737 4TH AVENUE SITE
731-747 4TH AVENUE
BROOKLYN, NEW YORK
SITE #C224332

REMEDIAL INVESTIGATION REPORT

SUBMITTED TO:

New York State Department of Environmental Conservation
Division of Environmental Remediation
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PWGC Project Number: TOT2101

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PWGC
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REMEDIAL INVESTIGATION REPORT
731 TO 747 4th AVENUE, BROOKLYN, NEW YORK

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ACRONYM	DEFINITION
µg/L	Micrograms per liter
µg/m^3	Microgram per cubic meter
AES	Associated Environmental Services, Ltd.
Alpha	Alpha Analytical
AST	Aboveground Storage Tank
AWQS	Ambient Water Quality Standards
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
bgs	below ground surface
BTEX	Benzene, Ethylbenzene, Toluene, Xylene
CAMP	Community Air Monitoring Plan
COPC	Contaminants of Potential Concern
CVOC	Chlorinated Volatile Organic Compound
DCE	Cis-1,2-dichloroethene
Delta	Delta Geophysics, Inc.
DER	Division of Environmental Remediation
DER-10	Technical Guidance for Site Investigation and Remediation
DUSR	Data Usability Summary Report
ELAP	Environmental Laboratory Accreditation Program
EM	Electromagnetic
ERNS	Emergency Response Notification System
ESA	Environmental Site Assessment
FDNY	City of New York Fire Department
FOIA	Freedom of Information Act
FWRIA	Fish and Wildlife Impact Analysis
GCI	General Consolidated Industries, Inc.
GPR	Ground Penetrating Radar
gsf	Gross Square Feet
GV	Guidance Value
HASP	Health & Safety Plan
HDPE	High-density Polyethylene
Langan	Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
mg/kg	milligram per kilogram
MS/MSD	Matrix Spike / Matrix Spike Duplicate
NTU	Nephelometric Turbidity Units
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation

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ACRONYM	DEFINITION
NYSDOH	New York State Department of Health
OWS	Oil Water Separator
PAH	Polyaromatic Hydrocarbon
PBS	Petroleum Bulk Storage
PCB	Polychlorinated Biphenyl
PCE	Tetrachloroethene
PFAS	Perfluoroakyl and Polyfluoroakyl Substances
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctanesulfonic Acid
PID	Photo-ionization Detector
PPE	Personal Protective Equipment
ppm	parts per million
PVC	Polyvinyl Chloride
PWGC	P.W. Grosser Consulting, Inc.
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance / Quality Control
QEP	Qualified Environmental Professional
RAO	Remedial Action Objective
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation Recovery Act
REC	Recognized Environmental Condition
RI	Remedial Investigation
RIR	Remedial Investigation Report
RIWP	Remedial Investigation Work Plan
SCO	Soil Cleanup Objective
SDG	Sample Delivery Group
sf	square-feet
SVOC	Semi-volatile Organic Compound
TCE	Trichloroethene
TOGS 1.1.1	Division of Water Technical and Operation Guidance Series (1.1.1)
UIC	Underground Injection Control
USCS	Unified Soil Classification System
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VC	Vinyl Chloride
VISL	Vapor Intrusion Screening Levels
VOC	Volatile Organic Compound

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CERTIFICATION

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

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

11/23/2022

Signature Date

It is a violation of Article 145 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 145, New York State Education Law.

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1.0 INTRODUCTION

The Applicant, 737 4th Avenue, LLC, was accepted into the NYSDEC's Brownfield Cleanup Program (BCP) as a Volunteer as set forth in a Brownfield Cleanup Agreement (BCA), dated November 19, 2021, Site No. C224332. P.W. Grosser Consulting, Inc. (PWGC) has prepared the following RIR on behalf of the Applicant to document the results of the Remedial Investigation (RI) based upon the February 2022 Remedial Investigation Work Plan (RIWP) approved by the NYSDEC on February 28, 2022. The purpose of the RI was to delineate the areal and vertical extent of contaminants in media at or emanating from the subject property, determine the surface and subsurface characteristics of the subject property, identify the sources of contamination, the migration pathways, and actual or potential receptors of contaminants, and collect and evaluate data to assess impacts to public health and the environment, including fish and wildlife resource impacts at the subject property located at 731 to 747 4th Avenue, Brooklyn, New York.

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2.0 SUBJECT PROPERTY DESCRIPTION AND HISTORY

2.1 Subject Property Description

The subject property consists of one parcel located at 731 to 747 Atlantic Avenue in the Greenwood Heights neighborhood of Brooklyn, New York. The subject property is located in the Borough of Brooklyn and Kings County. The subject property is identified in the New York City Tax Map as Block 652, Lot 1. The subject consisted of two tax lots and was recently merged; the new lot will be referred to as Lot 1 and the former lots will be referred to as Former Lot 1 and Former Lot 7.

A Site Location Map is included as **Figure 1** and a Site Plan with is included as **Figure 2**.

2.2 Subject Property History

Historical usage of the subject property includes the following:

- 731 4th Ave (Former Lot 7) was first developed prior to 1888, used for residential purposes from at least 1888 to 1906, and for commercial/industrial purposes from 1906 to the present. Historical usage of the subject property indicative of potential recognized environmental conditions (RECs) includes usage as a junk yard, metal manufacturer, and an auto repair shop.
- 737 4th Ave (Former Lot 1) was first developed between 1906 and 1926, used as an auto garage and filling station for almost eight decades, and was redeveloped into a Dunkin Donuts around 2004. Historical usage of the subject property indicative of potential RECs includes usage as an auto body garage and filling station.

2.3 Regional Geology/Hydrogeology

The geologic setting of Long Island is well documented and consists of crystalline bedrock composed of schist and gneiss overlain by layers of unconsolidated deposits. Immediately overlying the bedrock is the Raritan Formation, consisting of the Lloyd sand confined by the Raritan Clay Member. The Lloyd sand is an aquifer and consists of discontinuous layers of gravel, sand, sandy and silty clay, and solid clay. The Raritan Clay is a solid and silty clay with few lenses of sand and gravel; abundant lignite and pyrite; and gray, red or white in color.

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Above the Raritan Clay lies the Magothy Formation. The Magothy Aquifer consists of layers of fine to coarse sand of moderate to high permeability, with inter-bedded lenses of silt and clay of low permeability resulting in areas of preferential horizontal flow. Therefore, this aquifer generally becomes more confined with depth. The Magothy Aquifer is overlain by the Upper Glacial Aquifer. The Upper Glacial Aquifer is the water table aquifer at this location and is comprised of medium to coarse sand and gravel with occasional thin lenses of fine sand and brown clay. This aquifer extends from the land surface to the top of the Magothy and, therefore, is hydraulically connected to the Magothy Aquifer.

2.4 Subject Property Geology/Hydrogeology

The subject property elevation ranges between approximately 32 feet and 42 feet above mean sea level with elevation increasing from the western corner (25th Street and 4th Avenue intersection) to the eastern corner (up 24th Street). The stratigraphy of the subject property, from the surface down, consists primarily of fill from grade ranging down to 2 to 10 feet below grade. The fill, including broken concrete and bricks, was underlain by native soils which primarily consisted of silt to fine-grained sands to at least 20 feet below grade. Groundwater was encountered at approximately 22 feet below grade in the southern section of the subject property and regional groundwater flow is anticipated to flow towards the northwest according to the United States Geological Survey (USGS) 2013 Groundwater Conditions on Long Island map. The presence of an adjacent subway line along 4th Avenue may impact the groundwater flow and depth to groundwater. Bedrock was not encountered. There are no public water supply wells within 1 mile of the subject property. Based on topographic maps, it appears the nearest permanent surface water body/wetland is the Gowanus Bay, located approximately ¼ mile west of the subject property.

2.5 Subject Property Features

The subject property is currently improved as detailed below:

- 737 4th Avenue (Former Lot 1) measures approximately 15,017 square feet and is improved with a two-story frame commercial building (no longer in operation) measuring approximately 4,677 square feet and an asphalt paved parking lot. The building was most recently utilized as a Dunkin Donuts restaurant and is vacant.

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- 731 4th Avenue (Former Lot 7) measures approximately 5,017 square feet and is improved with two one-story concrete block buildings (no longer in operation) with footprints measuring 2,508 and 1,528 square feet and one two-story building with a footprint measuring 1,003 square feet. The buildings occupy the entire lot. The two-story building is occupied by an auto body shop that is still occupied. The retail building has two vacant units and a deli in the third unit that is still occupied.

2.6 Future Subject Property Use

The Applicant proposes to demolish the existing structures at the proposed development Site and construct a new 14-story mixed-use development. The building will occupy the entirety of the Site on the first floor. A partial cellar will be constructed that will occupy approximately 11,000 square feet, extending approximately 60 feet east and 185 feet north of the southwest property corner. As part of development, the referenced Lots (1 and 7) were merged into Lot 1.

2.7 Previous Environmental Reports

The subject property's environmental history is based upon the following reports that have been prepared for the subject property:

- 737-747 4th Avenue
    - Phase I Environmental Site Assessment (ESA) – PWGC prepared March 2018; Updated August 2018
    - Phase II ESA – PWGC prepared August 2018
- 731-735 4th Avenue
    - Phase I ESA – Middleton Environmental Inc. prepared April 2013
    - Phase I ESA – PWGC prepared January 2019; updated July 2019
    - Limited Phase II ESA – PWGC prepared March 2019
    - Phase II ESA – PWGC prepared July 2021

Summaries of the reports are provided below and the actual reports are provided in the RIWP.

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2.7.1 737-747 4th Avenue (Former Lot 1)

2.7.1.1 Phase I Environmental Site Assessment (March 2018; Updated August 2018)

PWGC prepared a Phase I ESA for the subject property. Conditions determined to be RECs are detailed below:

- The subject property was historically utilized as a gasoline service station and auto repair shop for approximately 8 decades. This long history of usage has resulted in the subject property's inclusion in several environmental databases (USTs, LTANKS, and Liens) and the installation of numerous monitoring wells throughout the subject property and surrounding areas related to an active spill being investigated and remediated by the NYSDEC.
- Several off-site properties have been identified that have the potential to affect environmental conditions beneath the subject property related to the migration of groundwater and soil vapor beneath the subject property, most notably in the form of spill #93-05122. Spill # 93-05122 was originally attributed to the subject property in part or in whole; however, further investigation by the NYSDEC identified a UST at the eastern neighboring site at 207 25th Street as the likely source of Spill #93-05122. Spill #93-05122 was administratively closed and the further investigation and remediation of the spill beneath the subject property continued under spill #16-10374.
    - Remediation under Spill #93-05122 included the limited excavation of the tank pad area located on the northern side of Former Lot 1. Approximately eleven to fourteen 550-gallon USTs were removed, as well as 428 tons of petroleum contaminated soil. The excavation extended up to 11 feet below grade and is estimated to have been 700 square feet.

2.7.1.2 Phase II Environmental Site Assessment (August 2018)

PWGC performed a Phase II ESA at 737-747 4th Avenue property between April and May 2018. The Phase II included:

- Drilling seven soil borings throughout the subject property.
- Screening soil for volatile organic compounds (VOCs) using a photoionization detector (PID).

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- Collecting soil samples for laboratory analysis.
- Ten previously installed groundwater monitoring wells were gauged and sampled.

The findings of this investigation included:

- PID readings and olfactory observations indicated that impact was not observed in the vadose zone, but higher readings and stronger odors were obtained closer to the groundwater table.
- The highest PID readings were obtained at the groundwater table and in the borings closest to the upgradient side of the property.
- VOCs were detected at concentrations exceeding NYSDEC CP-51 Soil Cleanup Objectives (SCOs) in two of the soil borings, SB002 and SB004, which are located closest to 25th Street with the highest concentrations observed in SB004 (Total VOC concentration of 247.8 milligrams per kilogram [mg/kg]).
- Semi-volatile organic compound (SVOC) impact to soil was not identified.
- Light Non-Aqueous Phase Liquid (LNAPL) consisting of oil was observed in three of the groundwater monitoring wells located on the upgradient side of the property or on the adjacent sidewalk, measuring between 0.85 feet and 1.42 feet.
- Groundwater analytical results indicated that VOC impact to the groundwater is limited to the upgradient portion of the property and SVOC impact is observed site-wide at low-level concentrations exceeding the groundwater quality standard (GQS).

2.7.2 731 4th Avenue (Former Lot 7)

2.7.2.1 Phase I Environmental Site Assessment Report (April 2013)

Middleton Environmental Inc. (MEI) prepared a Phase I ESA for 731 4th Avenue in April 2013. The findings were as follows:

- No RECs were identified in connection with the subject property.
- The site reconnaissance, interviews and review of records did not find the presence or possible presence of hazardous substances or petroleum-related products that could indicate an existing

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release, past release or significant threat of a release into structures on the property, into ground, groundwater or surface water.

2.7.2.2 Phase I Environmental Site Assessment Report (January 2019; updated July 2019)

PWGC prepared a Phase I ESA for the site in July 2019. PWGC identified the following RECs for the subject property:

- The subject property was historically utilized as a metals manufacturer, a junk yard, and an auto repair shop; use as an auto body repair shop has continued to the present day. The majority of these activities appeared to have been conducted in the rear portion of the property along 24th Street. Petroleum compounds and chemical solvents are typically associated with these activities; therefore, the subject property's historical and current use was a REC.
- Several off-site properties were identified with petroleum spills that have the potential to affect environmental conditions beneath the subject property related to the migration of groundwater and soil vapor beneath the subject property. Due to the open status of these spills, their presence was considered a REC.

2.7.2.3 Limited Phase II Environmental Site Assessment Report (March 2019)

PWGC conducted a Limited Phase II investigation for the subject property on February 24, 2019 to determine if a potential volatile organic source of contamination existed beneath the subject property. The purpose was to further evaluate RECs identified in a Phase I ESA by obtaining sound, scientifically valid data concerning actual property conditions.

As access to the property was not granted, the Limited Phase II ESA included the following task:

- Soil Vapor Quality Evaluation

As New York State has not developed standards or guidance levels for soil vapor concentrations, soil vapor samples were evaluated as a whole. The findings of the sub-slab vapor investigation were as follow:

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- Multiple VOCs were detected in each soil vapor sample collected from the subject property. Petroleum related compounds, such as benzene, ethylbenzene, toluene, and/or xylenes were detected in each soil vapor sample at relatively low concentrations.
- Compounds for which NYSDOH has established soil vapor/indoor air decision matrices (carbon tetrachloride, 1,1-dichloroethene, cis-1,2-dichloroethene, trichloroethene (TCE), methylene chloride, tetrachloroethene (PCE), 1,1,1-trichloroethane and vinyl chloride) were not detected at concentrations greater than the laboratory method detection limits (MDLs).

2.7.3 731-737 4th Avenue (Full Site)

2.7.3.1 Phase II Environmental Site Assessment Report (July 2021)

PWGC conducted a Phase II ESA for 731 to 737 4th Avenue on May 13, 2021 to evaluate soil conditions beneath the buildings. A total of five soil borings were conducted and ten soil samples collected. Samples were collected from 0 to 2 feet and from the apparent 2-foot interval of the bottom of the fill layer. The fill layer ranged between 5 and 10 feet below grade.

- There were no VOC exceedances of Unrestricted Use SCOs; however, PCE was detected in one of the soil samples in the vicinity of where the PCE detection was in the soil vapor samples collected in 2019.
- SVOC exceedances were identified in each of the 0 to 2 foot samples and in one of the deeper samples. The SVOC exceedances generally consisted of polycyclic aromatic hydrocarbons (PAHs). Each of the six samples with exceedances exceeded the Unrestricted Use SCOs for one or more compounds. The samples collected from SB001 (0 to 2 feet) and SB003 (4 to 6 feet) contained the highest concentrations of total SVOCs, 386 mg/kg and 309 mg/kg, respectively.

  Metals were detected at concentrations that exceeded Unrestricted Use SCOs in eight of the ten samples and exceeded Restricted Residential SCOs in five of the ten samples. The compounds that exceeded Restricted Residential SCOs included arsenic (max 17.3 mg/kg), barium (max 517 mg/kg), lead (max 2,740 mg/kg), and mercury (3.57 mg/kg) and were generally observed in the

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shallow 0 to 2 foot samples with the exception of the 4 to 6 foot sample from SB003 which also contained Restricted Residential SCOs. Other compounds detected included cadmium, copper, nickel, and zinc.

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3.0 STANDARDS, CRITERIA, AND GUIDANCE (SCGS)

Based on previous investigations at the subject property, the primary chemicals of potential concern (COPC) encountered at the subject property are VOCs, SVOCs, and metals.

Applicable regulations at NYSDEC 6 NYCRR Part 375 provide SCOs for Unrestricted Use and Restricted Use based on the intended usage of the property. Restricted Use SCOs include: Residential, Restricted Residential (single family houses not permitted), Commercial, or Industrial. The future intended usage of the property is intended to be for multi-family residential purposes; therefore, soil sample results are compared to the Unrestricted Use SCOs and Restricted Residential Use SCOs. In addition, soil samples are also evaluated against the NYSDEC June 2021 Guidelines for Sampling and Analysis of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs.

Groundwater sample results are compared to the NYSDEC Class GA ambient water quality standards (AWQS) as specified in the Technical Operation and Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards and Guidance Values. In addition, groundwater samples are also evaluated against the NYSDEC June 2021 Guidelines for Sampling and Analysis of PFAS Under NYSDEC's Part 375 Remedial Programs.

Soil vapor results are evaluated to determine the type and concentration of analytes present and the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006 with updated air matrices dated 2017, are referenced.

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4.0 REMEDIAL INVESTIGATION

The primary objectives of the additional work detailed in this report were to delineate the areal and vertical extent of contaminations in all media at or emanating from the subject property, determine the surface and subsurface characteristics of the subject property, identify the sources of contamination, the migration pathways, and actual or potential receptors of contaminants, and collect and evaluate data to assess impacts to public health and the environment, including fish and wildlife resource impacts. The Scope of Work included the following tasks:

1) Geophysical Survey
2) Additional characterization of soils on the subject property
3) Additional characterization of groundwater on the subject property
4) Additional characterization of soil vapor on the subject property
5) Confirmation of groundwater flow direction beneath the subject property
6) Qualitative human health exposure evaluation

4.1 Geophysical Survey

To determine if subsurface anomalies are present at the subject property a geophysical survey was performed by Delta Geophysics Inc. (Delta) of Catasauqua, PA. PWGC and Delta mobilized to the subject property on March 1, 2022 to perform a limited geophysical survey.

4.1.1 Electromagnetic Survey

The electromagnetic (EM) method uses the principle of EM induction to measure the variability of electrical conductivity of subsurface materials and the presence of buried metal objects. Significant contrasts in the electrical properties between non-indigenous materials and surrounding soil enable accurate delineation of buried waste materials, fill, and air spaces. The large EM response to metal makes this technique particularly well suited to identify buried objects such as USTs, metallic wastes, buried drums, pipelines, reinforced building foundations, or other metal components of buried structures. It is, however, equally sensitive to metal objects on the ground surface, and it is important to take careful field notes that indicate the position of surface metal to avoid misinterpretation.

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4.1.2 Ground Penetrating Radar Survey

The ground penetrating radar (GPR) method is based upon the transmission of repetitive, radio-frequency EM pulses into the subsurface. When the transmitted energy of down-going wave contacts an interface of dissimilar electrical character, part of the energy is returned to the surface in the form of a reflected signal. This reflected signal is detected by a receiving transducer and is displayed on the screen of the GPR unit as well as being recorded on the internal hard drive.

The received GPR response remains constant as long as the electrical contrast between media is present and constant. Lateral or vertical changes in the electrical properties of the subsurface result in equivalent changes in the GPR responses. The system records a continuous image of the subsurface by plotting two-way travel time of the reflected EM pulse versus distance traveled along the ground surface. Two-way travel time values are then converted to depth using known soil velocity functions. Each radar profile is examined for characteristic GPR signatures that may indicate the presence of buried targets.

4.1.3 Survey Findings

The geophysical survey was generally limited to areas proposed for sampling. Subsurface anomalies that were consistent with buried USTs or other anomalies were not detected during the survey.

Delta also performed a utility survey across the specified area. The following utilities were identified: electric, sewer, water, storm drain, gas, and unknown utility lines. Each of the detectable utilities were marked onsite with appropriate colors. Unknown utilities were marked onsite in white.

It should be noted that subsurface anomalies may exist beyond the capability of the equipment utilized due to interference or other factors. The GPR was limited to approximately 1 to 3 feet below grade due to this interference.

A Geophysical Survey Report is attached in **Appendix A**.

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4.2 Soil Quality

Soil sampling was performed in accordance with DER-10 and with Section 3.1.1 of the NYSDEC approved RIWP.

To further characterize subsurface conditions at the subject property, 11 additional soil borings (SB001 through SB011) were installed throughout the property to supplement the previously installed borings during the Phase II ESAs. Associated Environmental Services, Ltd. (AES) of Hauppauge, New York provided drilling services. PWGC and AES mobilized to the subject property on March 1, 2022 to install the 11 additional borings. These soil borings were installed to delineate the extent of VOCs, SVOCs, and metal impacts observed in prior sampling and to supplement the overall subsurface conditions. Soil boring locations are shown on **Figure 3**.

