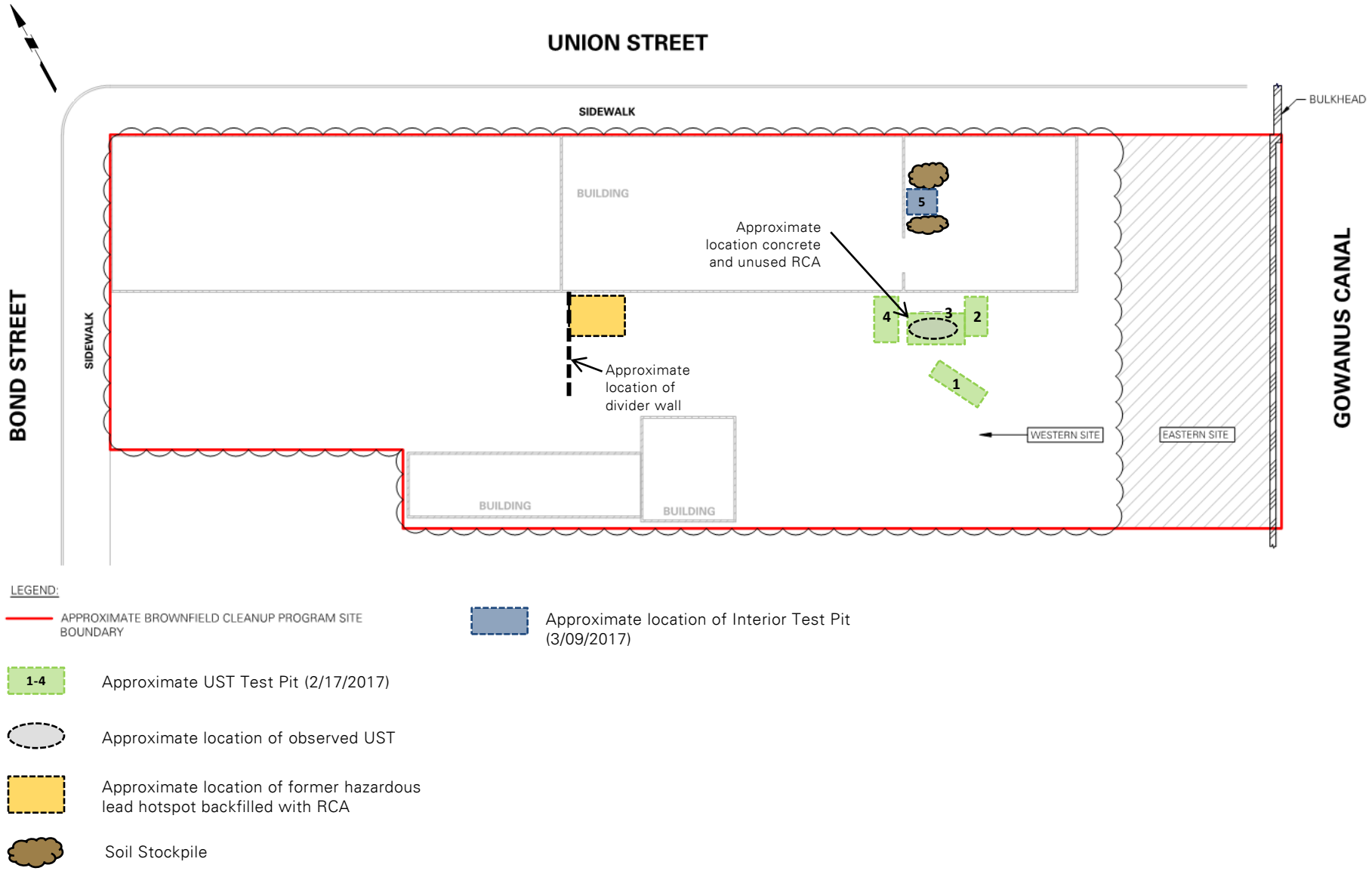


Photo 3: View of the northern stockpile covered with polyethylene sheeting and secured (facing northwest).



Photo 4: View of the southern stockpile covered with polyethylene sheeting and secured (facing west).

Site Observation Report: Air Monitoring Locations and Site Activity Sketch



cc:	M. Raygorodetsky, N. Rice, A. Tashji	**By:**	Colin Anderson **Langan, D.P.C.**

LANGAN SITE OBSERVATION REPORT – DAY 29

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Thursday 03/30/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	45-52 °F Sunny, 75%hum;
LOCATION:	Brooklyn, NY 11231				0-5 mph S
BCP SITE No:	C224219			**TIME:**	08:15 to 18:30

EQUIPMENT:	**PRESENT AT SITE:**
TL48 - Excavator Photoionization detector (PID)	Kyle Twombly (Langan) Bricken Vukaj (Atlas Builders)

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan was onsite to document implementation of the remedy for the northern part of the site, in accordance with the NYSDEC-approved February 16, 2017 Interim Remedial Measures Work Plan (IRMWP).

Site Activities

- Atlas removed 2-inch-thick sections of the concrete cover in the site exterior using a gasoline-powered demo saw along the southern end of the building for installation of footings for an awning structure.
- Nine footings (about 2-feet-long x 2-feet-wide x 2-feet-deep were excavated using hand tools.
    - Excavated material was stockpiled on polyethylene sheeting near the southeast corner of the site and covered at the end of the work shift.
    - Excavated material did not exhibit odors or volatile organic compound (VOC) concentrations above background.
- Concrete was placed in a roll-off container for off-site disposal as construction and demolition (C&D) waste.

Sample Collection

- Samples were not collected.

Material Tracking

- Material was not imported or exported from the site.

Air Monitoring

- Langan setup two Community Air Monitoring Program (CAMP) stations to monitor upwind and downwind volatile organic compounds (VOCs) and particulate matter less than 10 µm in diameter (PM_{10}) during intrusive work.
    - VOCs and particulates were not recorded above action levels.
    - The upwind station was experiencing power issues between 11:58 AM and 1:20 PM.
- VOCs or particulates were not recorded above action levels during site activities.

Anticipated Activities

- Continued excavation and construction of the awning footings
- Excavation, cleaning, and removal of the underground storage tank (UST)

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Kyle Twombly **Langan, D.P.C.**

SITE PHOTOGRAPHS:



Photo 1: View of Atlas constructing a stockpile-containment area (facing northeast).



Photo 2: Saw-cutting sections of the concrete site cover for excavation and installation of awning footings (facing northeast).

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Kyle Twombly **Langan, D.P.C.**

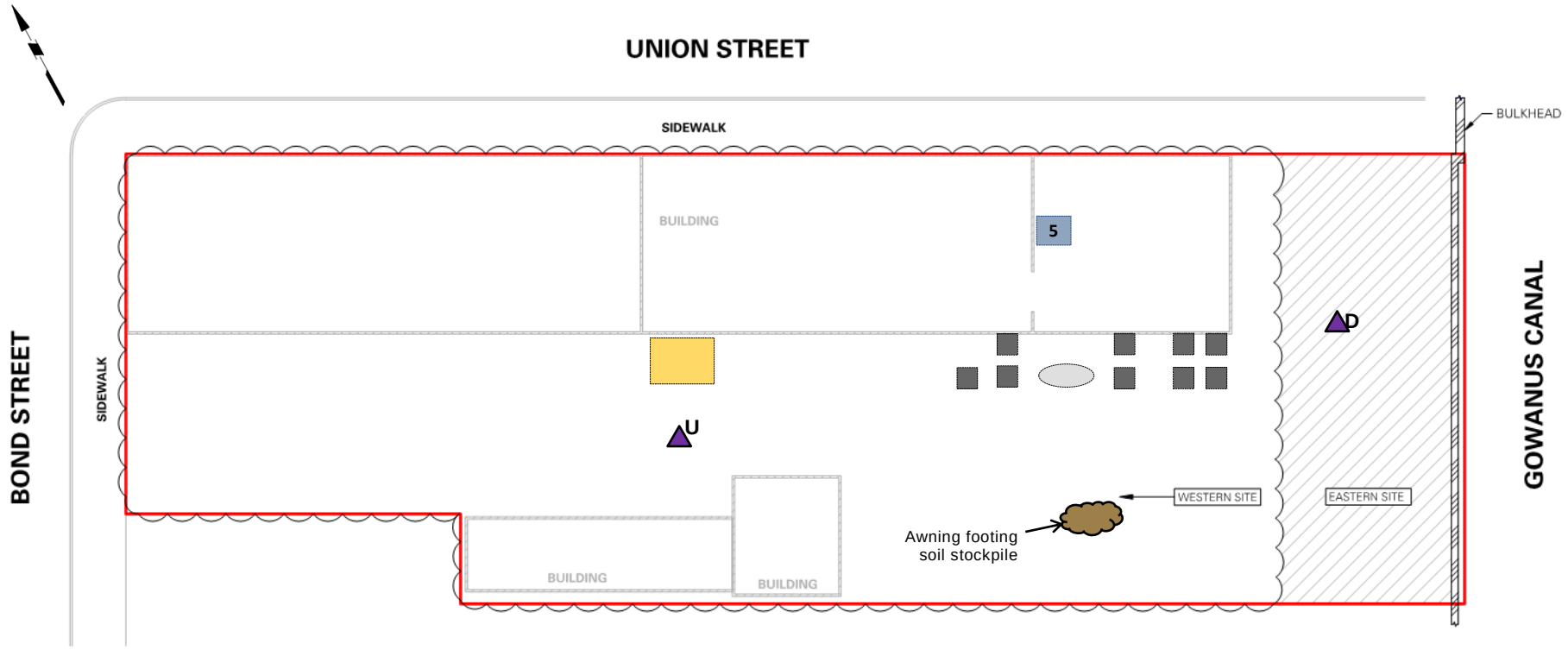


Photo 3: Hand-excavation for installation of awning footings (facing northwest).



Photo 4: View of Atlas stockpiling excavated material from the footings excavations (facing southeast).