Soil borings were installed utilizing a Geoprobe® direct-push 7822DT drill rig and a Geoprobe® direct-push 420M. The drill rigs were outfitted with a dual-core sampler and dedicated acetate liners. Non-dedicated sampling equipment was decontaminated in accordance with the procedures specified in Section 4.10 of the RIWP.

Soils were field screened for the presence of volatile organic vapors using a photo-ionization detector (PID) and classified in accordance with the Unified Soil Classification System (USCS). Soils at the subject property consisted of soils mixed with brick, asphalt, and concrete ("fill") material from grade to approximately 10 feet bgs underlain by silty or clayey sands.

Elevated PID detections (between 56.5 and 149.5 parts per million [ppm]) were observed in three of the 11 soil borings (SB007, SB009, and SB011). These three borings are located in the vicinity of the petroleum spill investigated under spill numbers 93-05122/16-10374.

Soil boring logs are included as **Appendix B**.

4.2.1 Sampling Protocol

Soil samples were collected from each soil boring in accordance with the RIWP. Soil samples were collected from the intervals detailed in the table below.

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Boring	Grade Elevation	Depth Intervals	Estimated Elevations	Rationale
SB001	41 feet	0 to 2 feet 4 to 6 feet	41 to 39 feet 37 to 35 feet	Delineate PAHs and metals impact, general site characterization.
SB002	40 feet	2 to 4 feet 6 to 8 feet 18 to 20 feet	38 to 36 feet 34 to 32 feet 22 to 20 feet	Delineate PAHs and metals impact, general site characterization.
SB003	37 feet	3 to 5 feet 9 to 11 feet 15 to 17 feet 20 to 22 feet	34 to 32 feet 28 to 26 feet 22 to 20 feet 17 to 15 feet	Delineate PAHs and metals impact, general site characterization.
SB004	36 feet	2 to 4 feet 6 to 8 feet	34 to 32 feet 30 to 28 feet	General site characterization.
SB005	37 feet	0 to 2 feet 8 to 10 feet 12 to 14 feet 15 to 17 feet	37 to 35 feet 29 to 27 feet 25 to 23 feet 22 to 20 feet	General site characterization.
SB006	24 feet	3 to 4 feet 4 to 6 feet	21 to 20 feet 20 to 18 feet	General site characterization. Located in basement.
SB007	36 feet	3 to 5 feet 7 to 9 feet 18 to 20 feet	33 to 31 feet 29 to 27 feet 18 to 16 feet	Evaluate presence of offsite contamination source, general site characterization.
SB008	34 feet	0 to 2 feet 2 to 4 feet 6 to 8 feet 12 to 14 feet	34 to 32 feet 32 to 30 feet 28 to 26 feet 22 to 20 feet	General site characterization.
SB009	33 feet	3 to 5 feet 5 to 7 feet 9 to 11 feet	30 to 28 feet 27 to 25 feet 24 to 22 feet	General site characterization.
SB010	34 feet	0 to 2 feet 4 to 6 feet 8 to 10 feet	34 to 32 feet 30 to 28 feet 26 to 24 feet	Evaluate presence of offsite contamination source, general site characterization.
SB011	32 feet	0 to 2 feet 6 to 8 feet 18 to 20 feet	32 to 30 feet 26 to 24 feet 14 to 12 feet	General site characterization.

At SB006, a sample was not collected from the 0 to 2-foot interval due to the presence of a rocky substrate that extended approximately 3 feet below the basement of the Dunkin Donuts building. At SB008, an additional sample interval of 2 to 4 feet was collected

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4.2.2 Sample Analysis

Samples collected during this RI were placed in pre-cleaned, pre-preserved, laboratory-supplied glassware and stored on ice in a cooler for transport to the laboratory. Samples were submitted to Alpha Analytical of Westboro, Massachusetts (Alpha), a NYSDOH Environmental Laboratory Approval Program (ELAP) certified laboratory (ELAP ID: 10854).

Soil samples for supplemental characterization of the subject property were analyzed for the following:

- TCL VOCs by USEPA Method 8260, collected with terracore devices
- TCL SVOCs by USEPA Method 8270
- TCL Pesticides/Polychlorinated Biphenyls (PCBs) by USEPA Method 8081/8082
- Trivalent & Hexavalent Chromium by USEPA Method 7196
- Total Cyanide by USEPA Method 9012
- TAL Metals by USEPA Method 6010/7471
- Silvex by USEPA Method 8151
- PFAS by USEPA Method 537.1 Modified
- 1,4-Dioxane by USEPA Method 8270-SIM

4.2.3 Analytical Results

Soil sample results were compared to the Unrestricted Use and Restricted Residential Use SCOs specified in 6 NYCRR Part 375, Environmental Remediation Programs (December 2006) and the Unrestricted Use and Restricted Residential Use guidance values specified in Guidelines for Sampling and Analysis of PFAS under NYSDEC's Part 375 Remedial Programs, June 2021. Soil analytical data is summarized on **Tables 1** through **5** and laboratory reports are included as **Appendix C**. Soil analytical data from the RI are included on the spider diagram as **Figure 4**.

A total of 33 soil samples were collected for VOC analysis. VOCs were detected at concentrations greater than their respective Unrestricted Use SCOs in four of the 33 soil samples analyzed; however, they did not exceed their respective Restricted Residential Use SCOs. In soil boring SB003 from 3 to 5 feet, acetone was detected at a concentration of 0.051 mg/kg, slightly exceeding its Unrestricted Use SCO of 0.05 mg/kg.

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In a deeper soil sample collected from SB003 from 9 to 11 feet, acetone was not detected at a concentration greater than its method detection limit (MDL). Acetone is a typical laboratory contaminant and there are no known sources of acetone at the subject property. In soil boring SB007 from 7 to 9 feet, 1,2,4-trimethylbenzene, naphthalene, and total xylenes were detected at concentrations of 13 mg/kg, 15 mg/kg, and 2.6 mg/kg, respectively, exceeding their respective Unrestricted Use SCOs of 3.6 mg/kg, 12 mg/kg and 0.26 mg/kg. In a deeper soil sample collected from SB007 from 18 to 20 feet, 1,2,4-trimethylbenzene, naphthalene, and total xylenes were not detected at concentrations greater than their respective MDLs. In soil boring SB009 from 9 to 11 feet, acetone was detected at a concentration of 0.083 mg/kg, slightly exceeding its Unrestricted Use SCO of 0.05 mg/kg. In soil boring SB011 from 18 to 20 feet, the compound n-propylbenzene was detected at a concentration of 6.6 mg/kg, slightly exceeding its Unrestricted Use SCO of 3.9 mg/kg. Petroleum related compounds were non-detect in most other samples; however, low level and sometimes estimated detections of benzene, ethylbenzene, tri- and tetramethylbenzenes, xylenes, and/or toluene were also detected in samples from soil borings SB001, SB002, SB006, SB007, SB008, SB009, SB010, and SB011 that did not exceed Unrestricted Use SCOs. Methyl-tert-butyl-ether (MTBE), a typical component of gasoline, was detected in only one soil sample at an estimated concentration. The MTBE detection was in SB007 at 18 to 20 feet which is up-gradient of the former gasoline tanks and pump island and is likely from the smear zone. Tetrachloroethene (PCE) and Trichloroethene (TCE) were detected in one soil boring, SB001, neither of which exceeded Unrestricted Use SCOs.

A total of 33 soil samples were collected for SVOC analysis. SVOCs were detected at concentrations greater than Unrestricted Use SCOs in six of the 33 soil samples analyzed; each one of these samples also contained exceedances of Restricted Residential Use SCOs. The compounds detected consisted of poly aromatic hydrocarbons (PAHs). Exceedances of PAHs were generally limited to shallower soil samples, including SB001 at 2 to 4 feet and 4 to 6 feet, SB003 at 3 to 11 feet, SB010 at 4 to 6 feet, and SB011 at 0 to 2 feet.

A total of 33 soil samples were collected for metals analysis. Metals were detected at concentrations greater than Unrestricted Use SCOs in six of the 33 soil samples analyzed; three of these samples exceeded

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Restricted Residential Use SCOs. The compounds exceeding SCOs include arsenic, cadmium, hexavalent chromium, copper, lead, mercury, and zinc. Of these compounds, arsenic, copper, lead, and mercury exceeded Restricted Residential Use SCOs. Both hexavalent and trivalent chromium were detected in multiple soil samples with two of the instances of hexavalent chromium exceeding Unrestricted Use SCOs. Boring SB002 from 2 to 4 feet contained arsenic, cadmium, copper, lead, mercury, and zinc detections greater than their respective Unrestricted Use SCOs and/or Restricted Residential Use SCOs. In a deeper sample from soil boring SB002 at 6 to 8 feet, metals were detected at concentrations less than their respective Unrestricted Use SCOs. Boring SB003 from 3 to 11 feet contained copper, lead, mercury, and zinc detections greater than their respective Unrestricted Use SCOs and/or Restricted Residential Use SCOs. In a deeper sample from soil boring SB003 at 15 to 17 feet, metals were detected at concentrations less than their respective Unrestricted Use SCOs. Lead was detected at a concentration exceeding its respective Unrestricted Use SCO in soil boring SB011 at 0 to 2 feet. A deeper sample collected from soil boring SB011 at 6 to 8 feet, did not have a concentration of lead greater than its MDL.

A total of 33 soil samples were collected for pesticides, PCBs, and herbicide analysis. Herbicides were not detected at concentrations exceeding Unrestricted Use SCOs in these samples. PCBs, including Arochlor-1248 and Arochlor-1254 were detected at concentrations greater than their respective Unrestricted Use SCOs in two soil samples. In addition, total PCBs were detected at concentrations greater than their respective Restricted Residential SCOs in one soil sample, SB005 at 8 to 10 feet. A deeper soil sample collected from SB005 from 12 to 14 feet had detections of PCBs less than their respective Unrestricted Use SCOs. Pesticides, including 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, cis-chlordane, and heptachlor, were detected at concentrations greater than their respective Unrestricted Use SCOs in five of the 33 soil samples.

A total of 33 soil samples were collected for PFAS analysis. Multiple PFAS compounds were detected in soil at the subject property. Concentrations detected were generally low and/or "J" qualified estimated values, which did not exceed Unrestricted Use guidance values and do not appear to be indicative of a source area of PFAS impact on the subject property.

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4.3 Groundwater Quality

Groundwater sampling was performed in accordance with DER-10 and with Section 3.1.2 of the NYSDEC approved RIWP. These groundwater monitoring wells were installed to evaluate groundwater conditions on-site and the condition of groundwater migrating off-site and on-site.

To further characterize subsurface conditions at the subject property, one of the proposed soil borings was converted into a groundwater monitoring well as shown on **Figure 5**. Attempts at installing two additional monitoring wells failed due to several refusal attempts. The groundwater monitoring well was installed utilizing a Geoprobe® direct-push 7822DT drill rig. Non-dedicated sampling equipment was decontaminated in accordance with the procedures specified in Section 4.10 of the RIWP.

Several monitoring wells were previously installed at the subject property and in the surrounding blocks under NYSDEC oversight as part of ESAs related to NYSDEC spill (#93-05122). Approximately 21 of these monitoring wells were installed onsite or on the sidewalks adjacent to the subject property. Seven of these pre-existing groundwater monitoring wells were selected to be sampled along with the installation of the new monitoring wells; however, due to the inability to install two of the new monitoring wells or the presence of light non-aqueous phase liquid (LNAPL) or inaccessibility of pre-existing wells, alternative pre-existing wells were selected. The table below describes which wells were sampled and why pre-selected wells did not have groundwater samples collected.

Monitoring Well	Sampled?	Rationale
MW001	No	Several refusals precluded well installation. Replaced with pre-existing well MW-81.
MW002	Yes	General site characterization.
MW003	No	Equipment needed to get the well installed in the basement could not reach intended depth. Attempted relocation to western end of drive-thru; however, several refusals precluded well installation. Replaced with pre-existing well MW-1.
MW-1	No	Not sampled due to presence of LNAPL.
MW-3	Yes	Replaced MW-89 which was not accessible.
MW-6	Yes	General site characterization.
MW-7	Yes	Replaced MW-89 which was not accessible.
MW-8	Yes	Replaced MW-9 which contained LNAPL.

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Monitoring Well	Sampled?	Rationale
MW-8A	Yes	LNAPL sampled.
MW-9	Yes	LNAPL sampled, groundwater sampling replaced with MW-8.
MW-31	Yes	Replaced MW-94.
MW-80	Yes	LNAPL sampled.
MW-81	Yes	Replaced PWGC-MW001.
MW-82	Yes	General site characterization
MW-84	Yes	General site characterization
MW-86	Yes	General site characterization
MW-89	No	Well damaged, could not collect sample. Replaced with MW-3 and MW-7.
MW-94	No	Well was dry, replaced with MW-31.

4.3.1 Groundwater Monitoring Well Installation and Development

One permanent groundwater monitoring well (MW002) was installed at the subject property at the location of boring SB003. Monitoring well, MW002, was constructed of 2-inch diameter, pre-packed schedule 40 polyvinyl chloride (PVC) casing and screen with 0.010-inch slot. The groundwater monitoring well is screened across the water table with a minimum of 10 feet of screen and solid riser to grade. A gravel pack of No. 2 Morie sand was placed in the annulus around the screen with a 2-foot bentonite seal placed 2 feet above the top of the screened zone. Above the bentonite seal, the annulus around the groundwater monitoring well was filled with #2 sand and/or non-impacted drill cuttings. The groundwater monitoring wells were finished at grade with a flush mount curb box. The groundwater monitoring well construction log is included in **Appendix B**.

Following installation, the newly installed groundwater monitoring well (MW002) was over-pumped to restore the hydraulic properties of the aquifer. Groundwater monitoring well development continued until the turbidity of the groundwater was less than or equal to 50 Nephelometric Turbidity Units (NTUs) or when pH, temperature, and conductivity measurements stabilized. Groundwater monitoring well development water was containerized in a 55-gallon drum for disposal.

The groundwater monitoring well development log is included as **Appendix D**.

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4.3.2 Groundwater Monitoring

Following groundwater monitoring well installation and development, PWGC collected well monitoring field data as shown on **Table 6**. LNAPL was detected in five of the on-site monitoring wells at thicknesses ranging between 0.02 feet and 0.50 feet.

4.3.3 Sampling Protocol

Groundwater samples were collected from 10 groundwater monitoring wells at the subject property (MW002, MW-3, MW-6, MW-7, MW-8, MW-31, MW-81, MW-82, MW-84, and MW-86). Samples were collected using a Waterra hydrolift fitted with disposable high-density polyethylene (HDPE) tubing. Samples were collected in accordance with USEPA's Low Stress (Low Flow) Purging and Sampling Procedure for The Collection of Groundwater Samples from Monitoring Wells (September 2017). A Horiba U-52 multi-parameter water quality meter outfitted with a flow through cell was utilized to monitor field parameters (turbidity, pH, temperature, and conductivity). Upon stabilization of field parameters (three consecutive readings within allowable tolerances), groundwater samples were collected. Non-disposable sampling equipment was decontaminated in accordance with the procedures specified in Section 4.10 of the approved RIWP. Groundwater Monitoring Well Sampling Logs are included as **Appendix E**.

LNAPL samples were also collected by lowering PVC bailers into three monitoring wells (MW-9, MW-80, and MW-8A) and placing the LNAPL into laboratory supplied bottleware.

4.3.4 Sample Analysis

Samples collected during the RI were placed in pre-cleaned, pre-preserved, laboratory supplied glassware and stored on ice in a cooler for transport to the laboratory. Samples were submitted to Alpha. Each groundwater sample was analyzed for the following:

- TCL VOCs by USEPA Method 8260
- TCL SVOCs by USEPA Method 8270
- TCL Pesticides/PCBs by USEPA Method 8081/8082
- TAL Metals by USEPA Method 6010/7471 (filtered and unfiltered)

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- PFAS by USEPA Method 537 Modified
- 1,4-Dioxane by USEPA Method 8270-SIM

Each LNAPL sample was analyzed for petroleum hydrocarbon fingerprint analysis by USEPA 8015D(M).

4.3.5 Analytical Results

Groundwater sample results were compared to the Class GA AWQS specified in TOGS 1.1.1 and the guidance values (GVs) specified in Guidelines for Sampling and Analysis of PFAS under NYSDEC's Part 375 Remedial Programs, June 2021. Groundwater analytical data is summarized in **Tables 7** through **11**; laboratory reports are included as **Appendix C**. A groundwater spider diagram is included as **Figure 6**.

VOCs were detected at concentrations exceeding their respective AWQS in six (MW002, MW-6, MW-8, MW-31, MW-84, and MW-86) of the 10 groundwater samples analyzed. MW002 had a concentration of acetone at 66 µg/L, exceeding its respective AWQS of 50 µg/L. MW-6, MW-8, MW-31, and MW-86 contained concentrations of 1,2,4,5-tetramethylbenzene that exceeded its AWQS of 5 micrograms per liter (µg/L). Concentrations ranged from 7.9 µg/L to 22 µg/L. Benzene was detected in groundwater monitoring wells in exceedance of its AWQS of 1 µg/L in three groundwater samples (MW-31, MW-84, and MW-86). Chloroform was detected at a concentration greater than its AWQS in one groundwater sample (MW-84). Ethylbenzene was detected at a concentration greater than its AWQS in two groundwater samples (MW-8 and MW-31). Isopropylbenzene and n-propylbenzene were detected at a concentration greater than their respective AWQS in three groundwater samples (MW-8, MW-31, and MW-86). Naphthalene was detected at a concentration greater than its AWQS in two groundwater samples (MW-8 and MW-31). In addition, p,m-xylene was detected at a concentration greater than its AWQS in one groundwater samples (MW-31). The five groundwater monitoring wells with exceedances of petroleum related compounds are located on the southern portion of the subject property in the vicinity of the petroleum plume. PCE and TCE were not detected in the wells with the exception of low-level, estimated TCE concentrations in MW-81 and MW-84.

SVOCs were detected at concentrations exceeding their respective AWQSs in each of the 10 groundwater samples. The compounds consisted of PAHs with the highest concentration detected in MW-31 with 29

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µg/L of naphthalene. MW-31 is located closest to the source of the petroleum spill. The remainder of the PAH concentrations were relatively low and appear to be related to a regional issue of low-level SVOCs.

Samples were analyzed for total (unfiltered) and dissolved (filtered) concentrations of metals. Several metals were detected at concentrations greater than AWQSs or GVs in each total groundwater sample. In general, metals were reduced in the dissolved (lab filtered) samples. Dissolved metals in excess of AWQSs were limited to antimony, iron, magnesium, manganese, and/or sodium.

Pesticides were not detected at a concentration greater than their respective MDLs. PCBs were not detected at a concentration greater than their respective AWQSs.

The compound 1,4-Dioxane was detected at a maximum concentration of 0.271 µg/L in MW-3, less than its NYS maximum contaminant level for drinking water. Perfluorooctanoic acid (PFOA) and/or perfluorooctanesulfonic acid (PFOS) were detected in each groundwater sample collected from the subject property. Five groundwater samples contained a PFOS concentration (max 0.0169 µg/L) greater than its guidance value of 0.0027 µg/L and eight samples contained a PFOA concentration (max 0.323 µg/L) greater than its groundwater guidance value of 0.00067 µg/L. The prevalence of PFAS in the groundwater indicates that it's likely the result of a regional issue.

The LNAPL fingerprint analysis indicated that the samples from MW-9 and MW-8A were similar and consistent with a weathered fuel oil #2 / diesel fuel. The fingerprint analysis from MW-80 indicated that it contains a mixture of materials. The first material is likely coal tar/creosote. The second material was not a chromatographic match to any standard in the reference library; however, it eluted in the hydraulic/lubricating/motor oil range of the chromatogram. The analytical laboratory report is included in **Appendix C**.

4.4 Soil Vapor Characterization

To determine whether soil vapor intrusion may be a potential concern for the proposed redevelopment of the subject property, a total of six soil vapor sampling points (SV001 through SV006) and four sub-slab vapor points (SS001 through SS004) were installed to determine whether soil vapor intrusion may be a potential concern for the proposed redevelopment of the subject property. In addition, three indoor air

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samples (IA001 through IA003) were collected. An outdoor ambient air sample was not collected due to an improperly calibrated and/or damaged summa cannister received from the laboratory. Soil vapor sampling points are illustrated in **Figure 8**.

4.4.1 Sample Point Installation

Temporary soil vapor points were installed utilizing a Geoprobe® 7822DT direct-push drill rig for SV001 through SV006 to a depth comparable to the depth of the future development's foundation footings. At each location, a six-inch stainless-steel screen was installed at the base of the sampling point with polyethylene tubing to grade. Coarse sand was placed surrounding the screen and six inches above. The remainder of the soil vapor point annulus was sealed with bentonite grout to the surface.

Soil vapor samples within the existing building footprints (SS001 through SS004) were installed as sub-slab soil vapor samples. They were installed with a hammer drill to a depth of approximately 2 inches below the concrete slab. A length of inert tubing was placed into the borehole to grade. The sampling point was sealed above.

Indoor air samples were placed in the two units that were still occupied at the time of this RI. Two of the indoor air samples were collected from within the auto body shop and one was collected from within the deli. These indoor samples were co-located with sub-slab vapor samples. The sub-slab vapor sample that was co-located with the deli was actually collected in the adjacent, vacant unit as close to the deli as possible as drilling within the active deli was not practical. The indoor air samples were collected at a height of 3 to 5 feet above the floor to proximate the breathing zone.

4.4.2 Sampling Protocol

Soil vapor samples were collected approximately 24 hours after sampling points were installed. A tracer gas (helium) was utilized to test the seal around the soil vapor points. Once the integrity of the seal was confirmed at each location, three volumes of air were extracted from each point prior to sample collection with a flow rate of less than 0.2 liters/minute. Methodologies used for soil vapor assessment conformed to the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006.

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4.4.3 Sample Analysis

Soil vapor samples were collected using batch certified 6.0-liter SUMMA vacuum canisters fitted with eight-hour flow control regulators with a flow rate of less than 0.2 liters/minute. Samples were submitted to Alpha. Each soil vapor sample was analyzed for VOCs by USEPA Method TO-15. In addition, IA001, IA002, and IA003 were also analyzed for VOCs by USEPA Method TO-15-SIM.

4.4.4 Analytical Results

Soil vapor sample results are presented as data summaries as NYSDOH has not established standards or guidance values.

Multiple VOCs were detected in each of the indoor air samples. PCE was detected in each of the three indoor air samples (max concentration of 0.705 µg/m^3); TCE, DCE, and VC were not detected at concentrations greater than MDLs in the indoor air samples. Benzene, toluene, ethylbenzene, and xylene (BTEX) compounds were detected in each of the three samples, as well. The higher concentrations were observed in IA001 and IA002 in the auto body shop with lower concentrations detected in the deli. Of the BTEX compounds, toluene was detected at the highest concentration of 1,680 µg/m^3 in IA001.

Multiple VOCs were detected in each sub-slab soil vapor sample collected from the subject property. PCE was detected in three of the four sub-slab soil vapor samples (max concentration of 6.59 µg/m^3); TCE, DCE, and VC were not detected at concentrations greater than MDLs. BTEX compounds were detected in each of the four samples; toluene was detected at the highest concentration of 13,000 µg/m^3 in SS001 located beneath the auto body shop. The remainder of the sub-slab vapor concentrations were significantly less than SS001's toluene concentration.

Multiple VOCs were detected in each of the soil vapor samples collected from the subject property. PCE, TCE, DCE, and VC were not detected at concentrations greater than their MDLs in each of the six soil vapor samples. Benzene and ethylbenzene were also not detected at concentrations greater than MDLs. Xylene was detected in one sample (15.7 µg/m^3) and toluene was detected in four of the samples (max concentration of 12 µg/m^3). The soil vapor samples were generally collected in the area of the eastern

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neighboring petroleum spill; these analytical results indicate that the contamination from the petroleum spill appears to have minimal volatilization.

Soil vapor and ambient air analytical data are summarized in **Table 12** and laboratory reports are included as **Appendix C**. A spider diagram of soil vapor data is included as **Figure 9**.

4.5 Discussion of Results

The subject property appears to contain elevated SVOCs, metals, pesticides, and/or PCBs primarily in the top 8 to 11 feet bgs of soil across the subject property. In addition, petroleum impacted soils were observed near the smear zone and adjacent to the known leaking UST at the eastern neighboring property.

There appear to be two types of LNAPL present at the site in two different areas; the LNAPL near the adjacent property's leaking UST is consistent with weathered fuel oil #2/diesel fuel and the LNAPL detected north of the Dunkin Donuts in the drive-thru is a mixture likely consistent with coal tar/creosote and hydraulic/lubricating/motor oil. The highest VOC or SVOC impacts to the groundwater are observed on the south side of the subject property near the leaking UST on the neighboring property to the east. The highest concentration of a VOC or SVOC detected in this area is naphthalene (78 µg/L) in MW-31 which is closest to the eastern neighboring property.

Petroleum related compounds were also detected at elevated concentrations in the soil vapor. The highest concentrations were identified in a sub-slab sample under the northeastern portion of the subject property. Generally, the remainder of the petroleum and chlorinated solvent compounds were detected at low concentrations. The indoor air samples, particularly the two collected within the auto body shop, did contain elevated concentrations of petroleum compounds that is likely due to the current usage of this space which includes the usage of several petroleum compounds.

4.6 Community Air Monitoring and Reporting

Community air monitoring was performed daily for the subject property during soil disturbance events. This included monitoring the site perimeter for dust and volatile organic vapors. The exclusion zone action

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level of 150 µg/m^3 greater than background for dust and 5 ppm for volatile organic vapors in the breathing zone were enforced during work.

One perimeter air monitoring station (downwind) was setup to continuously monitor air quality. The station was equipped with a dust meter and organic vapor meter. The meters were programmed to output results based on a 15-minute real-time average. The station was positioned based on the area(s) of the subject property being disturbed and current weather conditions. Field data sheets for the community air monitoring are included within the daily field reports and were submitted to the NYSDEC.

Daily reports with photographic logs were completed at the end of each day by the head field staff in charge for that day and reviewed by the PWGC project manager. There were no exceedances of dust or VOCs migrating off-site at the property boundaries. Copies of the daily field reports inclusive of air monitoring results are included in **Appendix F**.

4.7 Investigation Derived Waste

Investigation derived waste has been containerized and stored on-site pending disposal. Following disposal, an update to this report will be issued along with waste manifests.

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5.0 QUALITY ASSURANCE / QUALITY CONTROL

The overall quality assurance quality control (QA/QC) objective for the field investigation was to develop and implement procedures that provide data of known and documented quality. QA/QC characteristics for data include precision, accuracy, representativeness, completeness, and comparability. The purpose of the QA/QC activities developed for this subject property were to verify the integrity of the work performed and data collected is of the appropriate type and quality for the intended use.

5.1 QA/QC Samples

To assess the adequacy of the sample collection and decontamination procedures performed in the field, QA/QC samples were collected and analyzed throughout the field sampling program. In general, QA/QC samples confirmed that the procedures performed in the field were consistent and acceptable. QA/QC samples included trip blanks, field blanks, blind duplicates, matrix spike (MS), and matrix spike duplicates (MSD). Types and frequencies of field QA/QC samples are listed below.

Type	Frequency
Trip Blank	One per day (when VOC samples collected)
Field Blank	One per day when PFAS samples collected
Equipment Blank	One per 20 samples per matrix
Blind Duplicate	One per 20 samples per matrix
MS/MSD	One per 20 samples per matrix

During the RI, four trip blanks, four field blanks, and four equipment blanks and three blind duplicates were prepared and submitted for analysis in accordance with the project Quality Assurance Project Plan (QAPP).

The results of the QA/QC sampling indicates that sample collection procedures and/or ambient conditions are unlikely to have significantly impacted environmental samples collected from the subject property during implementation of the RI.

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5.2 Data Usability and Validation

In accordance with the approved RIWP, independent third-party data validation was performed by Laboratory Data Consultants, Inc., of Carlsbad, California. Full data validation was performed on 5% of the data generated or one sample per Sample Delivery Group (SDG), whichever was greater. Remaining data received a summary validation as detailed in the Data Usability Summary Report (DUSR). A copy of the data validation is included as **Appendix G**.

Data were deemed acceptable by the data validator, with minor qualifications due to sample matrix or laboratory quality control outliers, with the following exceptions:

- The SVOC non-detect results for phenol, 2-chlorophenol, 2-methylphenol, 2-nitrophenol, 2,4-dimethylphenol, 2,4-dichlorophenol, 2,4,6-trichlorophenol, 2,4,5-trichlorophenol, 2,4-dinitrophenol, 4-nitrophenol, pentachlorophenol, benzoic acid, 3&4-methylphenol, p-chloro-mcresol, and 4,6-dinitro-8-cresol in samples SB001 0-2 and SB001 0-2RE were rejected (R) due to low surrogate recoveries. The results are not usable for project objectives, which may have a major impact on the data usability.
- The PAH non-detect results for pentachlorophenol in sample MW-84 were rejected (R) due to low LCS/LCSD recoveries. The results are not usable for project objectives, which may have a major impact on the data usability.
- The PAH non-detect results for pentachlorophenol in sample MW-86 were rejected (R) due to low LCS/LCSD recoveries. The results are not usable for project objectives, which may have a major impact on the data usability.

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6.0 CONCEPTUAL TRANSPORT MODEL

Based upon the findings of this RI, a conceptual model detailing the transport of contaminants has been developed. Soils beneath the subject property appear to contain impacted petroleum related contamination and are additionally impacted with SVOCs, metals, pesticides, and PCBs within the first 11 feet bgs. Groundwater with concentrations of VOCs, SVOCs, metals, and PFAS greater than AWQS or GVs is present and may be as a result of migration of contaminants from on-site soils and/or from off-site sources.

6.1 Surface Water

There is no surface water on the subject property. The nearest surface water body is the Gowanus Canal, located approximately 0.3-mile northwest of the subject property. Based upon the distance, it does not appear that contaminants on the subject property have impacted the surface water body.

6.2 Fish and Wildlife Resources

PWGC evaluated potential impact to fish and wildlife resources in accordance with DER-10 Section 3.10, a Fish and Wildlife Resources Impact Analysis (FWRIA), and DER-10 Appendix 3C, FWRIA Decision Key. A summary of the FWRIA is detailed below; a copy of the Decision Key is included in **Appendix H**.

Section 1: Is the site or area of concern a discharge or spill event? **Yes**. *For a "Yes" response, proceed to Section 13.*

Section 13: Does the contamination at the site or area of concern have the potential to migrate to, erode into or otherwise impact any on-site or off-site habitat of endangered, threatened or special concern species or other fish and wildlife resource? **No**. *For a "No" response, proceed to Section 14.*

Section 14: No Fish and Wildlife Resources Impact Analysis needed.

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7.0 QUALITATIVE HUMAN EXPOSURE ASSESSMENT

The overall purpose of the Qualitative Human Exposure Assessment is to evaluate and document how people might be exposed to contaminants on the subject property and to identify and characterize the potentially exposed population(s) now and under reasonably anticipated future use of the subject property. To evaluate if an exposure pathway exists, the exposure assessment should assess the quality, representativeness, and adequacy of the available data. In addition, the qualitative exposure assessment should consider the nature of populations currently exposed or that have the potential to be exposed to subject property contaminants both on the subject property and off the subject property and describe the reasonably anticipated future land use of the subject property and affected off subject property areas.

7.1 Contaminant Source

The subject property is located at 731 to 747 4th Avenue, Brooklyn, New York. Former Lot 7 was first developed prior to 1888 and was utilized for residential purposes from at least 1888 to 1906, and commercial/industrial purposes, including a junk yard, metal manufacturer, and an auto repair shop from 1906 to present. Former Lot 1 was first developed between 1906 and 1926, utilized as an auto garage and filling station for almost eight decades. The lot was redeveloped into a Dunkin Donuts around 2004.

Investigations at the subject property have identified the concentrations of VOCs, SVOCs, metals, pesticides, and PCBs exceeding Unrestricted Use and/or Restricted Residential Use SCOs scattered throughout the subject property with the highest concentrations detected in the northern portion of the subject property.

These elevated concentrations of contaminants were identified within the fill layer and also appear to be related to historical usage of the subject property.

7.1.1 Contaminant Release and Transport

Elevated levels of VOCs, SVOCs, metals, pesticides, and PCBs are present in subsurface soils at the subject property. The highest concentrations were observed on the northern portion of the subject property. Significant groundwater impact has not been observed leaving the subject property with the exception of

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petroleum related contamination and LNAPL from the eastern neighboring spill. Transport mechanisms for identified impact include soil transportation as dust or suspended in storm runoff and migration of groundwater or soil vapor downgradient. As the subject property is currently capped with pavement or concrete, impacted shallow soils at the subject property are contained. There are currently no excavations on the subject property that would allow exposure to soil or groundwater at the subject property.

VOCs in soil vapor appear to be emanating from subsurface soil contamination although additional off-site sources cannot be ruled out due to the industrial nature of nearby properties. Elevated concentrations were observed near the northern portion of the subject property.

7.2 Points and Routes of Exposure

Possible exposure pathways are by ingestion of impacted soil, inhalation of dust or vapors from impacted soils, or dermal exposure to impacted soil by a person on the subject property. Currently, exposures are mitigated by the presence of concrete slabs across the subject property. During remediation, potential exposures would be limited to periods when ground intrusive work is being performed. Exposures to impacted soils will be mitigated during remediation through the presence of a locked perimeter fence, use of personal protective equipment (PPE) for onsite workers, and implementation of a Community Air Monitoring Plan (CAMP) to protect the downwind community. As the goal for remediation at the subject property is to achieve a Track 1 cleanup (i.e., removal of soils exceeding Unrestricted Use SCOs), it is not expected that exposure pathways will exist post-remediation; in the event that a Track 1 cleanup is not achieved, post-remediation exposures will likely be mitigated by a composite cover system at the subject property.

Groundwater at the subject property is impacted with VOCs, SVOCS, metals, and PFAS. Regional groundwater beneath the subject property flows towards the northwest and may be influenced by localized dewatering near the subway tunnel beneath 4th Avenue. Groundwater in the vicinity of the subject property is not used as a potable water source and excavation for remediation or construction is not anticipated to extend into the groundwater table; as such, possible exposure pathways (ingestion, inhalation, or dermal exposure) are not anticipated. Identified groundwater impact appears likely to be

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related to a regional issue and may also be related to historical usage of the subject property and/or the eastern neighboring petroleum spill.

7.3 Characterization of Potential Receptor Populations

The subject property is mostly vacant (two occupied units) and the buildings are secured with lock doors and/or gates which limits human receptors to occasional site visitors and workers involved in redevelopment activities. During remediation and site development, human receptors will be limited to construction workers and related personnel. Potential off-site receptors include workers and residents in surrounding commercial and residential properties.

7.4 Qualitative Human Health Exposure Assessment Summary Table

The following table provides a summary of the routes of exposure.

Environmental Media & Exposure Route	Human Assessment
Direct contact with surface soils	• Public access is restricted by fencing. • The source area soils will be removed during remediation. • Direct contact to surface soils may occur during ground intrusive work at the subject property. Such contact will be managed during remediation by implementing a Health & Safety Plan (HASP) and CAMP.
Direct contact with subsurface soils	• Direct contact to subsurface soils may occur during ground intrusive work at the subject property. Such contact will be managed during remediation by implementing a HASP and CAMP.
Direct contact with groundwater	• Direct contact to groundwater is unlikely to occur during ground intrusive work at the subject property; however, in the event that direct contact with the groundwater is possible, such contact will be managed during remediation by implementing a HASP and CAMP.
Ingestion of groundwater	• Groundwater is not utilized for drinking water. Drinking water is supplied by the municipal water supply. • There are no known domestic water supply wells in the area.
Inhalation of air	• The source area soils and grossly contaminated media will be removed during remediation. • Workers can come into contact if they complete ground intrusive work at the subject property. Such contact will be managed during remediation by implementing a HASP and CAMP.

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8.0 CONCLUSIONS AND RECOMMENDATIONS

8.1 Remedial Investigation

PWGC prepared an RIWP dated February 2022 that was approved by NYSDEC. The purpose of the RI was to delineate soil, groundwater, and soil vapor impact within the subject property boundary and to determine what, if any, impact may have migrated off-site. To perform this work, the following tasks were completed:

- The geophysical survey performed at the subject property did not identify subsurface anomalies in the areas scanned.
- A total of 11 soil borings were installed at the subject property and a total of 33 soil samples were analyzed.
    - Soils beneath the subject property appear to contain SVOCs, metals, pesticides, and PCBs at concentrations exceeding applicable standards and are primarily contained within the first 11 feet bgs.
    - Soils with elevated PID readings (greater than 50 parts per million) were observed in two boring locations, SB007 from 5 feet through 20 feet below grade and in SB011 from 15 feet through 20 feet below grade.
    - Herbicides and PFAS did not exceed Unrestricted Use SCOs or guidance values.
- One permanent groundwater monitoring well was installed and nine existing onsite groundwater monitoring wells were utilized to determine groundwater quality beneath the subject property.
    - VOCs were detected at concentrations exceeding their respective AWQS in six (MW002, MW-6, MW-8, MW-31, MW-84, and MW-86) of the 10 groundwater samples analyzed. The five groundwater monitoring wells with exceedances of petroleum related compounds are located on the southern portion of the subject property in the vicinity of the eastern neighboring petroleum spill.
    - SVOCs were detected at low level and sometimes estimated concentrations exceeding their respective AWQSs in each of the 10 groundwater samples.

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- Dissolved metals in excess of AWQSs were limited to antimony, iron, magnesium, manganese, and/or sodium. These metals are generally found in background concentrations of groundwater within the region.
- Pesticides, PCBs, and 1,4-dioxane were detected at concentrations less than their regulatory groundwater standards.
- PFOA and/or PFOS were detected in each groundwater sample collected from the subject property. Five groundwater samples contained a PFOS concentration greater than its guidance value and eight samples contained a PFOA concentration greater than its groundwater guidance value. As PFOS and PFOA were identified in groundwater throughout the subject property, this indicates that the PFAS contamination is likely a regional issue and not related to historical site usage.
- LNAPL results identified a weathered fuel oil #2/diesel fuel in the vicinity of the leaking UST at the adjacent property and a mixture of coal tar/creosote and hydraulic/lubricating/motor oil beneath the drive-thru north of the Dunkin Donuts.
- There does not appear to be significant groundwater contamination migrating off-site from on-site contamination.

- Four sub-slab and six soil vapor samples were collected at the subject property, as well as three indoor air samples.
  - The indoor air samples contained minor detections of petroleum compounds and chlorinated solvents. Generally, the higher concentrations were observed in the active auto body shop compared to the sample from the deli.
  - Sub-slab soil vapor samples generally contained the highest concentrations of petroleum compounds beneath the active auto body shop. PCE was detected at low-level concentrations in three of the four sub-slab soil vapor samples; other chlorinated compounds were not detected.
  - Soil vapor samples generally contained low levels of petroleum compounds and did not contain detectable concentrations of chlorinated compounds.

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- The fate and transport of contaminants identified during the RI is a function of the properties of the individual contaminants, the geology and hydrogeology of the subject property, and available pathways for the contaminants to migrate. Elevated concentrations of VOCs, SVOCs, metals, pesticides, and PCBs are present in subsurface soils at the subject property. Significant groundwater impact from on-site contamination has not been observed leaving the subject property. Transport mechanisms for identified impact include soil transportation as dust or suspended in storm runoff and migration of groundwater or soil vapor downgradient. As the subject property is currently capped with pavement or concrete, impacted shallow soils at the subject property are contained. There are currently no excavations on the subject property that would allow exposure to soil or groundwater at the subject property. VOCs in soil vapor appear to be emanating from subsurface soil contamination although additional off-site sources cannot be ruled out due to the industrial nature of nearby properties. Elevated concentrations were observed near the northern portion of the subject property and could potentially be migrating off-site.
- Possible subject property exposure pathways are by ingestion, inhalation, or dermal exposure by a person on the subject property. The subject property is currently capped with various buildings, asphalt and/or concrete which largely negates these exposure pathways. Prior to the cap being removed from the subject property, a locked perimeter fence will be installed which will limit access to the subject property to authorized personnel. As such, potential exposures would be limited to periods when ground intrusive work is being performed. Proposed remediation of the subject property will then include re-capping the property with impervious surfaces and/or clean fill material. There are no production wells or groundwater use on the subject property, so there is no route for ingestion or dermal exposure to groundwater except for when ground intrusive work is occurring if it extends to the groundwater table.

8.2 Recommendations

Based upon the observations and data generated during the RI, PWGC recommends preparing a Remedial Action Work Plan (RAWP) which will include potential mitigation measures to address identified impacts at the subject property. The RAWP should address the following Remedial Action Objectives (RAOs):

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Remedial Action Objectives		
Matrix	Public Health Protection	Environmental Protection
Soil	Prevent ingestion/direct contact with contaminated soil. Prevent inhalation of or exposure to contaminants volatilizing from contaminated soil.	Prevent migration of contaminants that would result in groundwater or surface water contamination.
Groundwater	Prevent ingestion of groundwater containing contaminant levels exceeding drinking water standards. Prevent contact with, or inhalation of, volatiles emanating from contaminated groundwater.	Restore groundwater aquifer, to the extent practicable, to pre-disposal/pre-release conditions. Remove the source of groundwater contamination.
Soil Vapor	Mitigate potential impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings.	Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at the subject property.

The Applicant proposes to demolish the existing structures at the proposed development Site and construct a new 14-story mixed-use development. The building will occupy the entirety of the Site on the first floor. A partial cellar will be constructed that will occupy approximately 11,000 square feet, extending approximately 60 feet east and 185 feet north of the southwest property corner.