Site Observation Report: Air Monitoring Locations and Site Activity Sketch



LEGEND:

- APPROXIMATE BROWNFIELD CLEANUP PROGRAM SITE BOUNDARY
- 5 — Approximate location of Interior Test Pit (3/09/2017)
- Approximate location of observed UST
- Approximate location of awning footings
- Approximate location of former hazardous lead hotspot backfilled with RCA
- U — CAMP air monitoring station (U=upwind; D=downwind)
- Soil Stockpile

cc:	M. Raygorodetsky, N. Rice, A. Tashji	**By:**	Kyle Twombly **Langan, D.P.C.**

LANGAN SITE OBSERVATION REPORT – DAY 30

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Monday 04/03/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	50-60 °F Partly Cloudy,
LOCATION:	Brooklyn, NY 11231				0-5 mph SW
BCP SITE No:	C224219			**TIME:**	08:15 to 19:15

EQUIPMENT:	**PRESENT AT SITE:**
TL48 - Excavator Photoionization detector (PID)	Kyle Twombly (Langan) Bricken Vukaj (Atlas Builders) Mike (Brookside Environmental)

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan was onsite to document implementation of the remedy for the northern part of the site, in accordance with the NYSDEC-approved February 16, 2017 Interim Remedial Measures Work Plan (IRMWP).

Site Activities

- Atlas continued installing 2-foot-long x 2-foot-wide x 2-foot-deep excavations along the southern end of the building for installation of awning footings.
    - Excavated material was placed in the contained stockpile area, on top of and covered with polyethylene sheeting. Footing excavation material did not exhibit odors or volatile organic compounds (VOCs) concentrations above background.
    - Excavated concrete was placed in a roll-off which contains construction debris.
- Brookside Environmental mobilized equipment and materials to remove the underground storage tank (UST). A 15-foot-long x 15-foot-wide x 11-foot-deep area was excavated to expose, clean, and remove the UST. Piping and other UST accessories were not observed.
    - The UST was observed to be resting on top of a concrete base with groundwater observed directly below the concrete. Soil excavated from around and below the UST did not exhibit petroleum-like odors or VOCs concentrations above background and was stockpiled and covered for off-site disposal.
    - The UST did not contain liquids. A dry, reddish-brown material was observed accumulated in the UST, containing odors and volatile organic compound (VOC) concentrations above 1,000 parts per million (ppm).
    - The UST material was collected into a 55-gallon Department of Transportation (DOT)-approved steel drum for off-site disposal. One sample was collected of the UST contents.
    - After cleaning the UST and rendering it inert, Brookside loaded the UST onto a truck and removed it from the site for scrap metal disposal.

Sample Collection

- Six confirmation soil samples were collected within the UST excavation and analyzed for CP-51 list of VOCs and SVOCs. One sample was collected from each of the four excavation sidewalls and two samples were collected from the excavation base (one from above and one from below the groundwater table).

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Kyle Twombly **Langan, D.P.C.**

- The table below summarizes the confirmation soil samples collected, their location, and approximate depth.

Confirmation Soil Samples – Underground Storage Tank		
Sample Name	**Sidewall/Base Sample**	**Sampling Interval (feet bgs)**
EPN_8-9	Sidewall	8 to 9
EPE_8-9	Sidewall	8 to 9
EPW_8-9	Sidewall	8 to 9
EPS_8-9	Sidewall	8 to 9
EPB_8-9	Base	8 to 9
EPB_9-10	Base	9 to 10

feet bgs = feet below grade surface

Material Tracking

- Material was not imported to or exported from the site.

Air Monitoring

- Langan setup two Community Air Monitoring Program (CAMP) stations to monitor upwind and downwind volatile organic compounds (VOCs) and particulate matter less than 10 µm in diameter (PM_{10}) during intrusive work.
  - Particulate concentrations were recorded above action levels from 10:28 AM to 10:39 AM and 1:58 PM to 2:04 PM while saw cutting the concrete slab nearby the downwind air monitoring station. Atlas applied water for dust suppression until particulate levels returned to normal.
  - VOC concentrations were recorded above action levels from 10:21 AM to 10:38 AM, 1:31 PM to 1:46 PM, and 4:53 PM to 5:07 PM while containerizing the accumulated UST material into the 55-gallon drum. VOC concentrations returned to normal after the drum was covered.

Anticipated Activities

- Continued excavation of awning footings.
- The stockpiled UST excavation material will be transported for off-site disposal.

SITE PHOTOGRAPHS:



Photo 1: Excavating soil to expose, clean, and remove the UST (facing west).



Photo 2: Langan screening soil from around the UST with a PID, showing no detectable VOCs.



Photo 3: Excavation sequencing to expose the UST without damaging the tank structure (facing east).



Photo 4: Brookside using a measuring device to determine whether product is present within the tank (facing southwest).



Photo 5: Brookside removing accumulated material and cleaning the UST interior (facing west).



Photo 6: View of accumulated material from inside the UST containerized within a 55-gallon drum.

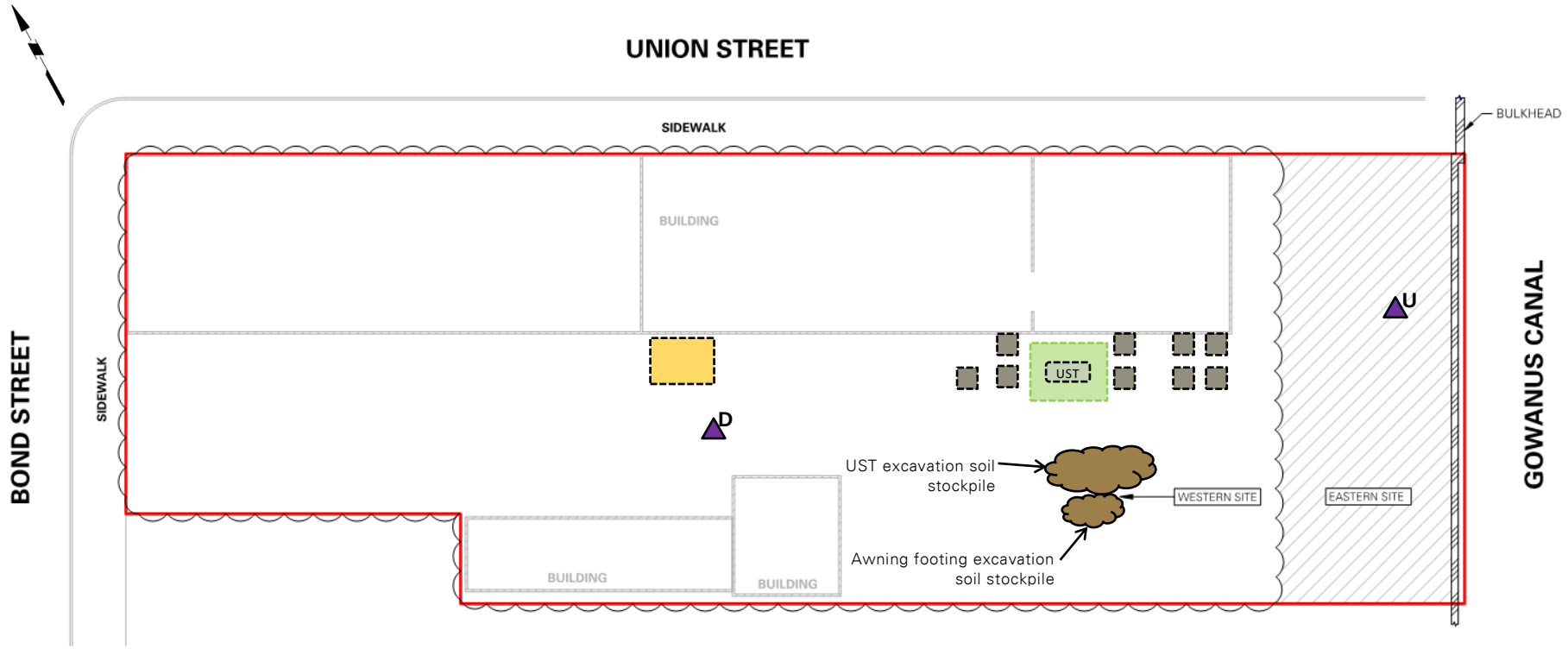


Photo 7: Loading the UST carcass onto a truck for removal from the site and disposal as scrap metal (facing north).



Photo 8: View of an excavated awning footing.

Site Observation Report: Air Monitoring Locations and Site Activity Sketch



LEGEND:

- APPROXIMATE BROWNFIELD CLEANUP PROGRAM SITE BOUNDARY
- Approximate UST excavation area
- UST — Approximate location of observed UST
- Approximate location of former hazardous lead hotspot backfilled with RCA (3/2/2017)
- Soil Stockpile
- Approximate location of awning footings
- U — CAMP air monitoring station (U=upwind; D=downwind)

cc:	M. Raygorodetsky, N. Rice, A. Tashji	**By:**	Kyle Twombly **Langan, D.P.C.**

LANGAN SITE OBSERVATION REPORT – DAY 31

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Tuesday 04/04/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	45-55 °F Rain, 100%hum;
LOCATION:	Brooklyn, NY 11231				5-10 mph SW
BCP SITE No:	C224219			**TIME:**	07:00 to 12:45

EQUIPMENT:	**PRESENT AT SITE:**
CAT 304CR - Excavator Photoionization detector (PID)	Kyle Twombly (Langan) Bricken Vukaj (Atlas Builders) Mike (Brookside Environmental)

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan was onsite to document implementation of the remedy for the northern part of the site, in accordance with the NYSDEC-approved February 16, 2017 Interim Remedial Measures Work Plan (IRMWP).

Site Activities

- Brookside loaded stockpiled soil from the underground storage tank (UST) excavation into dump trucks for transport and disposal at Clean Earth Carteret in Carteret, NJ.

Sample Collection

- Samples were not collected.

Material Tracking

- Material was not imported to the site.
- Two truckloads of stockpiled soil from the UST excavation were transported to Clean Earth Carteret for disposal.