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FIGURES

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VICINITY MAP

731-747 4TH AVE
BROOKLYN, NY

0 ¼ ½ ¾ 1 Miles

Project:	TOT2101
Date:	4/14/2022
Designed by:	LS
Drawn by:	JCG
Approved by:	LS
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SITE PLAN

731-747 4th Ave
Brooklyn, NY

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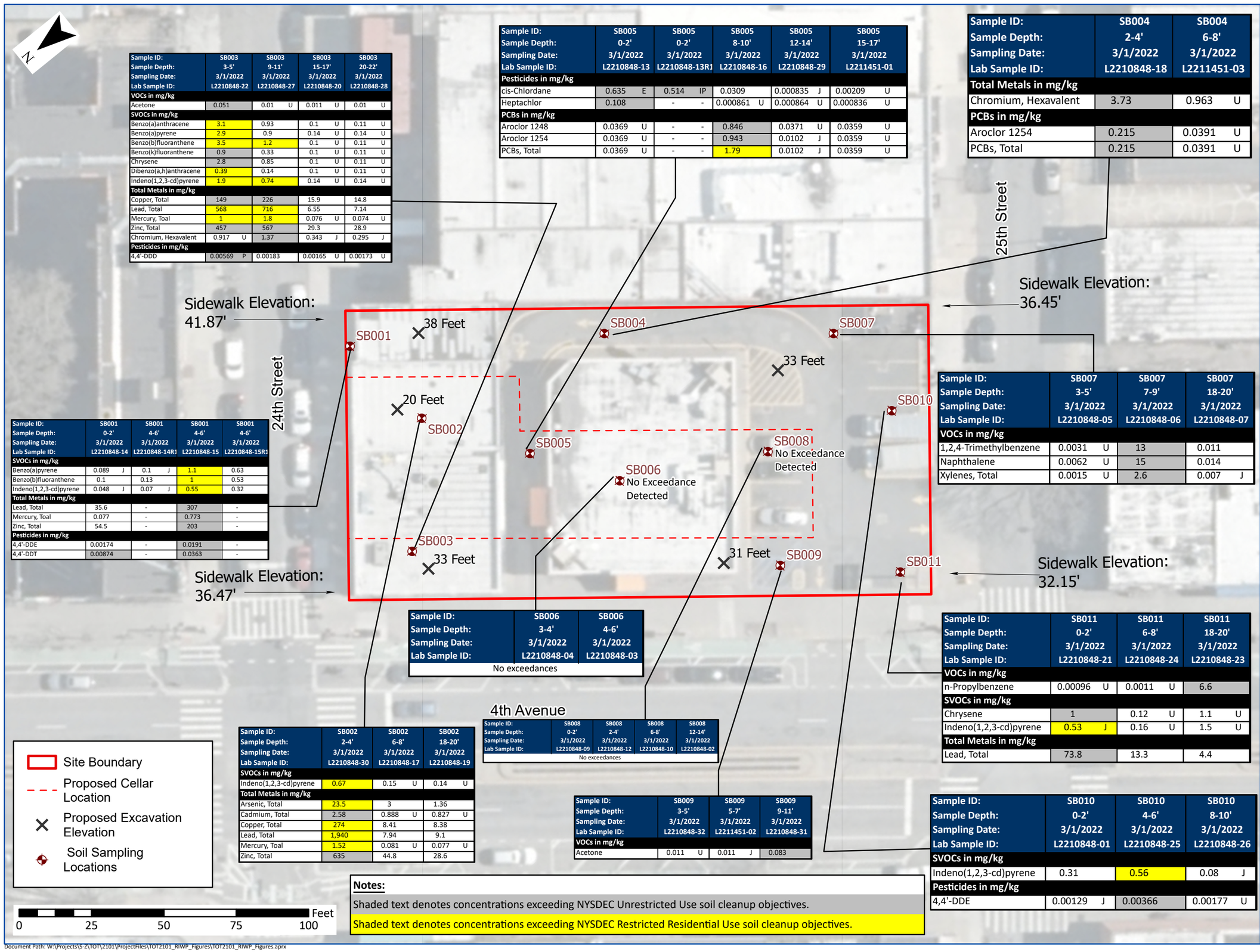
Project:	TOT2101	Designed by:	JL
Date:	4/14/2022	Drawn by:	OA
Scale:	AS SHOWN	Approved by:	JL

Soil Sampling Locations

731-747 4th Ave
Brooklyn, NY

FIGURE NO:

3



Sample ID:	SB003	SB003	SB003	SB003
Sample Depth:	3-5'	9-11'	15-17'	20-22'
Sampling Date:	3/1/2022	3/1/2022	3/1/2022	3/1/2022
Lab Sample ID:	L2210848-22	L2210848-27	L2210848-20	L2210848-28
VOCs in mg/kg				
Acetone	0.051	0.01 U	0.011 U	0.01 U
SVOCs in mg/kg				
Benzo(a)anthracene	3.1	0.93	0.1 U	0.11 U
Benzo(a)pyrene	2.9	0.9	0.14 U	0.14 U
Benzo(b)fluoranthene	3.5	1.2	0.1 U	0.11 U
Benzo(k)fluoranthene	0.9	0.33	0.1 U	0.11 U
Chrysene	2.8	0.85	0.1 U	0.11 U
Dibenzo(a,h)anthracene	0.39	0.14	0.1 U	0.11 U
Indeno(1,2,3-cd)pyrene	1.9	0.74	0.14 U	0.14 U
Total Metals in mg/kg				
Copper, Total	149	226	15.9	14.8
Lead, Total	568	716	6.55	7.14
Mercury, Toal	1	1.8	0.076 U	0.074 U
Zinc, Total	457	567	29.3	28.9
Chromium, Hexavalent	0.917 U	1.37	0.343 J	0.295 J
Pesticides in mg/kg				
4,4'-DDD	0.00569 P	0.00183	0.00165 U	0.00173 U

Sample ID:	SB005	SB005	SB005	SB005	SB005
Sample Depth:	0-2'	0-2'	8-10'	12-14'	15-17'
Sampling Date:	3/1/2022	3/1/2022	3/1/2022	3/1/2022	3/1/2022
Lab Sample ID:	L2210848-13	L2210848-13RJ	L2210848-16	L2210848-29	L2211451-01
Pesticides in mg/kg					
cis-Chlordane	0.635 E	0.514 IP	0.0309	0.000835 J	0.00209 U
Heptachlor	0.108	- -	0.000861 U	0.000864 U	0.000836 U
PCBs in mg/kg					
Aroclor 1248	0.0369 U	- -	0.846	0.0371 U	0.0359 U
Aroclor 1254	0.0369 U	- -	0.943	0.0102 J	0.0359 U
PCBs, Total	0.0369 U	- -	1.79	0.0102 J	0.0359 U

Sample ID:	SB004	SB004
Sample Depth:	2-4'	6-8'
Sampling Date:	3/1/2022	3/1/2022
Lab Sample ID:	L2210848-18	L2211451-03
Total Metals in mg/kg		
Chromium, Hexavalent	3.73	0.963 U
PCBs in mg/kg		
Aroclor 1254	0.215	0.0391 U
PCBs, Total	0.215	0.0391 U

Sample ID:	SB007	SB007	SB007
Sample Depth:	3-5'	7-9'	18-20'
Sampling Date:	3/1/2022	3/1/2022	3/1/2022
Lab Sample ID:	L2210848-05	L2210848-06	L2210848-07
VOCs in mg/kg			
1,2,4-Trimethylbenzene	0.0031 U	13	0.011
Naphthalene	0.0062 U	15	0.014
Xylenes, Total	0.0015 U	2.6	0.007 J

Sample ID:	SB001	SB001	SB001	SB001
Sample Depth:	0-2'	4-6'	4-6'	4-6'
Sampling Date:	3/1/2022	3/1/2022	3/1/2022	3/1/2022
Lab Sample ID:	L2210848-14	L2210848-14RJ	L2210848-15	L2210848-15RJ
SVOCs in mg/kg				
Benzo(a)pyrene	0.089 J	0.1 J	1.1	0.63
Benzo(b)fluoranthene	0.1	0.13	1	0.53
Indeno(1,2,3-cd)pyrene	0.048 J	0.07 J	0.55	0.32
Total Metals in mg/kg				
Lead, Total	35.6	-	307	-
Mercury, Toal	0.077	-	0.773	-
Zinc, Total	54.5	-	203	-
Pesticides in mg/kg				
4,4'-DDE	0.00174	-	0.0191	-
4,4'-DDT	0.00874	-	0.0363	-

Sample ID:	SB006	SB006
Sample Depth:	3-4'	4-6'
Sampling Date:	3/1/2022	3/1/2022
Lab Sample ID:	L2210848-04	L2210848-03
No exceedances		

Sample ID:	SB008	SB008	SB008	SB008
Sample Depth:	0-2'	2-4'	6-8'	12-14'
Sampling Date:	3/1/2022	3/1/2022	3/1/2022	3/1/2022
Lab Sample ID:	L2210848-09	L2210848-12	L2210848-10	L2210848-02
No exceedances				

Sample ID:	SB002	SB002	SB002
Sample Depth:	2-4'	6-8'	18-20'
Sampling Date:	3/1/2022	3/1/2022	3/1/2022
Lab Sample ID:	L2210848-30	L2210848-17	L2210848-19
SVOCs in mg/kg			
Indeno(1,2,3-cd)pyrene	0.67	0.15 U	0.14 U
Total Metals in mg/kg			
Arsenic, Total	23.5	3	1.36
Cadmium, Total	2.58	0.888 U	0.827 U
Copper, Total	274	8.41	8.38
Lead, Total	1,940	7.94	9.1
Mercury, Toal	1.52	0.081 U	0.077 U
Zinc, Total	635	44.8	28.6

Sample ID:	SB009	SB009	SB009
Sample Depth:	3-5'	5-7'	9-11'
Sampling Date:	3/1/2022	3/1/2022	3/1/2022
Lab Sample ID:	L2210848-32	L2211451-02	L2210848-31
VOCs in mg/kg			
Acetone	0.011 U	0.011 J	0.083

Sample ID:	SB011	SB011	SB011
Sample Depth:	0-2'	6-8'	18-20'
Sampling Date:	3/1/2022	3/1/2022	3/1/2022
Lab Sample ID:	L2210848-21	L2210848-24	L2210848-23
VOCs in mg/kg			
n-Propylbenzene	0.00096 U	0.0011 U	6.6
SVOCs in mg/kg			
Chrysene	1	0.12 U	1.1 U
Indeno(1,2,3-cd)pyrene	0.53 J	0.16 U	1.5 U
Total Metals in mg/kg			
Lead, Total	73.8	13.3	4.4

Sample ID:	SB010	SB010	SB010
Sample Depth:	0-2'	4-6'	8-10'
Sampling Date:	3/1/2022	3/1/2022	3/1/2022
Lab Sample ID:	L2210848-01	L2210848-25	L2210848-26
SVOCs in mg/kg			
Indeno(1,2,3-cd)pyrene	0.31	0.56	0.08 J
Pesticides in mg/kg			
4,4'-DDE	0.00129 J	0.00366	0.00177 U

Notes:

Shaded text denotes concentrations exceeding NYSDEC Unrestricted Use soil cleanup objectives.

Shaded text denotes concentrations exceeding NYSDEC Restricted Residential Use soil cleanup objectives.

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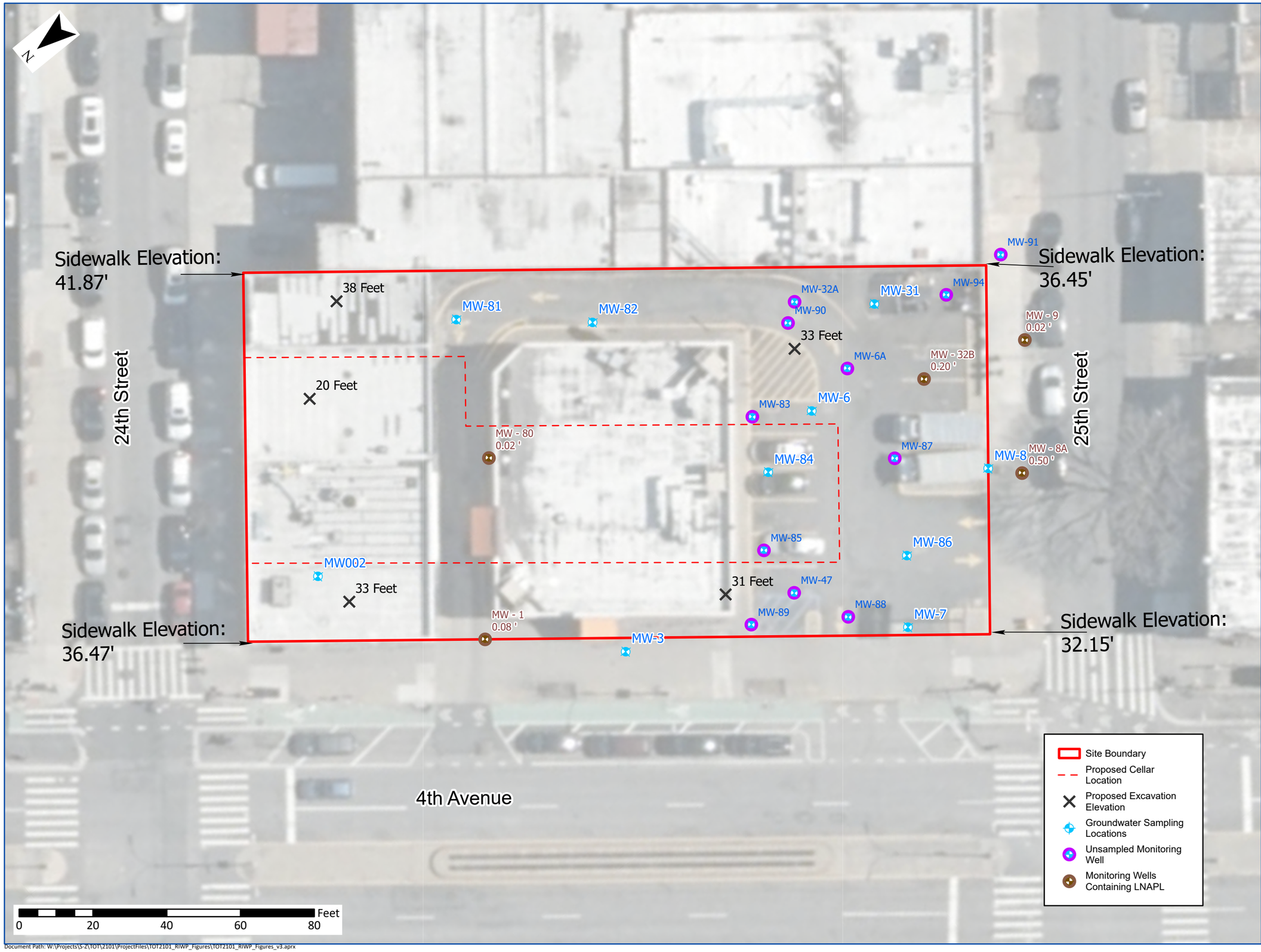
Project:	TOT2101	Designed by:	JL
Date:	4/26/2022	Drawn by:	OA
Scale:	AS SHOWN	Approved by:	JL

Soil Sampling Exceedances

731-747 4th Ave
Brooklyn, NY

FIGURE NO:

4



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Project:	TOT2101	Designed by:	JL
Date:	7/28/2022	Drawn by:	OA
Scale:	AS SHOWN	Approved by:	JL

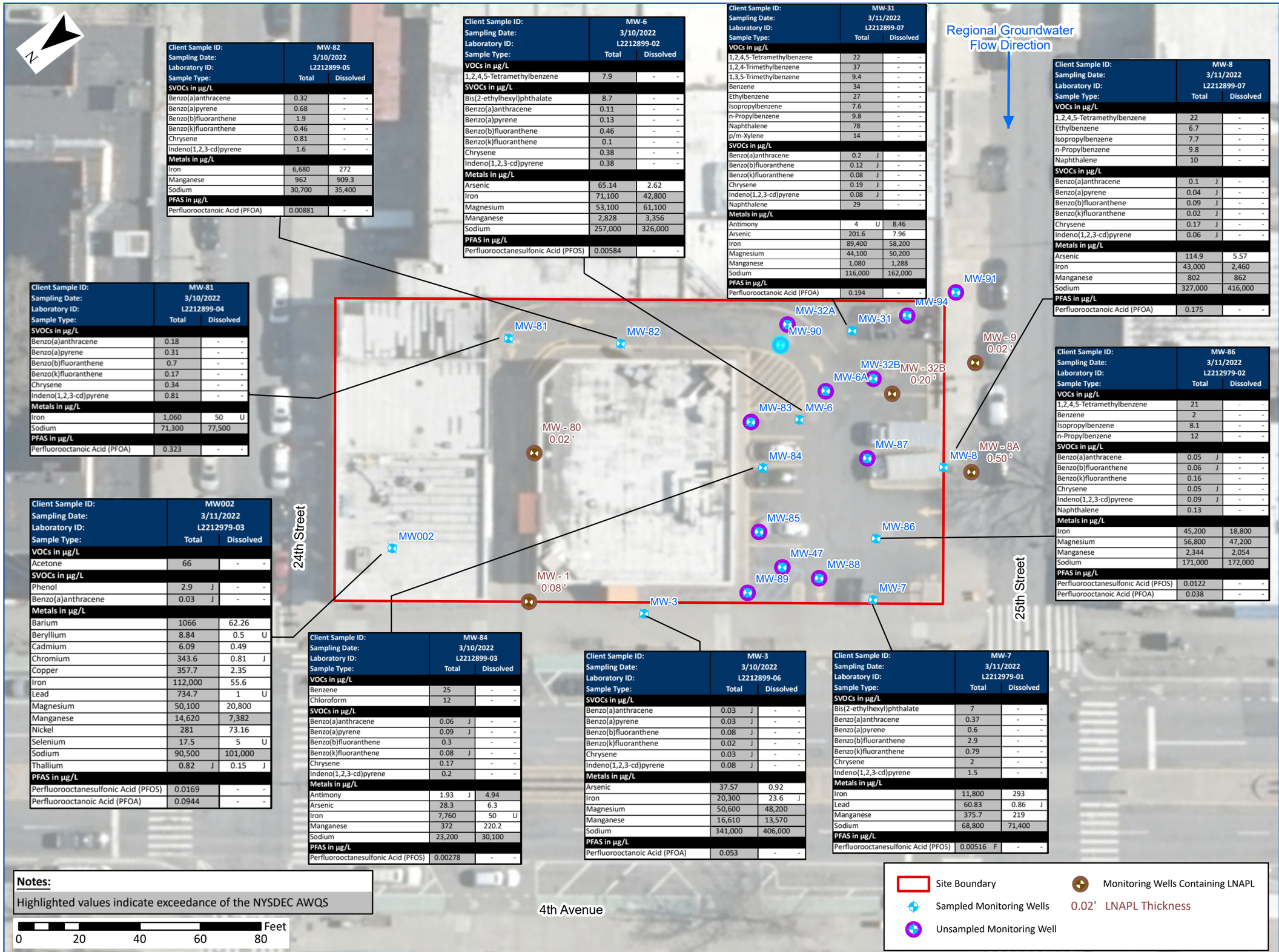
Groundwater Sampling Locations

731-737 4th Ave
Brooklyn, NY

FIGURE NO:

5

Document Path: W:\Projects\S-Z\TOT\2101\ProjectFiles\TOT2101_RIWP_Figures\TOT2101_RIWP_Figures_v3.aprx



Client Sample ID:	MW-82	
Sampling Date:	3/10/2022	
Laboratory ID:	L2212899-05	
Sample Type:	Total	Dissolved
SVOCs in µg/L		
Benzo(a)anthracene	0.32	- -
Benzo(a)pyrene	0.68	- -
Benzo(b)fluoranthene	1.9	- -
Benzo(k)fluoranthene	0.46	- -
Chrysene	0.81	- -
Indeno(1,2,3-cd)pyrene	1.6	- -
Metals in µg/L		
Iron	6,680	272
Manganese	962	909.3
Sodium	30,700	35,400
PFAS in µg/L		
Perfluorooctanoic Acid (PFOA)	0.00881	- -

Client Sample ID:	MW-6	
Sampling Date:	3/10/2022	
Laboratory ID:	L2212899-02	
Sample Type:	Total	Dissolved
VOCs in µg/L		
1,2,4,5-Tetramethylbenzene	7.9	- -
SVOCs in µg/L		
Bis(2-ethylhexyl)phthalate	8.7	- -
Benzo(a)anthracene	0.11	- -
Benzo(a)pyrene	0.13	- -
Benzo(b)fluoranthene	0.46	- -
Benzo(k)fluoranthene	0.1	- -
Chrysene	0.38	- -
Indeno(1,2,3-cd)pyrene	0.38	- -
Metals in µg/L		
Arsenic	65.14	2.62
Iron	71,100	42,800
Magnesium	53,100	61,100
Manganese	2,828	3,356
Sodium	257,000	326,000
PFAS in µg/L		
Perfluorooctanesulfonic Acid (PFOS)	0.00584	- -

Client Sample ID:	MW-31	
Sampling Date:	3/11/2022	
Laboratory ID:	L2212899-07	
Sample Type:	Total	Dissolved
VOCs in µg/L		
1,2,4,5-Tetramethylbenzene	22	- -
1,2,4-Trimethylbenzene	37	- -
1,3,5-Trimethylbenzene	9.4	- -
Benzene	34	- -
Ethylbenzene	27	- -
Isopropylbenzene	7.6	- -
n-Propylbenzene	9.8	- -
Naphthalene	78	- -
p/m-Xylene	14	- -
SVOCs in µg/L		
Benzo(a)anthracene	0.2 J	- -
Benzo(b)fluoranthene	0.12 J	- -
Benzo(k)fluoranthene	0.08 J	- -
Chrysene	0.19 J	- -
Indeno(1,2,3-cd)pyrene	0.08 J	- -
Naphthalene	29	- -
Metals in µg/L		
Antimony	4 U	8.46
Arsenic	201.6	7.96
Iron	89,400	58,200
Magnesium	44,100	50,200
Manganese	1,080	1,288
Sodium	116,000	162,000
PFAS in µg/L		
Perfluorooctanoic Acid (PFOA)	0.194	- -

Client Sample ID:	MW-8	
Sampling Date:	3/11/2022	
Laboratory ID:	L2212899-07	
Sample Type:	Total	Dissolved
VOCs in µg/L		
1,2,4,5-Tetramethylbenzene	22	- -
Ethylbenzene	6.7	- -
Isopropylbenzene	7.7	- -
n-Propylbenzene	9.8	- -
Naphthalene	10	- -
SVOCs in µg/L		
Benzo(a)anthracene	0.1 J	- -
Benzo(a)pyrene	0.04 J	- -
Benzo(b)fluoranthene	0.09 J	- -
Benzo(k)fluoranthene	0.02 J	- -
Chrysene	0.17 J	- -
Indeno(1,2,3-cd)pyrene	0.06 J	- -
Metals in µg/L		
Arsenic	114.9	5.57
Iron	43,000	2,460
Manganese	802	862
Sodium	327,000	416,000
PFAS in µg/L		
Perfluorooctanoic Acid (PFOA)	0.175	- -

Client Sample ID:	MW-81	
Sampling Date:	3/10/2022	
Laboratory ID:	L2212899-04	
Sample Type:	Total	Dissolved
SVOCs in µg/L		
Benzo(a)anthracene	0.18	- -
Benzo(a)pyrene	0.31	- -
Benzo(b)fluoranthene	0.7	- -
Benzo(k)fluoranthene	0.17	- -
Chrysene	0.34	- -
Indeno(1,2,3-cd)pyrene	0.81	- -
Metals in µg/L		
Iron	1,060	50 U
Sodium	71,300	77,500
PFAS in µg/L		
Perfluorooctanoic Acid (PFOA)	0.323	- -

Client Sample ID:	MW-86	
Sampling Date:	3/11/2022	
Laboratory ID:	L2212979-02	
Sample Type:	Total	Dissolved
VOCs in µg/L		
1,2,4,5-Tetramethylbenzene	21	- -
Benzene	2	- -
Isopropylbenzene	8.1	- -
n-Propylbenzene	12	- -
SVOCs in µg/L		
Benzo(a)anthracene	0.05 J	- -
Benzo(b)fluoranthene	0.06 J	- -
Benzo(k)fluoranthene	0.16	- -
Chrysene	0.05 J	- -
Indeno(1,2,3-cd)pyrene	0.09 J	- -
Naphthalene	0.13	- -
Metals in µg/L		
Iron	45,200	18,800
Magnesium	56,800	47,200
Manganese	2,344	2,054
Sodium	171,000	172,000
PFAS in µg/L		
Perfluorooctanesulfonic Acid (PFOS)	0.0122	- -
Perfluorooctanoic Acid (PFOA)	0.038	- -

Client Sample ID:	MW002	
Sampling Date:	3/11/2022	
Laboratory ID:	L2212979-03	
Sample Type:	Total	Dissolved
VOCs in µg/L		
Acetone	66	- -
SVOCs in µg/L		
Phenol	2.9 J	- -
Benzo(a)anthracene	0.03 J	- -
Metals in µg/L		
Barium	1066	62.26
Beryllium	8.84	0.5 U
Cadmium	6.09	0.49
Chromium	343.6	0.81 J
Copper	357.7	2.35
Iron	112,000	55.6
Lead	734.7	1 U
Magnesium	50,100	20,800
Manganese	14,620	7,382
Nickel	281	73.16
Selenium	17.5	5 U
Sodium	90,500	101,000
Thallium	0.82 J	0.15 J
PFAS in µg/L		
Perfluorooctanesulfonic Acid (PFOS)	0.0169	- -
Perfluorooctanoic Acid (PFOA)	0.0944	- -

Client Sample ID:	MW-84	
Sampling Date:	3/10/2022	
Laboratory ID:	L2212899-03	
Sample Type:	Total	Dissolved
VOCs in µg/L		
Benzene	25	- -
Chloroform	12	- -
SVOCs in µg/L		
Benzo(a)anthracene	0.06 J	- -
Benzo(a)pyrene	0.09 J	- -
Benzo(b)fluoranthene	0.3	- -
Benzo(k)fluoranthene	0.08 J	- -
Chrysene	0.17	- -
Indeno(1,2,3-cd)pyrene	0.2	- -
Metals in µg/L		
Antimony	1.93 J	4.94
Arsenic	28.3	6.3
Iron	7,760	50 U
Manganese	372	220.2
Sodium	23,200	30,100
PFAS in µg/L		
Perfluorooctanesulfonic Acid (PFOS)	0.00278	- -

Client Sample ID:	MW-3	
Sampling Date:	3/10/2022	
Laboratory ID:	L2212899-06	
Sample Type:	Total	Dissolved
SVOCs in µg/L		
Benzo(a)anthracene	0.03 J	- -
Benzo(a)pyrene	0.03 J	- -
Benzo(b)fluoranthene	0.08 J	- -
Benzo(k)fluoranthene	0.02 J	- -
Chrysene	0.03 J	- -
Indeno(1,2,3-cd)pyrene	0.08 J	- -
Metals in µg/L		
Arsenic	37.57	0.92
Iron	20,300	23.6 J
Magnesium	50,600	48,200
Manganese	16,610	13,570
Sodium	341,000	406,000
PFAS in µg/L		
Perfluorooctanoic Acid (PFOA)	0.053	- -

Client Sample ID:	MW-7	
Sampling Date:	3/11/2022	
Laboratory ID:	L2212979-01	
Sample Type:	Total	Dissolved
SVOCs in µg/L		
Bis(2-ethylhexyl)phthalate	7	- -
Benzo(a)anthracene	0.37	- -
Benzo(a)pyrene	0.6	- -
Benzo(b)fluoranthene	2.9	- -
Benzo(k)fluoranthene	0.79	- -
Chrysene	2	- -
Indeno(1,2,3-cd)pyrene	1.5	- -
Metals in µg/L		
Iron	11,800	293
Lead	60.83	0.86 J
Manganese	375.7	219
Sodium	68,800	71,400
PFAS in µg/L		
Perfluorooctanesulfonic Acid (PFOS)	0.00516 F	- -

Notes:

Highlighted values indicate exceedance of the NYSDEC AWQS

0 20 40 60 80 Feet

Site Boundary
Sampled Monitoring Wells
Unsampled Monitoring Well
Monitoring Wells Containing LNAPL
0.02' LNAPL Thickness

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Project:	TOT2101	Designed by:	JL
Date:	7/28/2022	Drawn by:	OA
Scale:	AS SHOWN	Approved by:	JL

Groundwater Sampling Exceedances

731-747 4th Ave
Brooklyn, NY

FIGURE NO:

6

Document Path: W:\Projects\S-Z\TOT\2101\ProjectFiles\TOT2101_RIWP_Figures\TOT2101_RIWP_Figures_v3.aprx



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Date:	4/22/2022	Drawn by:	OA
Scale:	AS SHOWN	Approved by:	JL

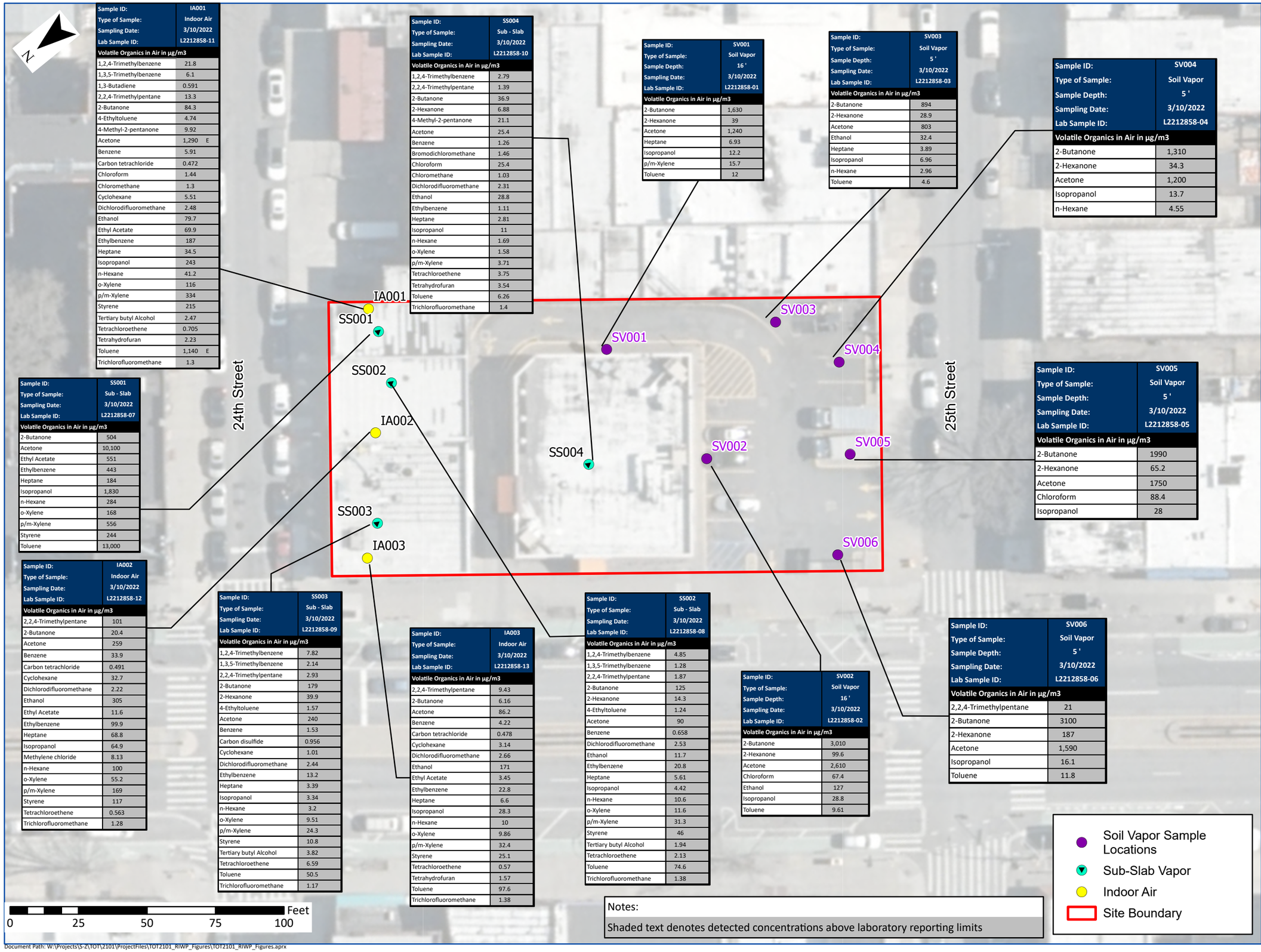
Soil Vapor Sampling Locations

731-737 4th Ave
Brooklyn, NY

FIGURE NO:

7

Document Path: W:\Projects\S-Z\TOT\2101\ProjectFiles\TOT2101_RIWP_Figures\TOT2101_RIWP_Figures.aprx



Sample ID:	IA001
Type of Sample:	Indoor Air
Sampling Date:	3/10/2022
Lab Sample ID:	L2212858-11
Volatile Organics in Air in µg/m3	
1,2,4-Trimethylbenzene	21.8
1,3,5-Trimethylbenzene	6.1
1,3-Butadiene	0.591
2,2,4-Trimethylpentane	13.3
2-Butanone	84.3
4-Ethyltoluene	4.74
4-Methyl-2-pentanone	9.92
Acetone	1,290 E
Benzene	5.91
Carbon tetrachloride	0.472
Chloroform	1.44
Chloromethane	1.3
Cyclohexane	5.51
Dichlorodifluoromethane	2.48
Ethanol	79.7
Ethyl Acetate	69.9
Ethylbenzene	187
Heptane	34.5
Isopropanol	243
n-Hexane	41.2
o-Xylene	116
p/m-Xylene	334
Styrene	215
Tertiary butyl Alcohol	2.47
Tetrachloroethene	0.705
Tetrahydrofuran	2.23
Toluene	1,140 E
Trichlorofluoromethane	1.3

Sample ID:	SS001
Type of Sample:	Sub - Slab
Sampling Date:	3/10/2022
Lab Sample ID:	L2212858-07
Volatile Organics in Air in µg/m3	
2-Butanone	504
Acetone	10,100
Ethyl Acetate	551
Ethylbenzene	443
Heptane	184
Isopropanol	1,830
n-Hexane	284
o-Xylene	168
p/m-Xylene	556
Styrene	244
Toluene	13,000

Sample ID:	IA002
Type of Sample:	Indoor Air
Sampling Date:	3/10/2022
Lab Sample ID:	L2212858-12
Volatile Organics in Air in µg/m3	
2,2,4-Trimethylpentane	101
2-Butanone	20.4
Acetone	259
Benzene	33.9
Carbon tetrachloride	0.491
Cyclohexane	32.7
Dichlorodifluoromethane	2.22
Ethanol	305
Ethyl Acetate	11.6
Ethylbenzene	99.9
Heptane	68.8
Isopropanol	64.9
Methylene chloride	8.13
n-Hexane	100
o-Xylene	55.2
p/m-Xylene	169
Styrene	117
Tetrachloroethene	0.563
Trichlorofluoromethane	1.28

Sample ID:	SS003
Type of Sample:	Sub - Slab
Sampling Date:	3/10/2022
Lab Sample ID:	L2212858-09
Volatile Organics in Air in µg/m3	
1,2,4-Trimethylbenzene	7.82
1,3,5-Trimethylbenzene	2.14
2,2,4-Trimethylpentane	2.93
2-Butanone	179
2-Hexanone	39.9
4-Ethyltoluene	1.57
Acetone	240
Benzene	1.53
Carbon disulfide	0.956
Cyclohexane	1.01
Dichlorodifluoromethane	2.44
Ethylbenzene	13.2
Heptane	3.39
Isopropanol	3.34
n-Hexane	3.2
o-Xylene	9.51
p/m-Xylene	24.3
Styrene	10.8
Tertiary butyl Alcohol	3.82
Tetrachloroethene	6.59
Toluene	50.5
Trichlorofluoromethane	1.17

Sample ID:	IA003
Type of Sample:	Indoor Air
Sampling Date:	3/10/2022
Lab Sample ID:	L2212858-13
Volatile Organics in Air in µg/m3	
2,2,4-Trimethylpentane	9.43
2-Butanone	6.16
Acetone	86.2
Benzene	4.22
Carbon tetrachloride	0.478
Cyclohexane	3.14
Dichlorodifluoromethane	2.66
Ethanol	171
Ethyl Acetate	3.45
Ethylbenzene	22.8
Heptane	6.6
Isopropanol	28.3
n-Hexane	10
o-Xylene	9.86
p/m-Xylene	32.4
Styrene	25.1
Tetrachloroethene	0.57
Tetrahydrofuran	1.57
Toluene	97.6
Trichlorofluoromethane	1.38

Sample ID:	SS004
Type of Sample:	Sub - Slab
Sampling Date:	3/10/2022
Lab Sample ID:	L2212858-10
Volatile Organics in Air in µg/m3	
1,2,4-Trimethylbenzene	2.79
2,2,4-Trimethylpentane	1.39
2-Butanone	36.9
2-Hexanone	6.88
4-Methyl-2-pentanone	21.1
Acetone	25.4
Benzene	1.26
Bromodichloromethane	1.46
Chloroform	25.4
Chloromethane	1.03
Dichlorodifluoromethane	2.31
Ethanol	28.8
Ethylbenzene	1.11
Heptane	2.81
Isopropanol	11
n-Hexane	1.69
o-Xylene	1.58
p/m-Xylene	3.71
Tetrachloroethene	3.75
Tetrahydrofuran	3.54
Toluene	6.26
Trichlorofluoromethane	1.4

Sample ID:	SS002
Type of Sample:	Sub - Slab
Sampling Date:	3/10/2022
Lab Sample ID:	L2212858-08
Volatile Organics in Air in µg/m3	
1,2,4-Trimethylbenzene	4.85
1,3,5-Trimethylbenzene	1.28
2,2,4-Trimethylpentane	1.87
2-Butanone	125
2-Hexanone	14.3
4-Ethyltoluene	1.24
Acetone	90
Benzene	0.658
Dichlorodifluoromethane	2.53
Ethanol	11.7
Ethylbenzene	20.8
Heptane	5.61
Isopropanol	4.42
n-Hexane	10.6
o-Xylene	11.6
p/m-Xylene	31.3
Styrene	46
Tertiary butyl Alcohol	1.94
Tetrachloroethene	2.13
Toluene	74.6
Trichlorofluoromethane	1.38

Sample ID:	SV001
Type of Sample:	Soil Vapor
Sample Depth:	16 '
Sampling Date:	3/10/2022
Lab Sample ID:	L2212858-01
Volatile Organics in Air in µg/m3	
2-Butanone	1,630
2-Hexanone	39
Acetone	1,240
Heptane	6.93
Isopropanol	12.2
p/m-Xylene	15.7
Toluene	12

Sample ID:	SV002
Type of Sample:	Soil Vapor
Sample Depth:	16 '
Sampling Date:	3/10/2022
Lab Sample ID:	L2212858-02
Volatile Organics in Air in µg/m3	
2-Butanone	3,010
2-Hexanone	99.6
Acetone	2,610
Chloroform	67.4
Ethanol	127
Isopropanol	28.8
Toluene	9.61

Sample ID:	SV003
Type of Sample:	Soil Vapor
Sample Depth:	5 '
Sampling Date:	3/10/2022
Lab Sample ID:	L2212858-03
Volatile Organics in Air in µg/m3	
2-Butanone	894
2-Hexanone	28.9
Acetone	803
Ethanol	32.4
Heptane	3.89
Isopropanol	6.96
n-Hexane	2.96
Toluene	4.6

Sample ID:	SV004
Type of Sample:	Soil Vapor
Sample Depth:	5 '
Sampling Date:	3/10/2022
Lab Sample ID:	L2212858-04
Volatile Organics in Air in µg/m3	
2-Butanone	1,310
2-Hexanone	34.3
Acetone	1,200
Isopropanol	13.7
n-Hexane	4.55

Sample ID:	SV005
Type of Sample:	Soil Vapor
Sample Depth:	5 '
Sampling Date:	3/10/2022
Lab Sample ID:	L2212858-05
Volatile Organics in Air in µg/m3	
2-Butanone	1990
2-Hexanone	65.2
Acetone	1750
Chloroform	88.4
Isopropanol	28

Sample ID:	SV006
Type of Sample:	Soil Vapor
Sample Depth:	5 '
Sampling Date:	3/10/2022
Lab Sample ID:	L2212858-06
Volatile Organics in Air in µg/m3	
2,2,4-Trimethylpentane	21
2-Butanone	3100
2-Hexanone	187
Acetone	1,590
Isopropanol	16.1
Toluene	11.8

Notes:

Shaded text denotes detected concentrations above laboratory reporting limits

- Soil Vapor Sample Locations
- Sub-Slab Vapor
- Indoor Air
- Site Boundary

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REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

Project:	TOT2101	Designed by:	JL
Date:	4/22/2022	Drawn by:	OA
Scale:	AS SHOWN	Approved by:	JL

Soil Vapor and Ambient Air Detections

731-747 4th Ave
Brooklyn, NY

FIGURE NO:

8

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TABLES

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Table 1
Soil VOC Analytical Data
731-747 4th Avenue, Brooklyn, NY