Air Monitoring

- Community Air Monitoring Program (CAMP) stations were not set up because of persistent rain.

Anticipated Activities

- The UST excavation will be surveyed and backfilled, pending confirmation soil sample results.
- Atlas will pour concrete for the awning footing.

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Kyle Twombly **Langan, D.P.C.**

SITE PHOTOGRAPHS:



Photo 1: Removing stockpile cover prior to loading dump trucks (facing southwest).



Photo 2: Dump trucks being loaded with stockpiled soil from the UST excavation for off-site disposal at Clean Earth Carteret (facing southeast).

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Kyle Twombly **Langan, D.P.C.**



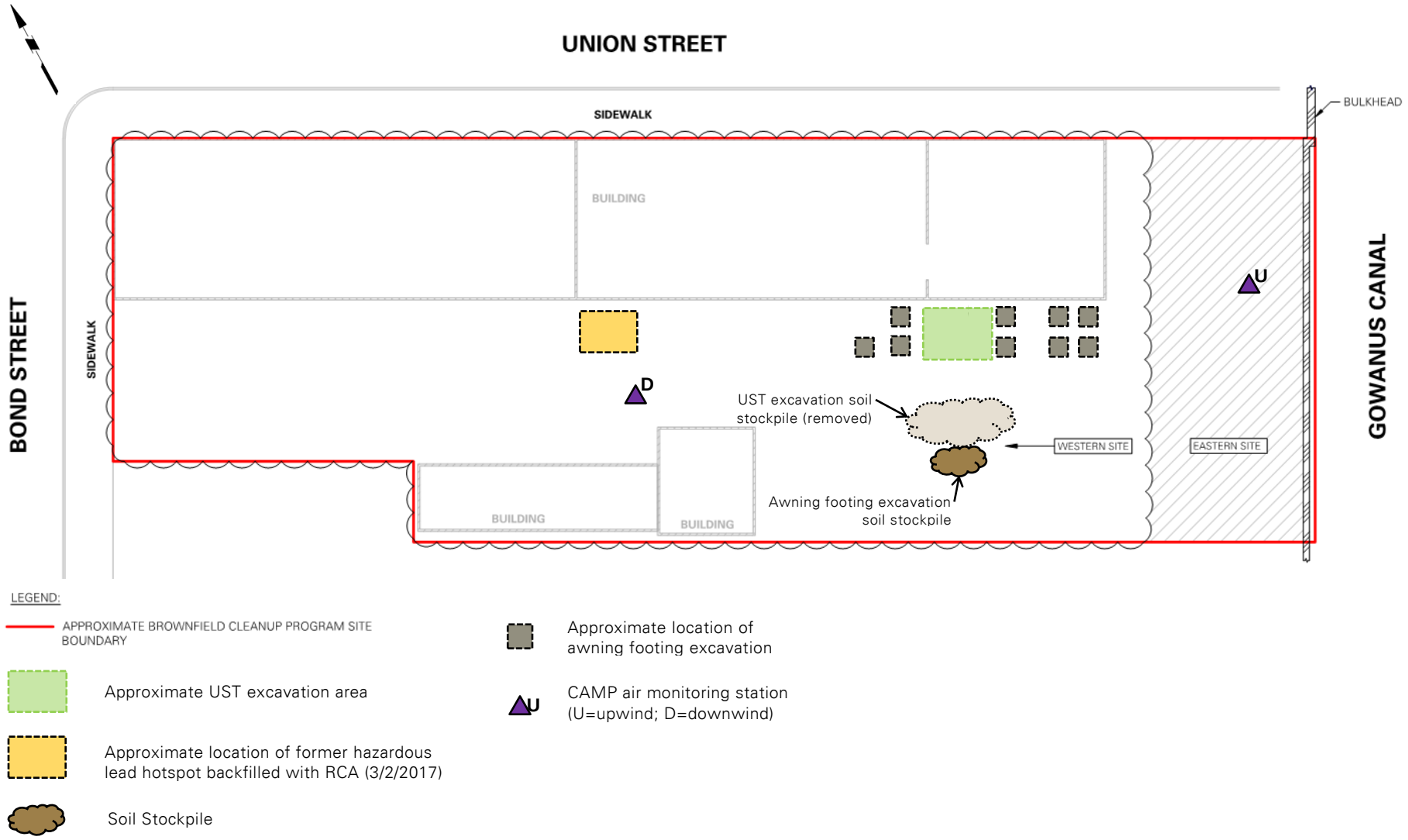
Photo 3: General view of the UST excavation, pending confirmation soil sample results for backfill (facing south).



Photo 4: Removal of UST excavation soil stockpile mostly completed (facing east).

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Kyle Twombly **Langan, D.P.C.**

Site Observation Report: Air Monitoring Locations and Site Activity Sketch



cc:	M. Raygorodetsky, N. Rice, A. Tashji	**By:**	Kyle Twombly **Langan, D.P.C.**

LANGAN SITE OBSERVATION REPORT – DAY 32

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Wednesday 04/05/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	47-55 °F Cloudy, 50%hum;
LOCATION:	Brooklyn, NY 11231				0-5 mph SW
BCP SITE No:	C224219			**TIME:**	07:00 to 16:15

EQUIPMENT:	**PRESENT AT SITE:**
CAT 304CR - Excavator Photoionization detector (PID)	Kyle Twombly (Langan) Bricken Vukaj (Atlas Builders)

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan was onsite to document implementation of the remedy for the northern part of the site, in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved February 16, 2017 Interim Remedial Measures Work Plan (IRMWP).

Site Activities

- Atlas continued constructing footings for the proposed awning structure.
    - Two documentation soil samples were collected from the excavation base prior to pouring concrete.
- Langan surveying team was onsite to survey the location and elevations of the underground storage tank (UST) excavation.

Sample Collection

- Two documentation soil samples were collected from the base of awning footing excavations. Samples names, location and approximate depth are summarized in the below table.

Documentation Soil Samples			
Sample Name	**Sample Matrix**	**Sample Location(s)**	**Sampling Depth (feet)**
DS01_1-2	Soil	Awning Footing Excavation	1 to 2
DS02_1-2	Soil	Awning Footing Excavation	1 to 2

Material Tracking

- Material was not imported to or exported from the site.

Air Monitoring

- Community Air Monitoring Program (CAMP) stations were not set up because work did not consist of soil intrusive activities.

Anticipated Activities

- The UST excavation will be backfilled, pending confirmation soil sample results.
- Documentation soil samples to be collected from proposed planter areas.

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Kyle Twombly **Langan, D.P.C.**

SITE PHOTOGRAPHS:

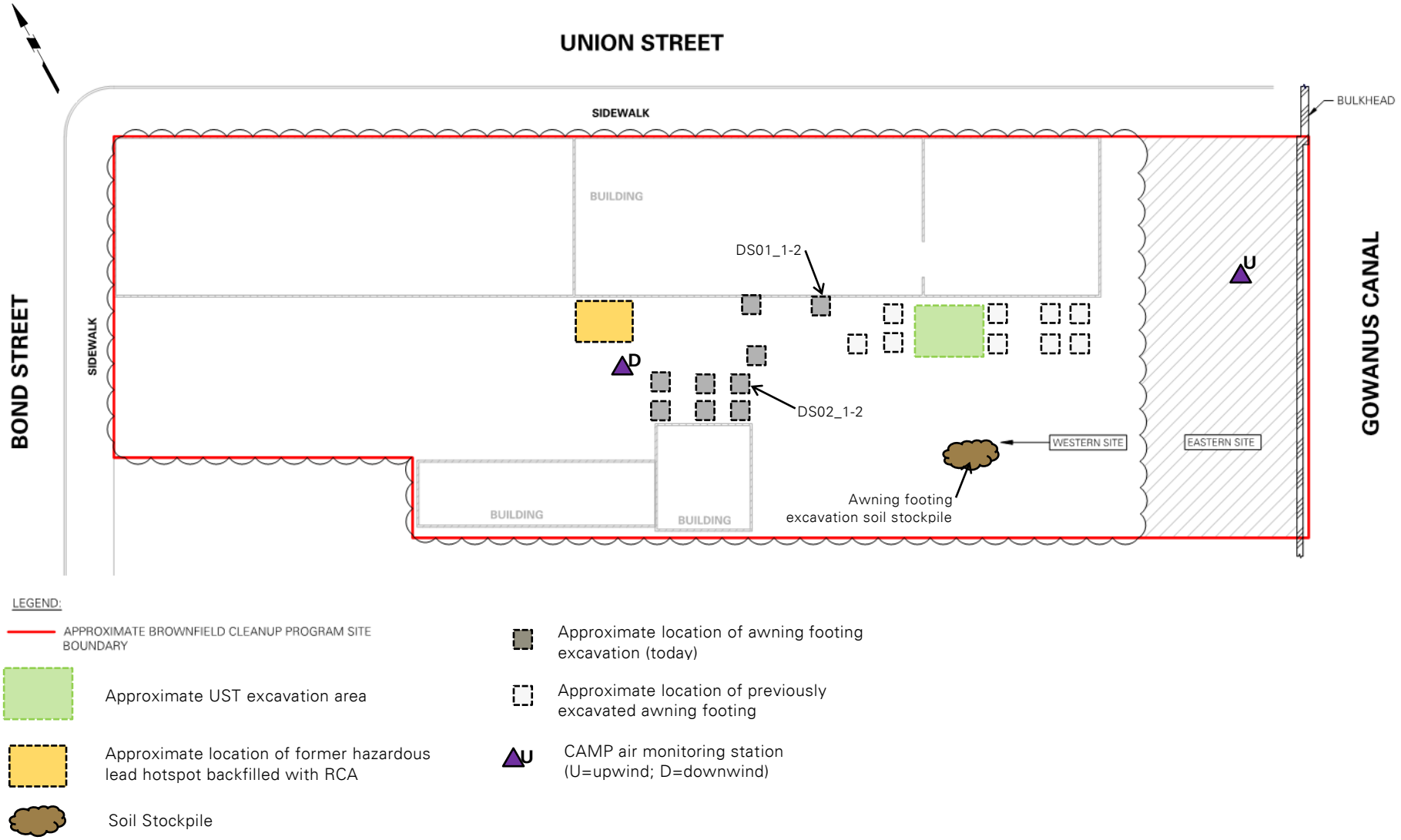


Photo 1: The UST excavation location and elevations being surveyed by a Langan surveying team (facing east).