Sample ID:	CAS Number	NYSDEC Soil Cleanup Objectives Unrestricted Use	NYSDEC (2) Soil Cleanup Objectives Restricted Residential Use	SB001	SB001	SB002	SB002	SB002	SB003	SB003	SB003	SB003	SB004	SB004	SB005	SB005	SB005	SB005	SB006	SB006	SB007
Sample Depth:				0-2'	4-6'	2-4'	6-8'	18-20'	3-5'	9-11'	15-17'	20-22'	2-4'	6-8'	0-2'	8-10'	12-14'	15-17'	3-4'	4-6'	3-5'
Sampling Date:				3/1/2022	3/1/2022	3/1/2022	3/1/2022	3/1/2022	3/1/2022	3/1/2022	3/1/2022	3/1/2022	3/1/2022	3/1/2022	3/1/2022	3/1/2022	3/1/2022	3/1/2022	3/1/2022	3/1/2022	3/1/2022
Lab Sample ID:				L2210848-14	L2210848-15	L2210848-30	L2210848-17	L2210848-19	L2210848-22	L2210848-27	L2210848-20	L2210848-28	L2210848-18	L2211451-03	L2210848-13	L2210848-16	L2210848-29	L2211451-01	L2210848-04	L2210848-03	L2210848-05
Volatile Organic Compounds by EPA Method 8260 in mg/Kg																					
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	0.0005 U	0.00049 U	0.00071 U	0.0006 U	0.00046 U	0.00049 U	0.00052 U	0.00054 U	0.00052 U	0.0005 U	0.00053 U	0.0005 U	0.00047 U	0.00051 U	0.00043 U	0.0005 U	0.00056 U	0.00077 U
1,1,1-Trichloroethane	71-55-6	0.68	100	0.0005 U	0.00049 U	0.00071 U	0.0006 U	0.00046 U	0.00049 U	0.00052 U	0.00054 U	0.00052 U	0.0005 U	0.00053 U	0.0005 U	0.00047 U	0.00051 U	0.00043 U	0.0005 U	0.00056 U	0.00077 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	0.0005 U	0.00049 U	0.00071 U	0.0006 U	0.00046 U	0.00049 U	0.00052 U	0.00054 U	0.00052 U	0.0005 U	0.00053 U	0.0005 U	0.00047 U	0.00051 U	0.00043 U	0.0005 U	0.00056 U	0.00077 U
1,1,2-Trichloroethane	79-00-5	NS	NS	0.0010 U	0.00097 U	0.0014 U	0.0012 U	0.00091 U	0.00099 U	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.001 U	0.0011 U	0.0015 U
1,1-Dichloroethane	75-34-3	0.27	26	0.0010 U	0.00097 U	0.0014 U	0.0012 U	0.00091 U	0.00099 U	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.001 U	0.0011 U	0.0015 U
1,1-Dichloroethene	75-35-4	0.33	100	0.0010 U	0.00097 U	0.0014 U	0.0012 U	0.00091 U	0.00099 U	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.001 U	0.0011 U	0.0015 U
1,1-Dichloropropene	563-58-6	NS	NS	0.0005 U	0.00049 U	0.00071 U	0.0006 U	0.00046 U	0.00049 U	0.00052 U	0.00054 U	0.00052 U	0.0005 U	0.00053 U	0.0005 U	0.00047 U	0.00051 U	0.00043 U	0.0005 U	0.00056 U	0.00077 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
1,2,3-Trichloropropane	96-18-4	NS	NS	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
1,2,4-Trimethylbenzene	95-63-6	3.6	52	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
1,2-Dibromo-3-chloropropane	96-12-8	NS	NS	0.0030 U	0.0029 U	0.0043 U	0.0036 U	0.0027 U	0.003 U	0.0032 U	0.0032 U	0.0031 U	0.003 U	0.0032 U	0.003 U	0.0028 U	0.0031 U	0.0026 U	0.003 U	0.0034 U	0.0046 U
1,2-Dibromoethane	106-93-4	NS	NS	0.0010 U	0.00097 U	0.0014 U	0.0012 U	0.00091 U	0.00099 U	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.001 U	0.0011 U	0.0015 U
1,2-Dichlorobenzene	95-50-1	1.1	100	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
1,2-Dichloroethane	107-06-2	0.02	3.1	0.0010 U	0.00097 U	0.0014 U	0.0012 U	0.00091 U	0.00099 U	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.001 U	0.0011 U	0.0015 U
1,2-Dichloroethene, Total	540-59-0	NS	NS	0.0010 U	0.00097 U	0.0014 U	0.0012 U	0.00091 U	0.00099 U	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.001 U	0.0011 U	0.0015 U
1,2-Dichloropropane	78-87-5	NS	NS	0.0010 U	0.00097 U	0.0014 U	0.0012 U	0.00091 U	0.00099 U	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.001 U	0.0011 U	0.0015 U
1,3,5-Trimethylbenzene	108-67-8	8.4	52	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
1,3-Dichlorobenzene	541-73-1	2.4	49	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
1,3-Dichloropropane	142-28-9	NS	NS	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
1,3-Dichloropropene, Total	542-75-6	NS	NS	0.0005 U	0.00049 U	0.00071 U	0.0006 U	0.00046 U	0.00049 U	0.00052 U	0.00054 U	0.00052 U	0.0005 U	0.00053 U	0.0005 U	0.00047 U	0.00051 U	0.00043 U	0.0005 U	0.00056 U	0.00077 U
1,4-Dichlorobenzene	106-46-7	1.8	13	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
1,4-Dioxane	123-91-1	0.1	13	0.0800 U	0.078 U	0.11 U	0.097 U	0.073 U	0.079 U	0.084 U	0.086 U	0.083 U	0.08 U	0.085 U	0.081 U	0.076 U	0.082 U	0.07 U	0.08 U	0.09 U	0.12 U
2,2-Dichloropropane	594-20-7	NS	NS	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
2-Butanone	78-93-3	0.12	100	0.0099 U	0.0097 U	0.014 U	0.012 U	0.0091 U	0.0093 J	0.01 U	0.011 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0094 U	0.01 U	0.0087 U	0.01 U	0.011 U	0.015 U
2-Hexanone	591-78-6	NS	NS	0.0099 U	0.0097 U	0.014 U	0.012 U	0.0091 U	0.0099 U	0.01 U	0.011 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0094 U	0.01 U	0.0087 U	0.01 U	0.011 U	0.015 U
4-Methyl-2-pentanone	108-10-1	NS	NS	0.0099 U	0.0097 U	0.014 U	0.012 U	0.0091 U	0.0099 U	0.01 U	0.011 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0094 U	0.01 U	0.0087 U	0.01 U	0.011 U	0.015 U
Acetone	67-64-1	0.05	100	0.0099 U	0.0097 U	0.007 J	0.012 U	0.0091 U	0.051	0.01 U	0.011 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0094 U	0.013	0.0087 U	0.01 U	0.011 U	0.015 U
Acrylonitrile	107-13-1	NS	NS	0.0040 U	0.0039 U	0.0057 U	0.0048 U	0.0036 U	0.0039 U	0.0042 U	0.0043 U	0.0042 U	0.004 U	0.0042 U	0.004 U	0.0038 U	0.0041 U	0.0035 U	0.004 U	0.0045 U	0.0062 U
Benzene	71-43-2	0.06	4.8	0.0005 U	0.00049 U	0.00071 U	0.0006 U	0.00046 U	0.00049 U	0.00052 U	0.00054 U	0.00052 U	0.0005 U	0.00053 U	0.0005 U	0.00047 U	0.00051 U	0.00043 U	0.00024 J	0.00056 U	0.00077 U
Bromobenzene	108-86-1	NS	NS	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
Bromochloromethane	74-97-5	NS	NS	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
Bromodichloromethane	75-27-4	NS	NS	0.0005 U	0.00049 U	0.00071 U	0.0006 U	0.00046 U	0.00049 U	0.00052 U	0.00054 U	0.00052 U	0.0005 U	0.00053 U	0.0005 U	0.00047 U	0.00051 U	0.00043 U	0.0005 U	0.00056 U	0.00077 U
Bromoform	75-25-2	NS	NS	0.0040 U	0.0039 U	0.0057 U	0.0048 U	0.0036 U	0.0039 U	0.0042 U	0.0043 U	0.0042 U	0.004 U	0.0042 U	0.004 U	0.0038 U	0.0041 U	0.0035 U	0.004 U	0.0045 U	0.0062 U
Bromomethane	74-83-9	NS	NS	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
Carbon disulfide	75-15-0	NS	NS	0.0099 U	0.0097 U	0.014 U	0.012 U	0.0091 U	0.0099 U	0.01 U	0.011 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0094 U	0.01 U	0.0087 U	0.01 U	0.011 U	0.015 U
Carbon tetrachloride	56-23-5	0.76	2.4	0.0010 U	0.00097 U	0.0014 U	0.0012 U	0.00091 U	0.00099 U	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.001 U	0.0011 U	0.0015 U
Chlorobenzene	108-90-7	1.1	100	0.0005 U	0.00049 U	0.00071 U	0.0006 U	0.00046 U	0.00049 U	0.00052 U	0.00054 U	0.00052 U	0.0005 U	0.00053 U	0.0005 U	0.00047 U	0.00051 U	0.00043 U	0.0005 U	0.00056 U	0.00077 U
Chloroethane	75-00-3	NS	NS	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
Chloroform	67-66-3	0.37	49	0.0002 J	0.00046 J	0.0021 U	0.0018 U	0.0014 U	0.0015 U	0.0016 U	0.0016 U	0.0016 U	0.0015 U	0.0016 U	0.0015 U	0.0014 U	0.0015 U	0.0013 U	0.0015 U	0.0017 U	0.0023 U
Chloromethane	74-87-3	NS	NS	0.0040 U	0.0039 U	0.0057 U	0.0048 U	0.0036 U	0.0039 U	0.0042 U	0.0043 U	0.0042 U	0.004 U	0.0042 U	0.004 U	0.0038 U	0.0041 U	0.0035 U	0.004 U	0.0045 U	0.0062 U
cis-1,2-Dichloroethene	156-59-2	0.25	100	0.0010 U	0.00097 U	0.0014 U	0.0012 U	0.00091 U	0.00099 U	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.001 U	0.0011 U	0.0015 U
cis-1,3-Dichloropropene	10061-01-5	NS	NS	0.0005 U	0.00049 U	0.00071 U	0.0006 U	0.00046 U	0.00049 U	0.00052 U	0.00054 U	0.00052 U	0.0005 U	0.00053 U	0.0005 U	0.00047 U	0.00051 U	0.00043 U	0.0005 U	0.00056 U	0.00077 U
Dibromochloromethane	124-48-1	NS	NS	0.0010 U	0.00097 U	0.0014 U	0.0012 U	0.00091 U	0.00099 U	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.001 U	0.0011 U	0.0015 U
Dibromomethane	74-95-3	NS	NS	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
Dichlorodifluoromethane	75-71-8	NS	NS	0.0099 U	0.0097 U	0.014 U	0.012 U	0.0091 U	0.0099 U	0.01 U	0.011 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0094 U	0.01 U	0.0087 U	0.01 U	0.011 U	0.015 U
Ethyl ether	60-29-7	NS	NS	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
Ethylbenzene	100-41-4	1	41	0.0006 J	0.00097 U	0.00031 J	0.00082 J	0.00049 J	0.00099 U	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.001 U	0.0011 U	0.0015 U
Hexachlorobutadiene	87-68-3	NS	NS	0.0040 U	0.0039 U	0.0057 U	0.0048 U	0.0036 U	0.0039 U	0.0042 U	0.0043 U	0.0042 U	0.004 U	0.0042 U	0.004 U	0.0038 U	0.0041 U	0.0035 U	0.004 U	0.0045 U	0.0062 U
Isopropylbenzene	98-82-8	NS	NS	0.0010 U	0.00097 U	0.0014 U	0.0012 U	0.00091 U	0.00099 U	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.001 U	0.0011 U	0.0015 U
Methyl tert butyl ether	1634-04-4	0.93	100	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
Methylene chloride	75-09-2	0.05	100	0.0050 U	0.0049 U	0.0071 U	0.006 U	0.0046 U	0.0049 U	0.0052 U	0.0054 U	0.0052 U	0.005 U	0.0053 U	0.005 U	0.0047 U	0.0051 U	0.0043 U	0.005 U	0.0056 U	0.0077 U
n-Butylbenzene	104-51-8	12	100	0.0010 U	0.00097 U	0.0014 U	0.0012 U	0.00091 U	0.00099 U	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.001 U	0.0011 U	0.0015 U
n-Propylbenzene	103-65-1	3.9	100	0.0010 U	0.00097 U	0.0014 U	0.0012 U	0.00091 U	0.00099 U	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.001 U	0.0011 U	0.0015 U
Naphthalene	91-20-3	12	100	0.0040 U	0.0039 U	0.0057 U	0.0048 U	0.0036 U	0.00082 J	0.0022 J	0.0023 J	0.0022 J	0.004 U	0.0042 U	0.004 U	0.0038 U	0.0041 U	0.0035 U	0.004 U	0.0045 U	0.0062 U
o-Chlorotoluene	95-49-8	NS	NS	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
o-Xylene	95-47-6	NS	NS	0.0010 U	0.00097 U	0.0014 U	0.0012 U	0.00091 U	0.00099 U	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.001 U	0.0011 U	0.0015 U
p-Chlorotoluene	106-43-4	NS	NS	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
p-Diethylbenzene	105-05-5	NS	NS	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
p-Ethyltoluene	622-96-8	NS	NS	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
p-Isopropyltoluene	99-87-6	NS	NS	0.0010 U	0.00097 U	0.0014 U	0.0012 U	0.00091 U	0.00022 J	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.001 U	0.0011 U	0.0015 U
p/m-Xylene	179601-23-1	NS	NS	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.002 U	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
sec-Butylbenzene	135-98-8	11	100	0.0010 U	0.00097 U	0.0014 U	0.0012 U	0.00091 U	0.0002 J	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.001 U	0.0011 U	0.0015 U
Styrene	100-42-5	NS	NS	0.0002 J	0.00097 U	0.0014 U	0.00039 J	0.00067 J	0.00099 U	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.001 U	0.0011 U	0.0015 U
tert-Butylbenzene	98-06-6	5.9	100	0.0020 U	0.0019 U	0.0028 U	0.0024 U	0.0018 U	0.00012 J	0.0021 U	0.0021 U	0.0021 U	0.002 U	0.0021 U	0.002 U	0.0019 U	0.002 U	0.0017 U	0.002 U	0.0022 U	0.0031 U
Tetrachloroethene	127-18-4	1.3	19	0.0008	0.0016	0.00071 U	0.0006 U	0.00046 U	0.00049 U	0.00052 U	0.00054 U	0.00052 U	0.0005 U	0.00053 U	0.0005 U	0.00047 U	0.00051 U	0.00043 U	0.0005 U	0.00056 U	0.00077 U
Toluene	108-88-3	0.7	100	0.0007 J	0.00097 U	0.00089 J	0.0012	0.0018	0.00099 U	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.00054 J	0.0011 U	0.0015 U
trans-1,2-Dichloroethene	156-60-5	0.19	100	0.0015 U	0.0015 U	0.0021 U	0.0018 U	0.0014 U	0.0015 U	0.0016 U	0.0016 U	0.0016 U	0.0015 U	0.0016 U	0.0015 U	0.0014 U	0.0015 U	0.0013 U	0.0015 U	0.0017 U	0.0023 U
trans-1,3-Dichloropropene	10061-02-6	NS	NS	0.0010 U	0.00097 U	0.0014 U	0.0012 U	0.00091 U	0.00099 U	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.001 U	0.0011 U	0.0015 U
trans-1,4-Dichloro-2-butene	110-57-6	NS	NS	0.0050 U	0.0049 U	0.0071 U	0.006 U	0.0046 U	0.0049 U	0.0052 U	0.0054 U	0.0052 U	0.005 U	0.0053 U	0.005 U	0.0047 U	0.0051 U	0.0043 U	0.005 U	0.0056 U	0.0077 U
Trichloroethene	79-01-6	0.47	21	0.0005 U	0.0005	0.00071 U	0.0006 U	0.00046 U	0.00049 U	0.00052 U	0.00054 U	0.00052 U	0.0005 U	0.00053 U	0.0005 U	0.00047 U	0.00051 U	0.00043 U	0.0005 U	0.00056 U	0.00077 U
Trichlorofluoromethane	75-69-4	NS	NS	0.0040 U	0.0039 U	0.0057 U	0.0048 U	0.0036 U	0.0039 U	0.0042 U	0.0043 U	0.0042 U	0.004 U	0.0042 U	0.004 U	0.0038 U	0.0041 U	0.0035 U	0.004 U	0.0045 U	0.0062 U
Vinyl acetate	108-05-4	NS	NS	0.0099 U	0.0097 U	0.014 U	0.012 U	0.0091 U	0.0099 U	0.01 U	0.011 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0094 U	0.01 U	0.0087 U	0.01 U	0.011 U	0.015 U
Vinyl chloride	75-01-4	0.02	0.9	0.0010 U	0.00097 U	0.0014 U	0.0012 U	0.00091 U	0.00099 U	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.001 U	0.0011 U	0.0015 U
Xylenes, Total	1330-20-7	0.26	100	0.0010 U	0.00097 U	0.0014 U	0.0012 U	0.00091 U	0.00099 U	0.001 U	0.0011 U	0.001 U	0.00099 U	0.001 U	0.001 U	0.00094 U	0.001 U	0.00087 U	0.001 U	0.0011 U	0.0015 U

Notes:
(1) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use of Soil Cleanup Objective Table 375-6.8a 12/06
(2) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use of Soil Cleanup Objective Table 375-6.8b 12/06
Blind duplicates: DUP001 = SB007 (3-5') and DUP002 = SB005 (0-2')
NS - No standard
J - Estimated Value
U - The compound was not detected at the indicated concentration.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
Shaded text denotes concentrations exceeding NYSDEC Unrestricted Use
Shaded text denotes concentrations exceeding NYSDEC Restricted Residential Use

Table 1
Soil VOC Analytical Data
731-747 4th Avenue, Brooklyn, NY

Sample ID:	CAS Number	NYSDEC Soil Cleanup Objectives Unrestricted Use	NYSDEC (2) Soil Cleanup Objectives Restricted Residential Use	SB007		SB007		SB008		SB008		SB008		SB008		SB009		SB009		SB009		SB010		SB010		SB010		SB011		SB011		SB011		DUP001		DUP002	
Sample Depth:				7-9'		18-20'		0-2'		2-4'		6-8'		12-14'		3-5'		5-7'		9-11'		0-2'		4-6'		8-10'		0-2'		6-8'		18-20'		3-5'		0-2'	
Sampling Date:				3/1/2022		3/1/2022		3/1/2022		3/1/2022		3/1/2022		3/1/2022		3/1/2022		3/1/2022		3/1/2022		3/1/2022		3/1/2022		3/1/2022		3/1/2022		3/1/2022		3/1/2022		3/1/2022		3/1/2022	
Lab Sample ID:				L2210848-06		L2210848-07		L2210848-09		L2210848-12		L2210848-10		L2210848-02		L2210848-32		L2211451-02		L2210848-31		L2210848-01		L2210848-25		L2210848-26		L2210848-21		L2210848-24		L2210848-23		L2210848-08		L2210848-11	
Volatile Organic Compounds by EPA Method 8260 in mg/Kg																																			
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	0.032	U	0.00049	U	0.00046	U	0.00057	U	0.00052	U	0.00047	U	0.00055	U	0.0007	U	0.0005	U	0.00045	U	0.00051	U	0.00056	U	0.00048	U	0.00057	U	0.27	U	0.00049	U	0.0005	U
1,1,1-Trichloroethane	71-55-6	0.68	100	0.032	U	0.00049	U	0.00046	U	0.00057	U	0.00052	U	0.00047	U	0.00055	U	0.0007	U	0.0005	U	0.00045	U	0.00051	U	0.00056	U	0.00048	U	0.00057	U	0.27	U	0.00049	U	0.0005	U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	0.032	U	0.00049	U	0.00046	U	0.00057	U	0.00052	U	0.00047	U	0.00055	U	0.0007	U	0.0005	U	0.00045	U	0.00051	U	0.00056	U	0.00048	U	0.00057	U	0.27	U	0.00049	U	0.0005	U
1,1,2-Trichloroethane	79-00-5	NS	NS	0.064	U	0.00098	U	0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.00099	U	0.0009	U	0.001	U	0.0011	U	0.00096	U	0.0011	U	0.53	U	0.00098	U	0.00099	U
1,1-Dichloroethane	75-34-3	0.27	26	0.064	U	0.00098	U	0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.00099	U	0.0009	U	0.001	U	0.0011	U	0.00096	U	0.0011	U	0.53	U	0.00098	U	0.00099	U
1,1-Dichloroethene	75-35-4	0.33	100	0.064	U	0.00098	U	0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.00099	U	0.0009	U	0.001	U	0.0011	U	0.00096	U	0.0011	U	0.53	U	0.00098	U	0.00099	U
1,1-Dichloropropene	563-58-6	NS	NS	0.032	U	0.00049	U	0.00046	U	0.00057	U	0.00052	U	0.00047	U	0.00055	U	0.0007	U	0.0005	U	0.00045	U	0.00051	U	0.00056	U	0.00048	U	0.00057	U	0.27	U	0.00049	U	0.0005	U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	0.13	U	0.002	U	0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.002	U	0.0018	U	0.002	U	0.0022	U	0.0019	U	0.0023	U	1.1	U	0.002	U	0.002	U
1,2,3-Trichloropropane	96-18-4	NS	NS	0.13	U	0.002	U	0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.002	U	0.0018	U	0.002	U	0.0022	U	0.0019	U	0.0023	U	1.1	U	0.002	U	0.002	U
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	8.2		0.0026		0.00078	J	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.66	E	0.0018	U	0.00088	J	0.0022	U	0.00087	J	0.00066	J	16		0.002	U	0.002	U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	0.13	U	0.002	U	0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.002	U	0.0018	U	0.002	U	0.0022	U	0.0019	U	0.0023	U	1.1	U	0.002	U	0.002	U
1,2,4-Trimethylbenzene	95-63-6	3.6	52	13		0.011		0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.0042		0.0018	U	0.002	U	0.0022	U	0.0019	U	0.0015	J	1.1	U	0.002	U	0.002	U
1,2-Dibromo-3-chloropropane	96-12-8	NS	NS	0.19	U	0.0029	U	0.0028	U	0.0034	U	0.0031	U	0.0028	U	0.0033	U	0.0042	U	0.003	U	0.0027	U	0.003	U	0.0034	U	0.0029	U	0.0034	U	1.6	U	0.003	U	0.003	U
1,2-Dibromoethane	106-93-4	NS	NS	0.064	U	0.00098	U	0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.00099	U	0.0009	U	0.001	U	0.0011	U	0.00096	U	0.0011	U	0.53	U	0.00098	U	0.00099	U
1,2-Dichlorobenzene	95-50-1	1.1	100	0.13	U	0.002	U	0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.0041		0.0018	U	0.002	U	0.0022	U	0.0019	U	0.0023	U	1.1	U	0.002	U	0.002	U
1,2-Dichloroethane	107-06-2	0.02	3.1	0.064	U	0.00098	U	0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.00099	U	0.0009	U	0.001	U	0.0011	U	0.00096	U	0.0011	U	0.53	U	0.00098	U	0.00099	U
1,2-Dichloroethene, Total	540-59-0	NS	NS	0.064	U	0.00098	U	0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.00099	U	0.0009	U	0.001	U	0.0011	U	0.00096	U	0.0011	U	0.53	U	0.00098	U	0.00099	U
1,2-Dichloropropane	78-87-5	NS	NS	0.064	U	0.00098	U	0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.00099	U	0.0009	U	0.001	U	0.0011	U	0.00096	U	0.0011	U	0.53	U	0.00098	U	0.00099	U
1,3,5-Trimethylbenzene	108-67-8	8.4	52	5.5		0.0033		0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.0023		0.0018	U	0.002	U	0.0022	U	0.0019	U	0.00059	J	1.1	U	0.002	U	0.002	U
1,3-Dichlorobenzene	541-73-1	2.4	49	0.13	U	0.002	U	0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.00053	J	0.0018	U	0.002	U	0.0022	U	0.0019	U	0.0023	U	1.1	U	0.002	U	0.002	U
1,3-Dichloropropane	142-28-9	NS	NS	0.13	U	0.002	U	0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.002	U	0.0018	U	0.002	U	0.0022	U	0.0019	U	0.0023	U	1.1	U	0.002	U	0.002	U
1,3-Dichloropropene, Total	542-75-6	NS	NS	0.032	U	0.00049	U	0.00046	U	0.00057	U	0.00052	U	0.00047	U	0.00055	U	0.0007	U	0.0005	U	0.00045	U	0.00051	U	0.00056	U	0.00048	U	0.00057	U	0.27	U	0.00049	U	0.0005	U
1,4-Dichlorobenzene	106-46-7	1.8	13	0.13	U	0.002	U	0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.0038		0.0018	U	0.002	U	0.0022	U	0.0019	U	0.0023	U	1.1	U	0.002	U	0.002	U
1,4-Dioxane	123-91-1	0.1	13	5.1	U	0.078	U	0.074	U	0.091	U	0.084	U	0.075	U	0.088	U	0.11	U	0.08	U	0.072	U	0.081	U	0.09	U	0.077	U	0.092	U	43	U	0.079	U	0.079	U
2,2-Dichloropropane	594-20-7	NS	NS	0.13	U	0.002	U	0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.002	U	0.0018	U	0.002	U	0.0022	U	0.0019	U	0.0023	U	1.1	U	0.002	U	0.002	U
2-Butanone	78-93-3	0.12	100	0.64	U	0.0098	U	0.0092	U	0.011	U	0.01	U	0.0094	U	0.011	U	0.014	U	0.026		0.009	U	0.01	U	0.011	U	0.0096	U	0.011	U	5.3	U	0.0098	U	0.0099	U
2-Hexanone	591-78-6	NS	NS	0.64	U	0.0098	U	0.0092	U	0.011	U	0.01	U	0.0094	U	0.011	U	0.014	U	0.0099	U	0.009	U	0.01	U	0.011	U	0.0096	U	0.011	U	5.3	U	0.0098	U	0.0099	U
4-Methyl-2-pentanone	108-10-1	NS	NS	0.64	U	0.0098	U	0.0092	U	0.011	U	0.01	U	0.0094	U	0.011	U	0.014	U	0.0099	U	0.009	U	0.01	U	0.011	U	0.0096	U	0.011	U	5.3	U	0.0098	U	0.0099	U
Acetone	67-64-1	0.05	100	0.64	U	0.0078	J	0.0092	U	0.011	U	0.01	U	0.0094	U	0.011	U	0.011	J	0.083		0.009	U	0.0077	J	0.0089	J	0.0096	U	0.015		5.3	U	0.0098	U	0.0054	J
Acrylonitrile	107-13-1	NS	NS	0.25	U	0.0039	U	0.0037	U	0.0045	U	0.0042	U	0.0037	U	0.0044	U	0.0056	U	0.004	U	0.0036	U	0.004	U	0.0045	U	0.0038	U	0.0046	U	2.1	U	0.0039	U	0.004	U
Benzene	71-43-2	0.06	4.8	0.032	U	0.00051		0.00046	U	0.00057	U	0.00052	U	0.00047	U	0.00055	U	0.0007	U	0.00067		0.00045	U	0.00051	U	0.00056	U	0.00048	U	0.00057	U	0.27	U	0.00049	U	0.0005	U
Bromobenzene	108-86-1	NS	NS	0.13	U	0.002	U	0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.002	U	0.0018	U	0.002	U	0.0022	U	0.0019	U	0.0023	U	1.1	U	0.002	U	0.002	U
Bromochloromethane	74-97-5	NS	NS	0.13	U	0.002	U	0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.002	U	0.0018	U	0.002	U	0.0022	U	0.0019	U	0.0023	U	1.1	U	0.002	U	0.002	U
Bromodichloromethane	75-27-4	NS	NS	0.032	U	0.00049	U	0.00046	U	0.00057	U	0.00052	U	0.00047	U	0.00055	U	0.0007	U	0.0005	U	0.00045	U	0.00051	U	0.00056	U	0.00048	U	0.00057	U	0.27	U	0.00049	U	0.0005	U
Bromoform	75-25-2	NS	NS	0.25	U	0.0039	U	0.0037	U	0.0045	U	0.0042	U	0.0037	U	0.0044	U	0.0056	U	0.004	U	0.0036	U	0.004	U	0.0045	U	0.0038	U	0.0046	U	2.1	U	0.0039	U	0.004	U
Bromomethane	74-83-9	NS	NS	0.13	U	0.002	U	0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.002	U	0.0018	U	0.002	U	0.0022	U	0.0019	U	0.0023	U	1.1	U	0.002	U	0.002	U
Carbon disulfide	75-15-0	NS	NS	0.64	U	0.0098	U	0.0092	U	0.011	U	0.01	U	0.0094	U	0.011	U	0.014	U	0.0099	U	0.009	U	0.01	U	0.011	U	0.0096	U	0.011	U	5.3	U	0.0098	U	0.0099	U
Carbon tetrachloride	56-23-5	0.76	2.4	0.064	U	0.00098	U	0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.00099	U	0.0009	U	0.001	U	0.0011	U	0.00096	U	0.0011	U	0.53	U	0.00098	U	0.00099	U
Chlorobenzene	108-90-7	1.1	100	0.032	U	0.00049	U	0.00046	U	0.00057	U	0.00052	U	0.00047	U	0.00055	U	0.0007	U	0.0041		0.00045	U	0.00051	U	0.00056	U	0.00048	U	0.00057	U	0.27	U	0.00049	U	0.0005	U
Chloroethane	75-00-3	NS	NS	0.13	U	0.002	U	0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.002	U	0.0018	U	0.002	U	0.0022	U	0.0019	U	0.0023	U	1.1	U	0.002	U	0.002	U
Chloroform	67-66-3	0.37	49	0.096	U	0.0015	U	0.0014	U	0.0017	U	0.0016	U	0.0014	U	0.0016	U	0.0021	U	0.0015	U	0.0014	U	0.0015	U	0.0017	U	0.0014	U	0.0017	U	0.8	U	0.0015	U	0.0015	U
Chloromethane	74-87-3	NS	NS	0.25	U	0.0039	U	0.0037	U	0.0045	U	0.0042	U	0.0037	U	0.0044	U	0.0056	U	0.004	U	0.0036	U	0.004	U	0.0045	U	0.0038	U	0.0046	U	2.1	U	0.0039	U	0.004	U
cis-1,2-Dichloroethene	156-59-2	0.25	100	0.064	U	0.00098	U	0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.00099	U	0.0009	U	0.001	U	0.0011	U	0.00096	U	0.0011	U	0.53	U	0.00098	U	0.00099	U
cis-1,3-Dichloropropene	10061-01-5	NS	NS	0.032	U	0.00049	U	0.00046	U	0.00057	U	0.00052	U	0.00047	U	0.00055	U	0.0007	U	0.0005	U	0.00045	U	0.00051	U	0.00056	U	0.00048	U	0.00057	U	0.27	U	0.00049	U	0.0005	U
Dibromochloromethane	124-48-1	NS	NS	0.064	U	0.00098	U	0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.00099	U	0.0009	U	0.001	U	0.0011	U	0.00096	U	0.0011	U	0.53	U	0.00098	U	0.00099	U
Dibromomethane	74-95-3	NS	NS	0.13	U	0.002	U	0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.002	U	0.0018	U	0.002	U	0.0022	U	0.0019	U	0.0023	U	1.1	U	0.002	U	0.002	U
Dichlorodifluoromethane	75-71-8	NS	NS	0.64	U	0.0098	U	0.0092	U	0.011	U	0.01	U	0.0094	U	0.011	U	0.014	U	0.0099	U	0.009	U	0.01	U	0.011	U	0.0096	U	0.011	U	5.3	U	0.0098	U	0.0099	U
Ethyl ether	60-29-7	NS	NS	0.13	U	0.002	U	0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.002	U	0.0018	U	0.002	U	0.0022	U	0.0019	U	0.0023	U	1.1	U	0.002	U	0.002	U
Ethylbenzene	100-41-4	1	41	0.68		0.0011		0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.0013		0.0009	U	0.001	U	0.0011	U	0.00096	U	0.00024	J	0.53	U	0.00098	U	0.00099	U
Hexachlorobutadiene	87-68-3	NS	NS	0.25	U	0.0039	U	0.0037	U	0.0045	U	0.0042	U	0.0037	U	0.0044	U	0.0056	U	0.004	U	0.0036	U	0.004	U	0.0045	U	0.0038	U	0.0046	U	2.1	U	0.0039	U	0.004	U
Isopropylbenzene	98-82-8	NS	NS	0.61		0.00046	J	0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.12		0.0009	U	0.001	U	0.0011	U	0.00096	U	0.0011	U	3.4		0.00098	U	0.00099	U
Methyl tert butyl ether	1634-04-4	0.93	100	0.13	U	0.0002	J	0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.002	U	0.0018	U	0.002	U	0.0022	U	0.0019	U	0.0023	U	1.1	U	0.002	U	0.002	U
Methylene chloride	75-09-2	0.05	100	0.32	U	0.0049	U	0.0046	U	0.0057	U	0.0052	U	0.0047	U	0.0055	U	0.007	U	0.005	U	0.0045	U	0.0051	U	0.0056	U	0.0048	U	0.0057	U	2.7	U	0.0049	U	0.005	U
n-Butylbenzene	104-51-8	12	100	2.3		0.00031	J	0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.16		0.0009	U	0.001	U	0.0011	U	0.00096	U	0.00025	J	7		0.00098	U	0.00099	U
n-Propylbenzene	103-65-1	3.9	100	1.4		0.00046	J	0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.38	E	0.0009	U	0.001	U	0.0011	U	0.00096	U	0.0011	U	6.6		0.00098	U	0.00099	U
Naphthalene	91-20-3	12	100	15		0.014		0.002	J	0.0045	U	0.0042	U	0.0037	U	0.0044	U	0.0056	U	0.015		0.0036	U	0.0022	J	0.0024	J	0.0022	J	0.0035	J	0.89	J	0.0039	U	0.004	U
o-Chlorotoluene	95-49-8	NS	NS	0.13	U	0.002	U	0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.002	U	0.0018	U	0.002	U	0.0022	U	0.0019	U	0.0023	U	1.1	U	0.002	U	0.002	U
o-Xylene	95-47-6	NS	NS	0.68		0.00092	J	0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.00068	J	0.0009	U	0.001	U	0.0011	U	0.00096	U	0.00037	J	0.53	U	0.00098	U	0.00099	U
p-Chlorotoluene	106-43-4	NS	NS	0.13	U	0.002	U	0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.002	U	0.0018	U	0.002	U	0.0022	U	0.0019	U	0.0023	U	1.1	U	0.002	U	0.002	U
p-Diethylbenzene	105-05-5	NS	NS	1.7		0.0004	J	0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.2		0.0018	U	0.002	U	0.0022	U	0.0019	U	0.00039	J	3.6		0.002	U	0.002	U
p-Ethyltoluene	622-96-8	NS	NS	7.5		0.0054		0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.01		0.0018	U	0.002	U	0.0022	U	0.0019	U	0.00089	J	1.1	U	0.002	U	0.002	U
p-Isopropyltoluene	99-87-6	NS	NS	1.9		0.00058	J	0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.0024		0.0009	U	0.00066	J	0.0011	U	0.00096	U	0.00012	J	0.53	U	0.00098	U	0.00099	U
p/m-Xylene	179601-23-1	NS	NS	1.9		0.0061		0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.0054		0.0018	U	0.002	U	0.0022	U	0.0019	U	0.0023	U	1.1	U	0.002	U	0.002	U
sec-Butylbenzene	135-98-8	11	100	1.9		0.00075	J	0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.074		0.0009	U	0.001	U	0.0011	U	0.00096	U	0.00022	J	6		0.00098	U	0.00099	U
Styrene	100-42-5	NS	NS	0.064	U	0.00098	U	0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.00099	U	0.0009	U	0.001	U	0.0011	U	0.0006	J	0.0011	U	0.53	U	0.00098	U	0.00099	U
tert-Butylbenzene	98-06-6	5.9	100	0.22		0.00012	J	0.0018	U	0.0023	U	0.0021	U	0.0019	U	0.0022	U	0.0028	U	0.007		0.0018	U	0.002	U	0.0022	U	0.0019	U	0.0023	U	0.66	J	0.002	U	0.002	U
Tetrachloroethene	127-18-4	1.3	19	0.032	U	0.00049	U	0.00046	U	0.00057	U	0.00052	U	0.00047	U	0.00055	U	0.0007	U	0.0005	U	0.00045	U	0.00051	U	0.00056	U	0.00048	U	0.00057	U	0.27	U	0.00049	U	0.0005	U
Toluene	108-88-3	0.7	100	0.065		0.00098	U	0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.0007	J	0.0009	U	0.00063	J	0.0011	U	0.00096	U	0.0011	U	0.53	U	0.00098	U	0.00099	U
trans-1,2-Dichloroethene	156-60-5	0.19	100	0.096	U	0.0015	U	0.0014	U	0.0017	U	0.0016	U	0.0014	U	0.0016	U	0.0021	U	0.0015	U	0.0014	U	0.0015	U	0.0017	U	0.0014	U	0.0017	U	0.8	U	0.0015	U	0.0015	U
trans-1,3-Dichloropropene	10061-02-6	NS	NS	0.064	U	0.00098	U	0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.00099	U	0.0009	U	0.001	U	0.0011	U	0.00096	U	0.0011	U	0.53	U	0.00098	U	0.00099	U
trans-1,4-Dichloro-2-butene	110-57-6	NS	NS	0.32	U	0.0049	U	0.0046	U	0.0057	U	0.0052	U	0.0047	U	0.0055	U	0.007	U	0.005	U	0.0045	U	0.0051	U	0.0056	U	0.0048	U	0.0057	U	2.7	U	0.0049	U	0.005	U
Trichloroethene	79-01-6	0.47	21	0.032	U	0.00049	U	0.00046	U	0.00057	U	0.00052	U	0.00047	U	0.00055	U	0.0007	U	0.0005	U	0.00045	U	0.00051	U	0.00056	U	0.00048	U	0.00057	U	0.27	U	0.00049	U	0.0005	U
Trichlorofluoromethane	75-69-4	NS	NS	0.25	U	0.0039	U	0.0037	U	0.0045	U	0.0042	U	0.0037	U	0.0044	U	0.0056	U	0.004	U	0.0036	U	0.004	U	0.0045	U	0.0038	U	0.0046	U	2.1	U	0.0039	U	0.004	U
Vinyl acetate	108-05-4	NS	NS	0.64	U	0.0098	U	0.0092	U	0.011	U	0.01	U	0.0094	U	0.011	U	0.014	U	0.0099	U	0.009	U	0.01	U	0.011	U	0.0096	U	0.011	U	5.3	U	0.0098	U	0.0099	U
Vinyl chloride	75-01-4	0.02	0.9	0.064	U	0.00098	U	0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.00099	U	0.0009	U	0.001	U	0.0011	U	0.00096	U	0.0011	U	0.53	U	0.00098	U	0.00099	U
Xylenes, Total	1330-20-7	0.26	100	2.6		0.007	J	0.00092	U	0.0011	U	0.001	U	0.00094	U	0.0011	U	0.0014	U	0.0061	J	0.0009	U	0.001	U	0.0011	U	0.00096	U	0.00037	J	0.53	U	0.00098	U	0.00099	U

Notes:
(1) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use of S
(2) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use of Soi
Blind duplicates: DUP001 = SB007 (3-5') and DUP002 = SB005 (0-2')
NS - No standard
J - Estimated Value
U - The compound was not detected at the indicated concentration.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear rang
Shaded text denotes concentrations exceeding NYSDEC Unrestricted Use
Shaded text denotes concentrations exceeding NYSDEC Restricted Residential Use