Photo 2: Documentation soil sample DS01_1-2 collected from an awning footing.

Site Observation Report: Air Monitoring Locations and Site Activity Sketch



cc:	M. Raygorodetsky, N. Rice, A. Tashji	**By:**	Kyle Twombly **Langan, D.P.C.**

LANGAN SITE OBSERVATION REPORT – DAY 33

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Wednesday 04/06/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	47-55 °F Cloudy/Rain, 50%hum; 0-5 mph SW
LOCATION:	Brooklyn, NY 11231				
BCP SITE No:	C224219			**TIME:**	07:00 to 16:15

EQUIPMENT:	**PRESENT AT SITE:**
CAT 304CR – Excavator Deere - Bobcat Photoionization detector (PID)	Kyle Twombly (Langan) Bricken Vukaj (Atlas Builders)

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan was onsite to document implementation of the remedy for the northern part of the site, in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved February 16, 2017 Interim Remedial Measures Work Plan (IRMWP).

Site Activities

- Brookside Environmental backfilled the underground storage tank (UST) excavation with recycled concrete aggregate (RCA), imported from NYC Concrete Materials. Backfill was approved by NYSDEC via email on February 16, 2017.
- Brookside Environmental excavated an about 12-foot-long by 12-foot-wide by 2-feet-deep area in the northwest portion of the site to remove an existing planter bed.
    - A 5-foot by 5-foot concrete pad located in the center of the excavation will not be removed.
- Langan collected documentation soil samples from the base of the planter bed excavation.

Sample Collection

- One documentation soil sample was collected from the base of the planter bed excavation. The sample name, location, and approximate depth is summarized in the below table.

Documentation Soil Samples			
Sample Name	**Sample Matrix**	**Sample Location(s)**	**Sampling Interval (feet)**
DS03_1-2	Soil	Planter Area	1 to 2

Material Tracking

- Three truckloads of RCA were imported from NYC Concrete Materials to backfill the UST excavation.
- Material was not exported from the site.

Air Monitoring

- Community Air Monitoring Program (CAMP) stations were not set up due to inclement weather.

Anticipated Activities

- Brookside will excavate planter areas in the northwest and southwest portions of the site.
- Documentation samples to be collected from footing areas and planter areas.

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Kyle Twombly **Langan, D.P.C.**

SITE PHOTOGRAPHS:



Photo 1: View of Brookside backfilling the UST excavation with RCA (facing southeast).



Photo 2: Close up view of imported RCA, used to backfill the UST excavation.

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Kyle Twombly **Langan, D.P.C.**



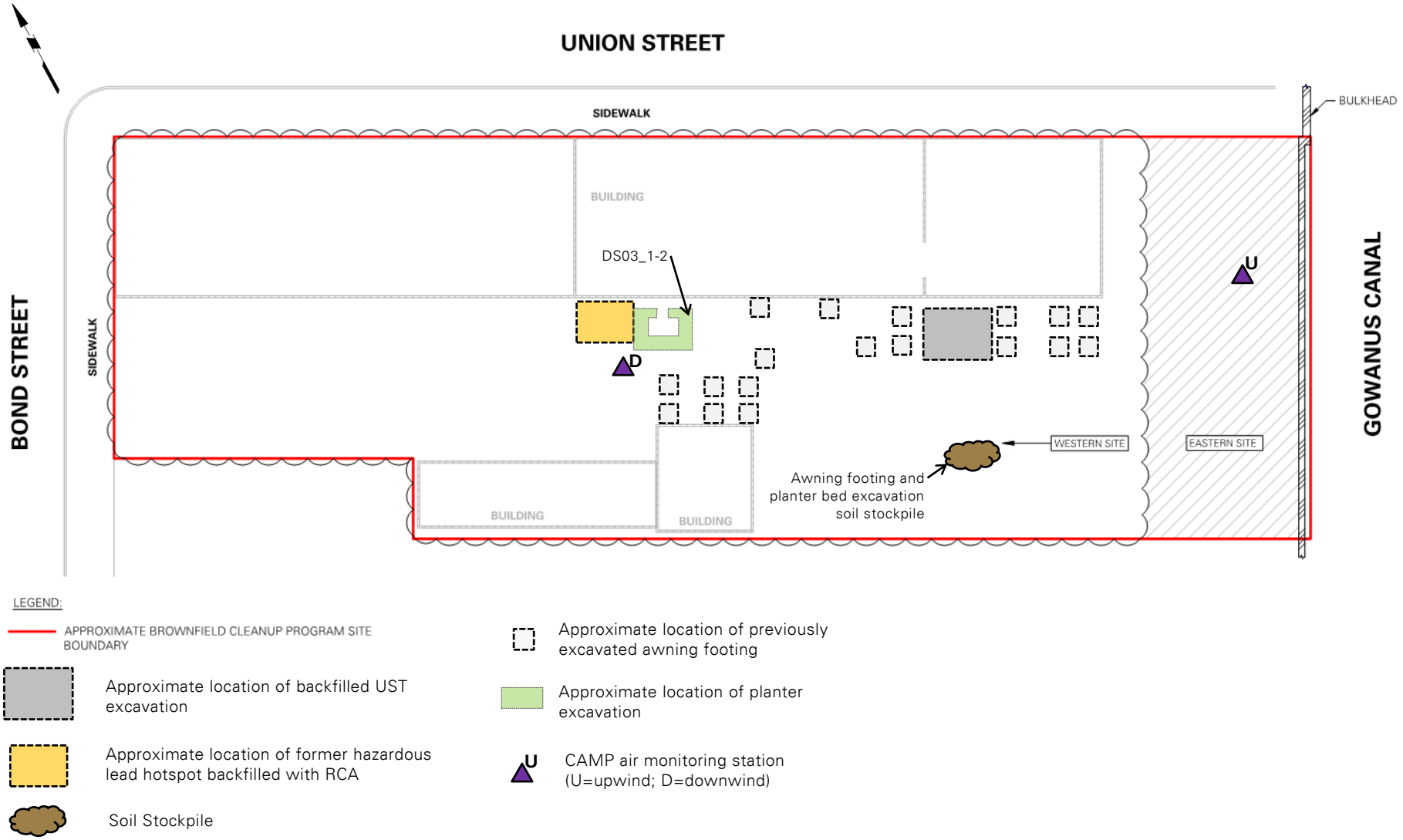
Photo 3: Brookside excavating an existing planter bed in the "Gallery" area (facing southwest).



Photo 4: Former UST excavation backfilled with RCA and covered until a concrete cover is constructed. Stockpiled soil from the planter bed excavation shown in background and covered at the end of the day (facing southeast).

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Kyle Twombly **Langan, D.P.C.**

Site Observation Report: Air Monitoring Locations and Site Activity Sketch



cc:	M. Raygorodetsky, N. Rice, A. Tashji	**By:**	Kyle Twombly **Langan, D.P.C.**

LANGAN SITE OBSERVATION REPORT – DAY 34

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Friday 04/07/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	45-50 °F Partly cloudy, 50%hum; 15-20 mph S
LOCATION:	Brooklyn, NY 11231				
BCP SITE No:	C224219			**TIME:**	07:00 to 15:00

EQUIPMENT:	**PRESENT AT SITE:**
CAT 304CR - Excavator Photoionization detector (PID)	Kyle Twombly (Langan) Bricken Vukaj (Atlas Builders) Mike (Brookside Environmental)

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan was onsite to document implementation of the remedy for the northern part of the site, in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved February 16, 2017 Interim Remedial Measures Work Plan (IRMWP).

Site Activities

- Brookside Environmental excavated an about 12-foot-long x 2-foot-wide x 4-foot-deep area in the northwest portion of the site to remove existing planter beds. Visual, olfactory, and/or instrumental evidence of impacts were not observed in excavated material. Excavated material was stockpiled in the central portion of the site.

Sample Collection

- Samples were not collected.

Material Tracking

- Material was not imported to or exported from the site.

Air Monitoring

- Langan setup two Community Air Monitoring Program (CAMP) stations to monitor upwind and downwind volatile organic compounds (VOCs) and particulate matter less than 10 µm in diameter (PM_{10}) during intrusive work.
    - VOCs or particulates were not recorded above action levels during site activities.

Anticipated Activities

- Brookside will continue planter bed excavation in the northwest and southwest part of the site.
- Documentation soil samples will be collected from awning footing and planter bed areas.

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Kyle Twombly **Langan, D.P.C.**

SITE PHOTOGRAPHS:



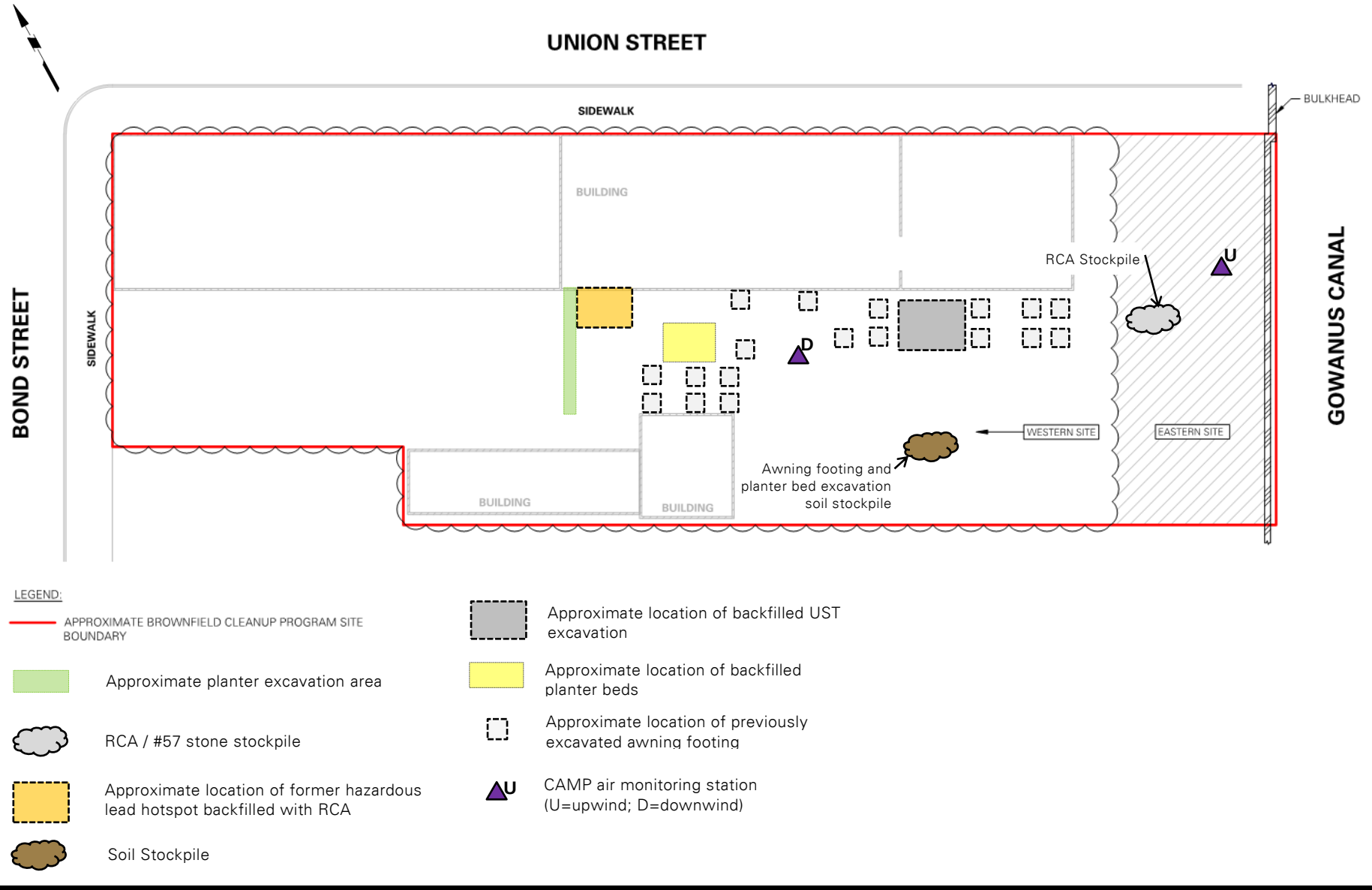
Photo 1: View of 2-foot-wide planter bed excavation (facing west).



Photo 2: Downwind CAMP station setup outside of the working area (facing south).

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Kyle Twombly **Langan, D.P.C.**

Site Observation Report: Air Monitoring Locations and Site Activity Sketch



cc:	M. Raygorodetsky, N. Rice, A. Tashji	**By:**	Kyle Twombly **Langan, D.P.C.**

LANGAN SITE OBSERVATION REPORT – DAY 35

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Monday 04/10/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	50-70 °F Sunny, 50%hum;
LOCATION:	Brooklyn, NY 11231				0-5 mph SE
BCP SITE No:	C224219			**TIME:**	07:00 to 16:00

EQUIPMENT:	**PRESENT AT SITE:**
CAT 304CR - Excavator Photoionization detector (PID)	Kyle Twombly (Langan) Bricken Vukaj (Atlas Builders) Mike (Brookside Environmental)

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan was onsite to document implementation of the remedy for the northern part of the site, in accordance with the NYSDEC-approved February 16, 2017 Interim Remedial Measures Work Plan (IRMWP).

Site Activities

- Brookside Environmental excavated two 12-foot-long x 2-foot-wide x 4-foot-deep areas (one in the southern and central part of the site) to remove existing planter beds and backfill with clean material.
    - Visual, olfactory, and/or instrumental evidence of impacts were not observed in excavated material. Excavated material was stockpiled in the central part of the site.
- Brookside backfilled the planter beds using #57 clean stone to about 2 feet below grade surface (bgs). The top 2 feet of the planter beds will be backfilled with approved top soil at a later date.
- Langan collected documentation soil samples from the planter bed excavations.

Sample Collection

- One waste characterization soil sample (WC_041017) was collected from the stockpile containing soil from the awning footing and planter bed excavations.
- Three documentation soil samples were collected from the base of each planter bed excavation (as shown on the site map). The sample names, locations, and approximate depth are summarized in the below table.

Documentation Soil Samples			
Sample Name	**Sample Matrix**	**Sample Location(s)**	**Sampling Interval (feet)**
DS04_3-4	Soil	Planter Areas	3 to 4
DS05_3-4	Soil	Planter Areas	3 to 4
DS06_3-4	Soil	Planter Areas	3 to 4

Material Tracking

- Material was not exported from the site.
- One truckload of #57 clean stone was imported from NYC Concrete Materials for use as backfill.

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Kyle Twombly **Langan, D.P.C.**

Air Monitoring

- Langan setup two Community Air Monitoring Program (CAMP) stations to monitor upwind and downwind volatile organic compounds (VOCs) and particulate matter less than 10 µm in diameter (PM_{10}) during intrusive work.
    - VOCs were not recorded above action levels during site activities.
    - Particulate concentrations were recorded above action levels between 10:54 and 11:07 because the downwind station was in close proximity to site work. Visible dust was not observed to be generated from the work. The downwind station was relocated away from direct work.

Anticipated Activities

- Brookside will continue excavating planter beds in the northwest and southwest parts of the site.
- Documentation soil samples will be collected from awning footing and planter bed excavations as needed.

SITE PHOTOGRAPHS:



Photo 1: Planter bed excavation along the southern part of the site (facing west).



Photo 2: Imported #57 clean stone stockpile for use as backfill (facing east).

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Kyle Twombly **Langan, D.P.C.**

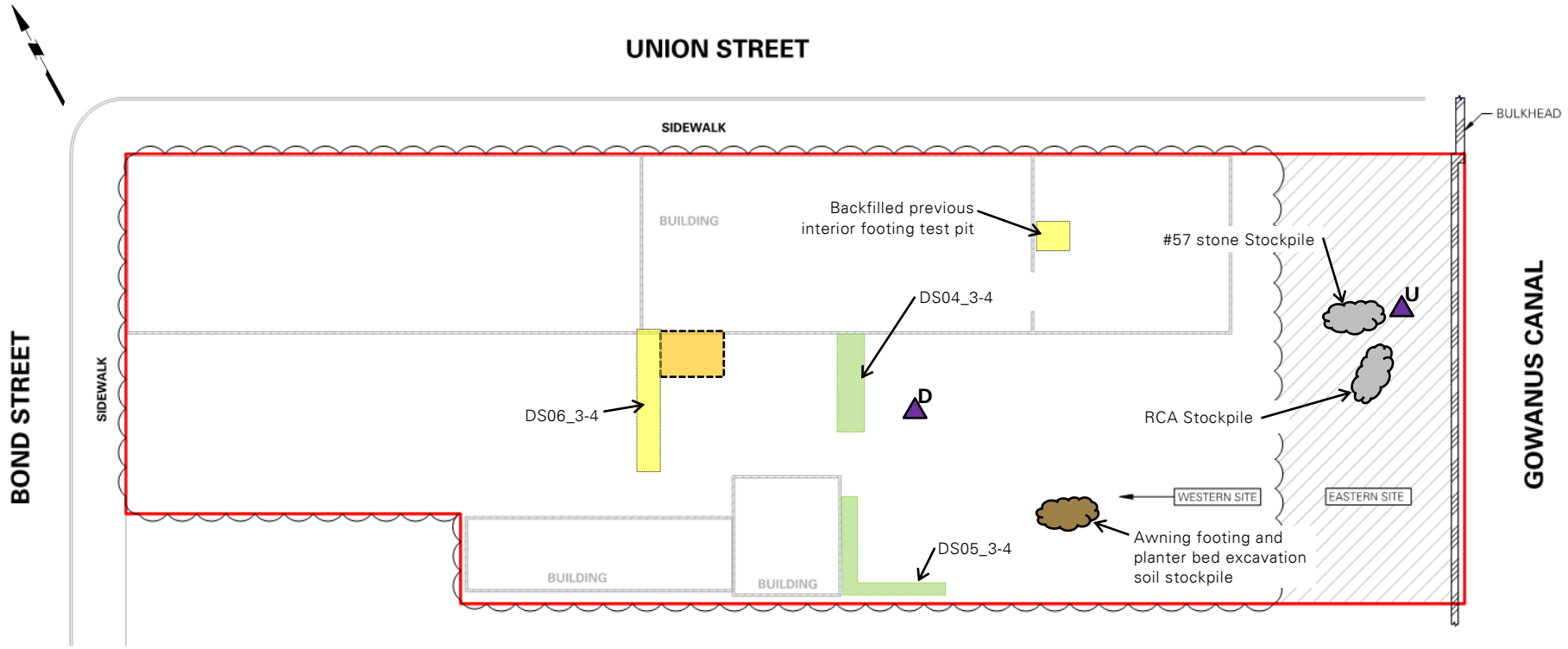


Photo 3: Brookside backfilling a planter bed with #57 clean stone (facing west).



Photo 4: Brookside excavating a planter bed to the south of the Green Building (facing northeast).

Site Observation Report: Air Monitoring Locations and Site Activity Sketch



LEGEND:

- APPROXIMATE BROWNFIELD CLEANUP PROGRAM SITE BOUNDARY
- Approximate planter excavation area
- RCA / #57 Stone stockpile
- Approximate location of former hazardous lead hotspot backfilled with RCA
- Soil Stockpile
- Approximate location of backfilled planter beds (or as noted)
- U — CAMP air monitoring station (U=upwind; D=downwind)

cc:	M. Raygorodetsky, N. Rice, A. Tashji	**By:**	Kyle Twombly **Langan, D.P.C.**

LANGAN SITE OBSERVATION REPORT – DAY 36

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Wednesday 04/12/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	55-70 °F Sunny/Rain
LOCATION:	Brooklyn, NY 11231				50%hum; 5 mph N
BCP SITE No:	C224219			**TIME:**	07:00 to 12:30

EQUIPMENT:	**PRESENT AT SITE:**
CAT 304CR - Excavator Photoionization detector (PID)	Alana Miller (Langan) Bricken Vukaj (Atlas Builders) Mike (Brookside Environmental)

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan was onsite to document implementation of the remedy for the northern part of the site, in accordance with the NYSDEC-approved February 16, 2017 Interim Remedial Measures Work Plan (IRMWP).

Site Activities

- Brookside Environmental excavated an about 20-foot-long x 2-foot-wide x 4-foot-deep area in the central part of the site to widen a planter bed. Visual, olfactory, and/or instrumental evidence of impacts were not observed in excavated material. Excavated material was stockpiled in the central part of the site.
    - The planter bed was backfilled to grade surface using #57 clean stone.
- Brookside backfilled an about 8-foot-long x 1-foot-wide x 1-foot-deep planter bed in the western part of the site using recycled concrete aggregate (RCA.
- Brookside backfilled an about 3-foot-long x 1.5-foot-wide x 2-foot-deep planter bed in the western portion of the site with #57 clean stone to about 2 feet below grade surface (bgs). The top 2 feet will be backfilled with approved top soil at a later date.

Sample Collection

- Samples were not collected.

Material Tracking

- Material was not exported from the site.
- One truckload of #57 clean was imported from NYC Concrete Materials.

Air Monitoring

- Langan setup two Community Air Monitoring Program (CAMP) stations to monitor upwind and downwind volatile organic compounds (VOCs) and particulate matter less than 10 µm in diameter (PM_{10}) during intrusive work.
    - VOCs or particulates were not recorded above action levels during site activities.
    - Particulate monitors were not deployed until 8:11 AM because of a power supply issue.

Anticipated Activities

- Transport stockpiled awning footing and planter bed soil for off-site disposal, pending waste characterization results.

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Alana Miller **Langan, D.P.C.**

SITE PHOTOGRAPHS:



Photo 1: Brookside excavating a central planter bed (facing east).



Photo 2: Brookside backfilling a planter bed using RCA in the western part of the site (facing northeast).

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Alana Miller **Langan, D.P.C.**



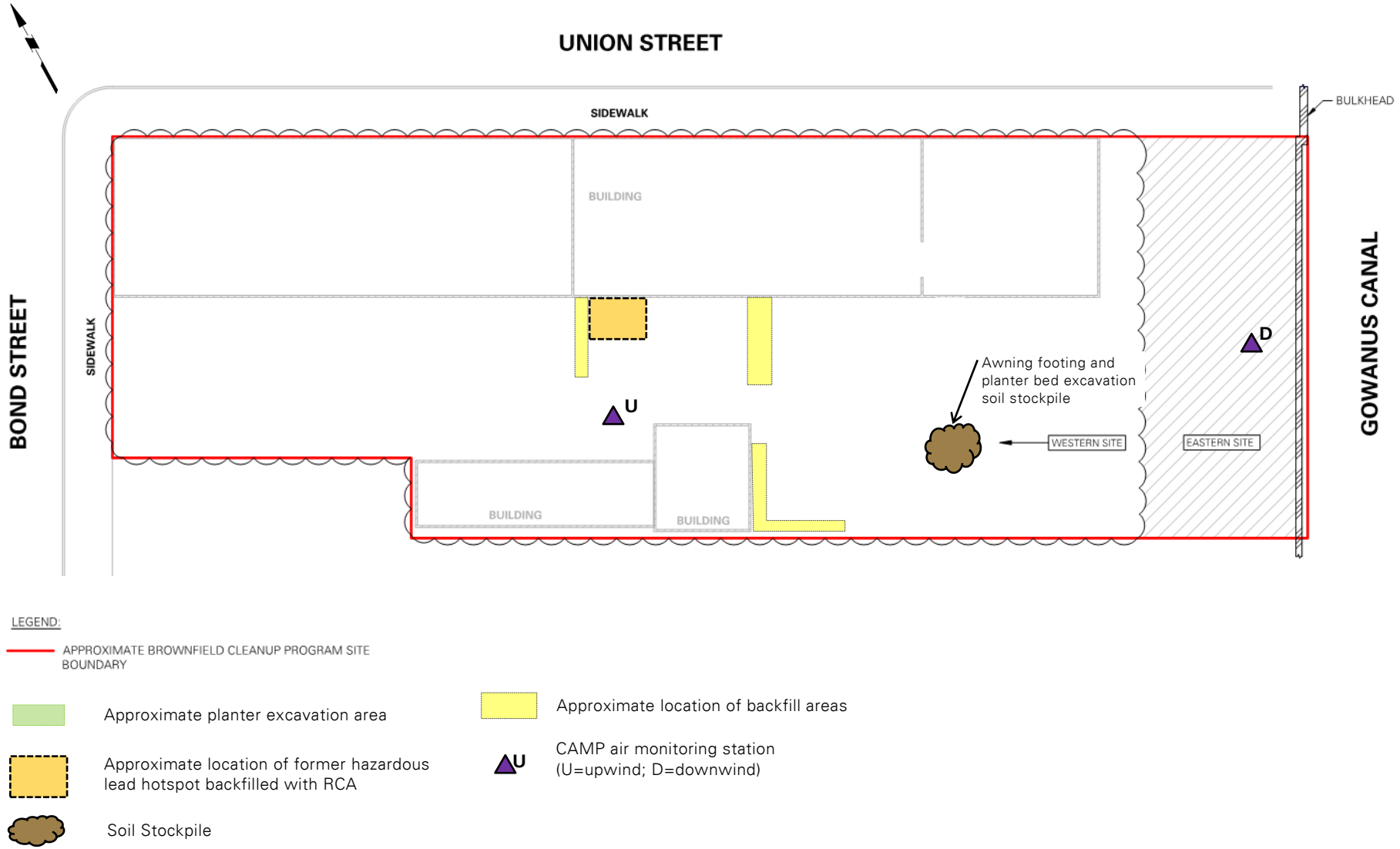
Photo 3: Brookside backfilling the central planter bed using #57 clean stone (facing east).



Photo 4: View of the central planter bed backfilled to surface grade (facing north).

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Alana Miller **Langan, D.P.C.**

Site Observation Report: Air Monitoring Locations and Site Activity Sketch



cc:	M. Raygorodetsky, N. Rice, A. Tashji	**By:**	Alana Miller **Langan, D.P.C.**

LANGAN SITE OBSERVATION REPORT – DAY 37

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Friday 04/14/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	50-60 °F Sunny,
LOCATION:	Brooklyn, NY 11231				35%hum; 5 mph SE
BCP SITE No:	C224219			**TIME:**	07:00 to 11:00

EQUIPMENT:	**PRESENT AT SITE:**
CAT 304CR – Excavator	Thomas Schiefer (Langan)
Deere 320E – Skid steer	Bricken Vukaj (Atlas Builders)
Photoionization detector (PID)	Mike (Brookside Environmental)

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan was onsite to document implementation of the remedy for the northern part of the site, in accordance with the NYSDEC-approved February 16, 2017 Interim Remedial Measures Work Plan (IRMWP).

Site Activities

- Brookside Environmental loaded material from the awning footing and planter bed excavation stockpile into three 20-cubic-yard roll-off containers for off-site disposal.

Sample Collection

- Samples were not collected.

Material Tracking

- Material was not imported to the site.
- Three 20-cubic-yard roll off containers of stockpiled soil from the awning footing and planter bed excavations were transported for off-site disposal at Clean Earth Carteret in Carteret, NJ.

Air Monitoring

- Langan setup two Community Air Monitoring Program (CAMP) stations to monitor upwind and downwind volatile organic compounds (VOCs) and particulate matter less than 10 µm in diameter (PM_{10}) during intrusive work.
    - VOCs or particulates were not recorded above action levels during site activities.

Anticipated Activities

- Planter beds will be backfilled with approved topsoil or covered by a concrete/asphalt cap.

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Thomas Schiefer **Langan, D.P.C.**

SITE PHOTOGRAPHS:



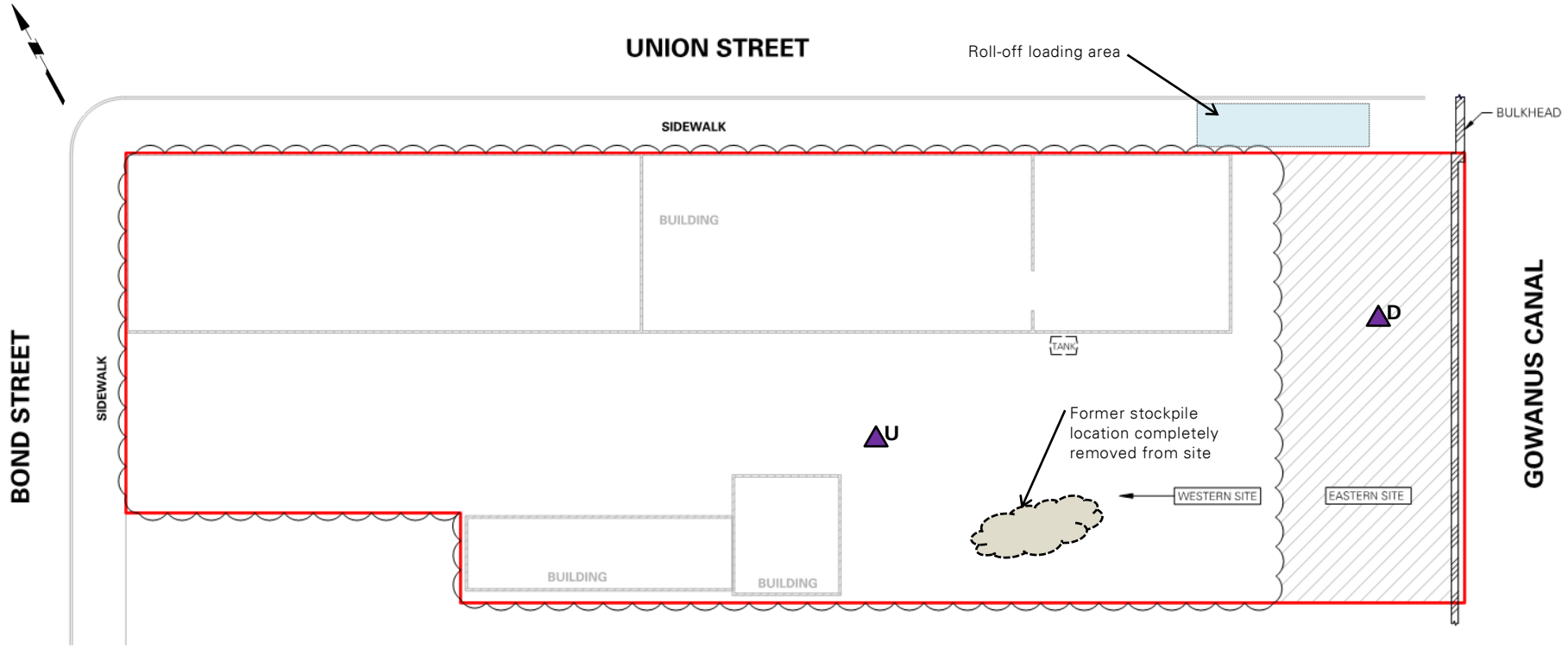
Photo 1: Loading a 20-cubic-yard roll-off container with stockpiled material (facing northeast).



Photo 2: View of roll-off container loaded onto a truck and covered for transport to and disposal at Clean Earth Carteret (facing southeast).

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Thomas Schiefer **Langan, D.P.C.**

Site Observation Report: Air Monitoring Locations and Site Activity Sketch



cc:	M. Raygorodetsky, N. Rice, A. Tashji	**By:**	Thomas Schiefer **Langan, D.P.C.**

LANGAN SITE OBSERVATION REPORT – DAY 38

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Friday 04/28/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	60-70°F, Sunny, 35%hum;
LOCATION:	Brooklyn, NY 11231				Wind: 0-5 mph WSW
BCP SITE No:	C224219			**TIME:**	06:50 to 14:00

EQUIPMENT:	**PRESENT AT SITE:**
CAT 304CR Excavator CAT 236B Skid steer Photoionization detector (PID)	Woo Kim (Langan) Brian Graham (Brookside Environmental)

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan was onsite to document implementation of the remedy for the western part of the site, in accordance with the NYSDEC-approved February 16, 2017 Interim Remedial Measures Work Plan (IRMWP).

Site Activities

- Brookside Environmental excavated two trenches (about 12-foot-long x 2-foot-wide x 4-foot-deep) in the central part of the site for installation of stone planters. Visual, olfactory, and/or instrumental evidence of impacts were not observed in excavated material.
    - Excavated material comprised of historic fill, asphalt, brick, and organic matter.
    - The excavations were backfilled with #57 3/4-inch virgin stone from New York Sand & Stone, LLC in Flushing, NY.
- Brookside Environmental excavated two areas (about 4-foot-long x 4-foot-wide x 2-foot-deep) in the central and eastern parts of the site to remove site soil from existing soil beds for placement of clean material.

Sample Collection

- Two documentation soil samples were collected from the base of the planter excavations. The sample names, location and approximate depth are summarized in the below table.

Documentation Soil Samples			
Sample Name	**Sample Matrix**	**Sample Location(s)**	**Sampling Interval (feet)**
DS07_3-4	Soil	Planter Area	3 to 4
DS08_1-2	Soil	Planter Area	1 to 2

Material Tracking

- Two 55-gallon drums containing nonhazardous waste solids and purge water were exported to the Clean Water of New York in Staten Island, NY.
- One load of historic fill, asphalt, brick, and organic matter was exported to Clean Earth of Carteret in Carteret, NJ.

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Woo Kim **Langan, D.P.C.**

Air Monitoring

- Langan setup two Community Air Monitoring Program (CAMP) stations to monitor upwind and downwind volatile organic compounds (VOCs) and particulate matter less than 10 µm in diameter (PM10) during intrusive work.
    - VOCs or particulates were not recorded above action levels during site activities.
    - The upwind PID did not log data because of equipment malfunction.

Anticipated Activities

- Planter beds will be backfilled with approved topsoil material.

SITE PHOTOGRAPHS:



Photo 1: Brookside excavating a new planter bed near the central part of the site (facing south).



Photo 2: Brookside excavating a new tree pit near the east side of the site (facing north).

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Woo Kim **Langan, D.P.C.**

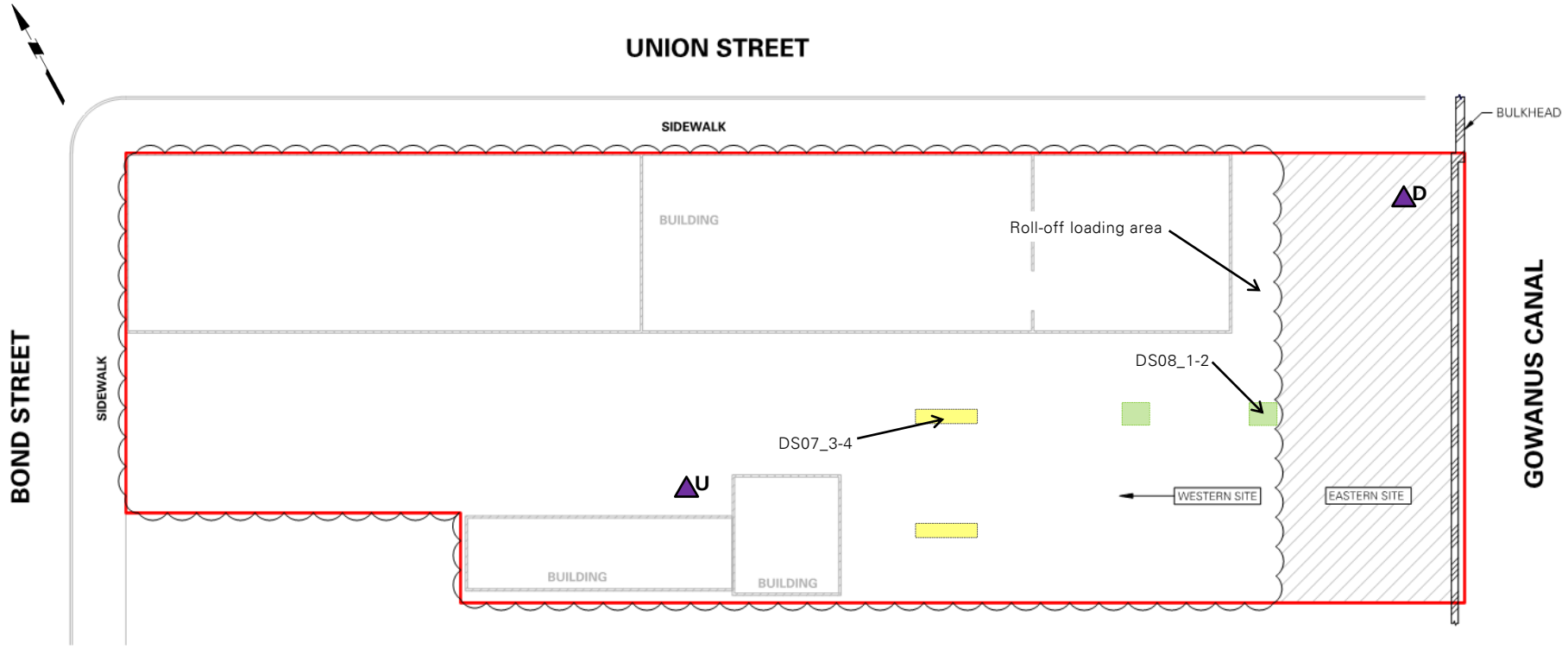


Photo 3: Backfilling one of the planter beds with #57 clean 3/4-inch stone to grade (facing east).



Photo 4: Planter bed completed with 3/4-inch stone backfilled to existing site grade (facing north).

Site Observation Report: Air Monitoring Locations and Site Activity Sketch



cc:	M. Raygorodetsky, N. Rice, A. Tashji	**By:**	Woo Kim
			Langan, D.P.C.

LANGAN SITE OBSERVATION REPORT – DAY 39

PROJECT No.:	170301202	**CLIENT:**		**DATE:**	Wednesday 05/3/2017
PROJECT:	450 Union Street	450 Union, LLC		**WEATHER:**	60-65°F, Cloudy, 39%hum;
LOCATION:	Brooklyn, NY 11231				Wind: 5-10 mph WNW
BCP SITE No:	C224219			**TIME:**	07:30 to 09:00

EQUIPMENT:	**PRESENT AT SITE:**
CAT 304CR Excavator CAT 236B Skid steer	Renate Crollini (Langan) Will (Brookside Environmental) Atlas Builders

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan was onsite to document implementation of the remedy for the western part of the site, in accordance with the NYSDEC-approved February 16, 2017 Interim Remedial Measures Work Plan (IRMWP).

Site Activities

- Brookside Environmental delivered clean 3/4-inch stone for use as backfill in planter bed areas.
    - Atlas Builders placed the stone in planter bed excavations at the 2-foot site cover.
- Atlas Builders spread commercial topsoil to surrounding site grade within tree pit excavations.

Sample Collection

- Samples were not collected.

Material Tracking

- About 5.5 cubic yards of virgin, clean 3/4-inch stone was imported from NY Sand and Stone in Brooklyn, New York for use as planter bed clean cover backfill.
- About 0.75 cubic yards of commercial topsoil manufactured by Hampton Estates was imported for use as clean cover backfill in tree pits.
- About 0.3 cubic yards of commercial topsoil manufactured by Scotts® was imported for use as clean cover backfill in tree pits.

Air Monitoring

- Community air monitoring was not performed because there was no intrusive work performed.

Anticipated Activities

- The final topographic site survey will be completed when access is provided to the neighboring parking lot.

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Renate Crollini **Langan, D.P.C.**

SITE PHOTOGRAPHS:



Photo 1: Clean 3/4-stone imported for planter bed backfill.



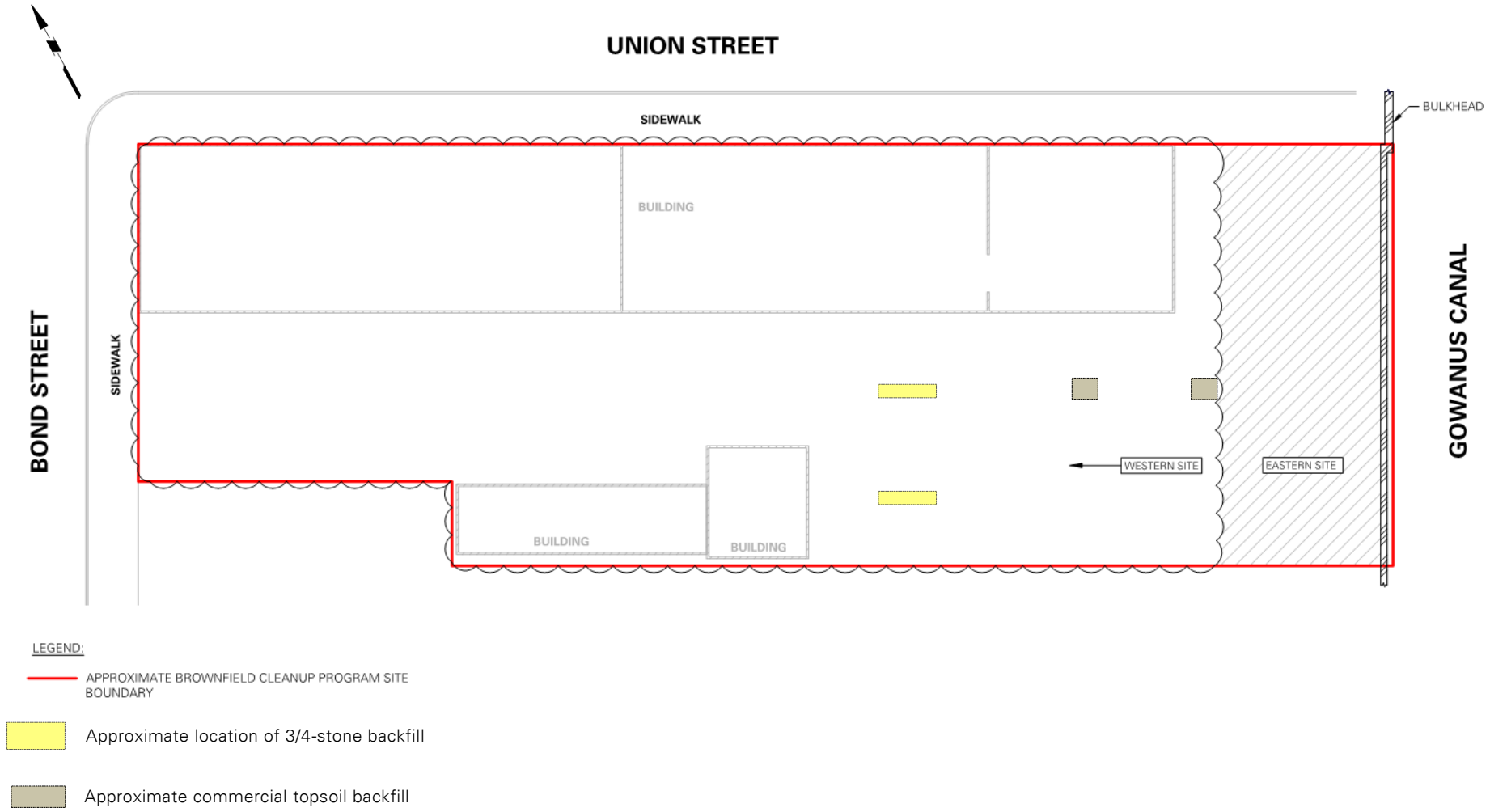
Photo 2: Clean 3/4-inch stone backfilled in planter bed excavation (facing south).

cc:	M. Raygorodetsky, N. Rice, A. Tashji, File	**By:**	Renate Crollini **Langan, D.P.C.**



Photo 3: Commercial topsoil from Hampton Estates used to backfill tree pit excavations.

Site Observation Report: Air Monitoring Locations and Site Activity Sketch



cc:	M. Raygorodetsky, N. Rice, A. Tashji	**By:**	Renate Crollini **Langan, D.P.C.**

APPENDIX L

DIGITAL PHOTO LOG



Photo 1, 2/17/2017: Excavating and backfilling test pits to identify the UST location (facing southeast).



Photo 2, 2/20/2017: Brookside Environmental marking out the hazardous lead excavation (facing west).



Photo 3, 2/20/2017: Brookside Environmental excavating the hazardous lead area using a mini excavator (facing northeast).



Photo 4, 2/20/2017: Hazardous lead soil staged inside of roll-off containers lined with polyethylene sheeting (facing southwest).



Photo 5, 2/20/2017: Groundwater sampling for dissolved SVOCs analysis (facing south).



Photo 6, 2/23/2017: Horwith Trucking preparing to transport hazardous lead material to Clean Earth of North Jersey for disposal (facing south).



Photo 7, 3/2/2017: Brookside backfilling the hazardous lead excavation with structural RCA (facing northeast).



Photo 8, 3/9/2017: Atlas Builders advancing an indoor test pit to evaluate existing building footing conditions (facing west).



Photo 9, 3/30/2017: Atlas Builders excavating awning footings with hand tools (facing northwest).



Photo 10, 3/30/2017: Brookside excavating the adjacent to the Green Building for removal of the UST (facing east).



Photo 11, 4/3/2017: Brookside gauging the UST for the presence of residual product (facing northwest).



Photo 12, 4/3/2017: Screening soil surrounding the UST to assess soil conditions.



Photo 13, 4/3/2017: Brookside cutting the UST and cleaning residual contents prior to disposal (facing southwest).



Photo 14, 4/4/2017: Brookside loading a truck with excavated material from the UST excavation for transport and disposal at Clean Earth of Carteret (facing southeast).



Photo 15, 4/5/2017: Awning footing hand-excavated to about 3 feet bgs.



Photo 16, 4/6/2017: Brookside backfilling the UST excavation with structural RCA (facing south).



Photo 17, 4/6/2017: Brookside excavating a planter area in the western portion of the site (facing south).



Photo 18, 4/7/2017: Brookside backfilling a planter area with RCA in the western part of the site (facing south).



Photo 19, 4/10/2017: Brookside excavating planter areas along the southern boundary of the site (facing west).



Photo 20, 4/10/2017: Imported clean 3/4-inch stone for use as backfill in the upper 2 feet of the site cover (facing northeast).



Photo 21, 4/10/2017: Planter area along the southern boundary being backfilled with imported 3/4-inch stone (facing west).

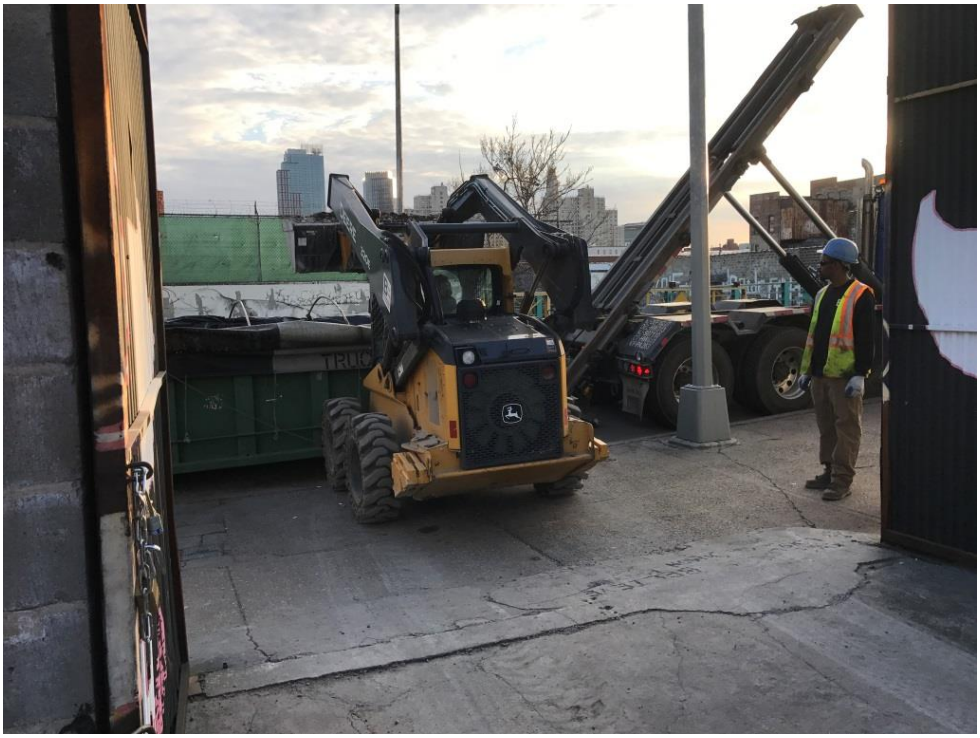


Photo 22, 4/14/2017: Brookside loading a roll-off container with excavated material from awning footing and planter excavations for off-site disposal (facing north).



Photo 23, 4/28/2017: Typical backfilling above the demarcation layer in a new planter area.



Photo 24, 4/28/2017: Brookside excavating new planters in the central portion of the site (facing southeast).



Photo 25, 5/3/2017: Commercial topsoil delivered for placement in tree pits.