Table 2
Soil SVOC Analytical Data
731-747 4th Avenue, Brooklyn, NY

Sample ID: Sample Depth: Sampling Date: Lab Sample ID:	CAS Number	NYSDEC (1) Soil Cleanup Objectives Unrestricted Use	NYSDEC (2) Soil Cleanup Objectives Restricted Residential Use	SB001 0-2' 3/1/2022 L2210848-14	SB001 0-2' 3/1/2022 L2210848-14R1	SB001 4-6' 3/1/2022 L2210848-15	SB001 4-6' 3/1/2022 L2210848-15R1	SB002 2-4' 3/1/2022 L2210848-30	SB002 6-8' 3/1/2022 L2210848-17	SB002 18-20' 3/1/2022 L2210848-19	SB003 3-5' 3/1/2022 L2210848-22	SB003 9-11' 3/1/2022 L2210848-27	SB003 15-17' 3/1/2022 L2210848-20	SB003 20-22' 3/1/2022 L2210848-28	SB004 2-4' 3/1/2022 L2210848-18	SB004 6-8' 3/1/2022 L2211451-03	SB005 0-2 3/1/2022 L2210848-13
Semi Volatile Organic Compounds by EPA Method 8270 in mg/Kg																	
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
1,2-Dichlorobenzene	95-50-1	1.1	100	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
1,3-Dichlorobenzene	541-73-1	2.4	49	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
1,4-Dichlorobenzene	106-46-7	1.8	13	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
1,4-Dioxane	123-91-1	0.1	13	0.026 U	0.026 U	0.027 U	0.027 U	0.028 U	0.029 U	0.026 U	0.028 U	0.029 U	0.025 U	0.027 U	0.028 U	0.03 U	0.028 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	0.1 U	0.1 U	0.11 U	0.11 U	0.11 U	0.12 U	0.11 U	0.11 U	0.12 U	0.1 U	0.11 U	0.11 U	0.12 U	0.11 U
2,4-Dichlorophenol	120-83-2	NS	NS	0.16 U	0.15 U	0.16 U	0.16 U	0.17 U	0.17 U	0.16 U	0.17 U	0.17 U	0.15 U	0.16 U	0.17 U	0.18 U	0.17 U
2,4-Dimethylphenol	105-67-9	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
2,4-Dinitrophenol	51-28-5	NS	NS	0.83 U	0.82 U	0.88 U	0.88 U	0.9 U	0.93 U	0.85 U	0.9 U	0.92 U	0.81 U	0.87 U	0.9 U	0.96 U	0.89 U
2,4-Dinitrotoluene	121-14-2	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
2,6-Dinitrotoluene	606-20-2	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
2-Chloronaphthalene	91-58-7	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
2-Chlorophenol	95-57-8	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
2-Methylnaphthalene	91-57-6	NS	NS	0.21 U	0.2 U	0.061 J	0.026 J	0.23 U	0.23 U	0.21 U	0.24	0.11 J	0.2 U	0.22 U	0.22 U	0.24 U	0.22 U
2-Methylphenol	95-48-7	0.33	100	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
2-Nitroaniline	88-74-4	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
2-Nitrophenol	88-75-5	NS	NS	0.37 U	0.37 U	0.4 U	0.39 U	0.41 U	0.42 U	0.38 U	0.4 U	0.42 U	0.37 U	0.39 U	0.4 U	0.43 U	0.4 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	0.33	100	0.25 U	0.25 U	0.26 U	0.26 U	0.27 U	0.28 U	0.26 U	0.04 J	0.28 U	0.24 U	0.26 U	0.27 U	0.29 U	0.27 U
3-Nitroaniline	99-09-2	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
4,6-Dinitro-o-cresol	534-52-1	NS	NS	0.45 U	0.44 U	0.48 U	0.48 U	0.49 U	0.5 U	0.46 U	0.49 U	0.5 U	0.44 U	0.47 U	0.48 U	0.52 U	0.48 U
4-Bromophenyl phenyl ether	101-55-3	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
4-Chloroaniline	106-47-8	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
4-Chlorophenyl phenyl ether	7005-72-3	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
4-Nitroaniline	100-01-6	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
4-Nitrophenol	100-02-7	NS	NS	0.24 U	0.24 U	0.26 U	0.26 U	0.26 U	0.27 U	0.25 U	0.26 U	0.27 U	0.24 U	0.25 U	0.26 U	0.28 U	0.26 U
Acenaphthene	83-32-9	20	100	0.14 U	0.14 U	0.15	0.057 J	0.028 J	0.15 U	0.14 U	0.45	0.085 J	0.14 U	0.14 U	0.15 U	0.16 U	0.15 U
Acenaphthylene	208-96-8	100	100	0.14 U	0.14 U	0.083 J	0.06 J	0.11 J	0.15 U	0.14 U	0.1 J	0.1 J	0.14 U	0.14 U	0.15 U	0.16 U	0.15 U
Acetophenone	98-86-2	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
Anthracene	120-12-7	100	100	0.034 J	0.1 U	0.4	0.16	0.14	0.12 U	0.11 U	1.4	0.37	0.1 U	0.11 U	0.11 U	0.12 U	0.11 U
Benzo(a)anthracene	56-55-3	1	1	0.1	0.11	0.91	0.45	0.7	0.12 U	0.11 U	3.1	0.93	0.1 U	0.11 U	0.021 J	0.12 U	0.15
Benzo(a)pyrene	50-32-8	1	1	0.089 J	0.1 J	1.1	0.63	0.83	0.15 U	0.14 U	2.9	0.9	0.14 U	0.14 U	0.15 U	0.16 U	0.15
Benzo(b)fluoranthene	205-99-2	1	1	0.1	0.13	1	0.53	0.99	0.12 U	0.11 U	3.5	1.2	0.1 U	0.11 U	0.11 U	0.12 U	0.19
Benzo(ghi)perylene	191-24-2	100	100	0.059 J	0.083 J	0.8	0.67	0.73	0.15 U	0.14 U	1.8	0.62	0.14 U	0.14 U	0.15 U	0.16 U	0.16
Benzo(k)fluoranthene	207-08-9	0.8	3.9	0.046 J	0.039 J	0.28	0.17	0.25	0.12 U	0.11 U	0.9	0.33	0.1 U	0.11 U	0.11 U	0.12 U	0.058 J
Benzoic Acid	65-85-0	NS	NS	0.56 U	0.56 U	0.59 U	0.59 U	0.61 U	0.63 U	0.57 U	0.61 U	0.62 U	0.55 U	0.58 U	0.6 U	0.64 U	0.6 U
Benzyl Alcohol	100-51-6	NS	NS	0.17 U	0.052 J	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
Biphenyl	92-52-4	NS	NS	0.4 U	0.39 U	0.42 U	0.42 U	0.43 U	0.44 U	0.4 U	0.067 J	0.038 J	0.39 U	0.41 U	0.43 U	0.45 U	0.42 U
Bis(2-chloroethoxy)methane	111-91-1	NS	NS	0.19 U	0.18 U	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U	0.2 U	0.21 U	0.18 U	0.2 U	0.2 U	0.22 U	0.2 U
Bis(2-chloroethyl)ether	111-44-4	NS	NS	0.16 U	0.15 U	0.16 U	0.16 U	0.17 U	0.17 U	0.16 U	0.17 U	0.17 U	0.15 U	0.16 U	0.17 U	0.18 U	0.17 U
Bis(2-chloroisopropyl)ether	108-60-1	NS	NS	0.21 U	0.2 U	0.22 U	0.22 U	0.23 U	0.23 U	0.21 U	0.22 U	0.23 U	0.2 U	0.22 U	0.22 U	0.24 U	0.22 U
Bis(2-ethylhexyl)phthalate	117-81-7	NS	NS	0.61	0.26	0.19	0.096 J	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
Butyl benzyl phthalate	85-68-7	NS	NS	0.48	0.44	0.28	0.16 J	0.19 U	0.19 U	0.18 U	0.19 U	0.2	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
Carbazole	86-74-8	NS	NS	0.17 U	0.17 U	0.15 J	0.062 J	0.064 J	0.19 U	0.18 U	0.66	0.19	0.17 U	0.18 U	0.19 U	0.2 U	0.019 J
Chrysene	218-01-9	1	3.9	0.1	0.092 J	0.95	0.5	0.72	0.12 U	0.11 U	2.8	0.85	0.1 U	0.11 U	0.019 J	0.12 U	0.16
Di-n-butylphthalate	84-74-2	NS	NS	0.11 J	0.078 J	0.045 J	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
Di-n-octylphthalate	117-84-0	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	0.1 U	0.1 U	0.15	0.096 J	0.23	0.12 U	0.11 U	0.39	0.14	0.1 U	0.11 U	0.11 U	0.12 U	0.032 J
Dibenzofuran	132-64-9	7	59	0.17 U	0.17 U	0.1 J	0.041 J	0.028 J	0.19 U	0.18 U	0.46	0.11 J	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
Diethyl phthalate	84-66-2	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
Dimethyl phthalate	131-11-3	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.063 J	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
Fluoranthene	206-44-0	100	100	0.17	0.18	1.5	0.82	1.3	0.12 U	0.11 U	5.7	1.8	0.1 U	0.11 U	0.029 J	0.12 U	0.24
Fluorene	86-73-7	30	100	0.17 U	0.17 U	0.11 J	0.053 J	0.033 J	0.19 U	0.18 U	0.65	0.14 J	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
Hexachlorobenzene	118-74-1	0.33	1.2	0.1 U	0.1 U	0.11 U	0.11 U	0.11 U	0.12 U	0.11 U	0.11 U	0.12 U	0.1 U	0.11 U	0.11 U	0.12 U	0.11 U
Hexachlorobutadiene	87-68-3	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	0.5 U	0.49 U	0.52 U	0.52 U	0.54 U	0.55 U	0.51 U	0.54 U	0.55 U	0.48 U	0.52 U	0.53 U	0.57 U	0.53 U
Hexachloroethane	67-72-1	NS	NS	0.14 U	0.14 U	0.15 U	0.15 U	0.15 U	0.15 U	0.14 U	0.15 U	0.15 U	0.14 U	0.14 U	0.15 U	0.16 U	0.15 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	0.048 J	0.07 J	0.55	0.32	0.67	0.15 U	0.14 U	1.9	0.74	0.14 U	0.14 U	0.15 U	0.16 U	0.14 J
Isophorone	78-59-1	NS	NS	0.16 U	0.15 U	0.16 U	0.16 U	0.17 U	0.17 U	0.16 U	0.17 U	0.17 U	0.15 U	0.16 U	0.17 U	0.18 U	0.17 U
n-Nitrosodi-n-propylamine	621-64-7	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
Naphthalene	91-20-3	12	100	0.17 U	0.17 U	0.12 J	0.042 J	0.052 J	0.19 U	0.18 U	0.32	0.12 J	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
NDPA/DPA	86-30-6	NS	NS	0.14 U	0.14 U	0.15 U	0.15 U	0.15 U	0.15 U	0.14 U	0.15 U	0.15 U	0.14 U	0.14 U	0.15 U	0.16 U	0.15 U
Nitrobenzene	98-95-3	NS	NS	0.16 U	0.15 U	0.16 U	0.16 U	0.17 U	0.17 U	0.16 U	0.17 U	0.17 U	0.15 U	0.16 U	0.17 U	0.18 U	0.17 U
p-Chloro-m-cresol	59-50-7	NS	NS	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
Pentachlorophenol	87-86-5	0.8	6.7	0.14 U	0.14 U	0.15 U	0.15 U	0.15 U	0.15 U	0.14 U	0.15 U	0.15 U	0.14 U	0.14 U	0.15 U	0.16 U	0.15 U
Phenanthrene	85-01-8	100	100	0.13	0.096 J	1.4	0.58	0.55	0.12 U	0.11 U	5.7	1.4	0.1 U	0.11 U	0.026 J	0.12 U	0.13
Phenol	108-95-2	0.33	100	0.17 U	0.17 U	0.18 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.2 U	0.18 U
Pyrene	129-00-0	100	100	0.16	0.17	1.4	0.72	1.2	0.12 U	0.11 U	5.1	1.5	0.1 U	0.11 U	0.025 J	0.12 U	0.2

Notes:
(1) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use of Soil Cleanup Objective Table 375-6.8a 12/06
(2) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use of Soil Cleanup Objective Table 375-6.8b 12/06
NS - No standard
NA - Not Analyzed
J - Estimated Value
U - The compound was not detected at the indicated concentration.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
Blind duplicates: DUP001 = SB007 (3-5') and DUP002 = SB005 (0-2')
Shaded text denotes concentrations exceeding NYSDEC Unrestricted Use
Shaded text denotes concentrations exceeding NYSDEC Restricted Residential Use

Table 2
Soil SVOC Analytical Data
731-747 4th Avenue, Brooklyn, NY

Sample ID: Sample Depth: Sampling Date: Lab Sample ID:	CAS Number	NYSDEC (1) Soil Cleanup Objectives Unrestricted Use	NYSDEC (2) Soil Cleanup Objectives Restricted Residential Use	SB005 0-2' 3/1/2022 L2210848-13R1		SB005 8-10' 3/1/2022 L2210848-16		SB005 12-14' 3/1/2022 L2210848-29		SB005 15-17' 3/1/2022 L2211451-01		SB006 3-4' 3/1/2022 L2210848-04		SB006 4-6' 3/1/2022 L2210848-03		SB007 3-5' 3/1/2022 L2210848-05		SB007 7-9' 3/1/2022 L2210848-06		SB007 18-20' 3/1/2022 L2210848-07		SB008 0-2' 3/1/2022 L2210848-09		SB008 2-4' 3/1/2022 L2210848-12		SB008 6-8' 3/1/2022 L2210848-10		SB008 12-14' 3/1/2022 L2210848-02		SB009 3-5' 3/1/2022 L2210848-32	
Semi Volatile Organic Compounds by EPA Method 8270 in mg/Kg																															
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
1,2-Dichlorobenzene	95-50-1	1.1	100	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
1,3-Dichlorobenzene	541-73-1	2.4	49	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
1,4-Dichlorobenzene	106-46-7	1.8	13	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
1,4-Dioxane	123-91-1	0.1	13	0.028	U	0.027	U	0.028	U	0.027	U	0.027	U	0.027	U	0.028	U	0.14	U	0.027	U	0.027	U	0.028	U	0.028	U	0.028	U	0.026	U
2,4,5-Trichlorophenol	95-95-4	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
2,4,6-Trichlorophenol	88-06-2	NS	NS	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.58	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U
2,4-Dichlorophenol	120-83-2	NS	NS	0.17	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.17	U	0.86	U	0.16	U	0.16	U	0.17	U	0.17	U	0.17	U	0.16	U
2,4-Dimethylphenol	105-67-9	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
2,4-Dinitrophenol	51-28-5	NS	NS	0.89	U	0.87	U	0.88	U	0.87	U	0.85	U	0.86	U	0.89	U	4.6	U	0.88	U	0.85	U	0.89	U	0.91	U	0.9	U	0.84	U
2,4-Dinitrotoluene	121-14-2	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
2,6-Dinitrotoluene	606-20-2	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
2-Chloronaphthalene	91-58-7	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
2-Chlorophenol	95-57-8	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
2-Methylnaphthalene	91-57-6	NS	NS	0.22	U	0.22	U	0.22	U	0.22	U	0.21	U	0.21	U	0.22	U	29		6.8		0.21	U	0.22	U	0.23	U	0.22	U	0.21	U
2-Methylphenol	95-48-7	0.33	100	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
2-Nitroaniline	88-74-4	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
2-Nitrophenol	88-75-5	NS	NS	0.4	U	0.39	U	0.4	U	0.39	U	0.38	U	0.39	U	0.4	U	2.1	U	0.4	U	0.38	U	0.4	U	0.41	U	0.4	U	0.38	U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	0.33	100	0.27	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.27	U	1.4	U	0.26	U	0.26	U	0.27	U	0.27	U	0.27	U	0.25	U
3-Nitroaniline	99-09-2	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
4,6-Dinitro-o-cresol	534-52-1	NS	NS	0.48	U	0.47	U	0.48	U	0.47	U	0.46	U	0.46	U	0.48	U	2.5	U	0.48	U	0.46	U	0.48	U	0.49	U	0.49	U	0.46	U
4-Bromophenyl phenyl ether	101-55-3	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
4-Chloroaniline	106-47-8	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
4-Chlorophenyl phenyl ether	7005-72-3	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
4-Nitroaniline	100-01-6	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
4-Nitrophenol	100-02-7	NS	NS	0.26	U	0.25	U	0.26	U	0.25	U	0.25	U	0.25	U	0.26	U	1.3	U	0.26	U	0.25	U	0.26	U	0.26	U	0.26	U	0.25	U
Acenaphthene	83-32-9	20	100	0.15	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.15	U	1.7		0.32		0.14	U	0.15	U	0.15	U	0.15	U	0.14	U
Acenaphthylene	208-96-8	100	100	0.15	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.15	U	0.77	U	0.15	U	0.14	U	0.15	U	0.15	U	0.15	U	0.14	U
Acetophenone	98-86-2	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
Anthracene	120-12-7	100	100	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.62		0.094	J	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U
Benzo(a)anthracene	56-55-3	1	1	0.098	J	0.041	J	0.11	U	0.11	U	0.029	J	0.11	U	0.11	U	0.58	U	0.11	U	0.028	J	0.11	U	0.11	U	0.11	U	0.12	
Benzo(a)pyrene	50-32-8	1	1	0.1	J	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.15	U	0.77	U	0.15	U	0.14	U	0.15	U	0.15	U	0.15	U	0.15	
Benzo(b)fluoranthene	205-99-2	1	1	0.12		0.04	J	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.58	U	0.11	U	0.032	J	0.11	U	0.11	U	0.11	U	0.18	
Benzo(ghi)perylene	191-24-2	100	100	0.068	J	0.03	J	0.15	U	0.14	U	0.14	U	0.14	U	0.15	U	0.77	U	0.15	U	0.14	U	0.15	U	0.15	U	0.15	U	0.1	J
Benzo(k)fluoranthene	207-08-9	0.8	3.9	0.042	J	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.58	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.063	J
Benzoic Acid	65-85-0	NS	NS	0.6	U	0.59	U	0.59	U	0.59	U	0.58	U	0.58	U	0.6	U	3.1	U	0.59	U	0.57	U	0.6	U	0.61	U	0.61	U	0.57	U
Benzyl Alcohol	100-51-6	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
Biphenyl	92-52-4	NS	NS	0.42	U	0.41	U	0.42	U	0.42	U	0.4	U	0.41	U	0.42	U	1.9	J	0.44		0.4	U	0.42	U	0.43	U	0.43	U	0.4	U
Bis(2-chloroethoxy)methane	111-91-1	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U	1	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.19	U
Bis(2-chloroethyl)ether	111-44-4	NS	NS	0.17	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.17	U	0.86	U	0.16	U	0.16	U	0.17	U	0.17	U	0.17	U	0.16	U
Bis(2-chloroisopropyl)ether	108-60-1	NS	NS	0.22	U	0.22	U	0.22	U	0.22	U	0.21	U	0.21	U	0.22	U	1.2	U	0.22	U	0.21	U	0.22	U	0.23	U	0.22	U	0.21	U
Bis(2-ethylhexyl)phthalate	117-81-7	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.072	J	0.089	J	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
Butyl benzyl phthalate	85-68-7	NS	NS	0.18	U	0.094	J	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
Carbazole	86-74-8	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
Chrysene	218-01-9	1	3.9	0.099	J	0.037	J	0.11	U	0.11	U	0.024	J	0.11	U	0.11	U	0.58	U	0.11	U	0.032	J	0.11	U	0.11	U	0.11	U	0.11	
Di-n-butylphthalate	84-74-2	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
Di-n-octylphthalate	117-84-0	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.58	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.022	J
Dibenzofuran	132-64-9	7	59	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	1.2		0.23		0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
Diethyl phthalate	84-66-2	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
Dimethyl phthalate	131-11-3	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
Fluoranthene	206-44-0	100	100	0.21		0.069	J	0.11	U	0.11	U	0.056	J	0.11	U	0.11	U	0.13	J	0.11	U	0.061	J	0.11	U	0.11	U	0.11	U	0.17	
Fluorene	86-73-7	30	100	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	3.1		0.52		0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
Hexachlorobenzene	118-74-1	0.33	1.2	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.58	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U
Hexachlorobutadiene	87-68-3	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
Hexachlorocyclopentadiene	77-47-4	NS	NS	0.53	U	0.52	U	0.52	U	0.52	U	0.51	U	0.51	U	0.53	U	2.7	U	0.52	U	0.51	U	0.53	U	0.54	U	0.54	U	0.5	U
Hexachloroethane	67-72-1	NS	NS	0.15	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.15	U	0.77	U	0.15	U	0.14	U	0.15	U	0.15	U	0.15	U	0.14	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	0.078	J	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.15	U	0.77	U	0.15	U	0.14	U	0.15	U	0.15	U	0.15	U	0.12	J
Isophorone	78-59-1	NS	NS	0.17	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.17	U	0.86	U	0.16	U	0.16	U	0.17	U	0.17	U	0.17	U	0.16	U
n-Nitrosodi-n-propylamine	621-64-7	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
Naphthalene	91-20-3	12	100	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	5.2		1.5		0.18	U	0.18	U	0.19	U	0.19	U	0.021	J
NDPA/DPA	86-30-6	NS	NS	0.15	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.15	U	0.77	U	0.15	U	0.14	U	0.15	U	0.15	U	0.15	U	0.14	U
Nitrobenzene	98-95-3	NS	NS	0.17	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.17	U	0.86	U	0.16	U	0.16	U	0.17	U	0.17	U	0.17	U	0.16	U
p-Chloro-m-cresol	59-50-7	NS	NS	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
Pentachlorophenol	87-86-5	0.8	6.7	0.15	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.15	U	0.77	U	0.15	U	0.14	U	0.15	U	0.15	U	0.15	U	0.14	U
Phenanthrene	85-01-8	100	100	0.13		0.063	J	0.11	U	0.11	U	0.041	J	0.11	U	0.11	U	4.8		0.94		0.042	J	0.11	U	0.11	U	0.11	U	0.052	J
Phenol	108-95-2	0.33	100	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.96	U	0.18	U	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U
Pyrene	129-00-0	100	100	0.18		0.058	J	0.11	U	0.11	U	0.047	J	0.11	U	0.11	U	0.53	J	0.059	J	0.052	J	0.11	U	0.11	U	0.11	U	0.16	

Notes:
(1) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use of Soil Cleanup
(2) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use of Soil Cleanup Ot
NS - No standard
NA - Not Analyzed
J - Estimated Value
U - The compound was not detected at the indicated concentration.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the inst
Blind duplicates: DUP001 = SB007 (3-5') and DUP002 = SB005 (0-2')
Shaded text denotes concentrations exceeding NYSDEC Unrestricted Use
Shaded text denotes concentrations exceeding NYSDEC Restricted Residential Use

Table 2
Soil SVOC Analytical Data
731-747 4th Avenue, Brooklyn, NY

Sample ID: Sample Depth: Sampling Date: Lab Sample ID:	CAS Number	NYSDEC (1) Soil Cleanup Objectives Unrestricted Use	NYSDEC (2) Soil Cleanup Objectives Restricted Residential Use	SB009 5-7' 3/1/2022 L2211451-02		SB009 9-11' 3/1/2022 L2210848-31		SB010 0-2' 3/1/2022 L2210848-01		SB010 4-6' 3/1/2022 L2210848-25		SB010 8-10' 3/1/2022 L2210848-26		SB011 0-2' 3/1/2022 L2210848-21		SB011 6-8' 3/1/2022 L2210848-24		SB011 18-20' 3/1/2022 L2210848-23		DUP001 3-5' 3/1/2022 L2210848-08		DUP002 0-2' 3/1/2022 L2210848-11		DUP002 0-2' 3/1/2022 L2210848-11R1	
Semi Volatile Organic Compounds by EPA Method 8270 in mg/Kg																									
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
1,2-Dichlorobenzene	95-50-1	1.1	100	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
1,3-Dichlorobenzene	541-73-1	2.4	49	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
1,4-Dichlorobenzene	106-46-7	1.8	13	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
1,4-Dioxane	123-91-1	0.1	13	0.028	U	0.029	U	0.027	U	0.027	U	0.028	U	0.14	U	0.029	U	0.27	U	0.029	U	0.028	U	0.028	U
2,4,5-Trichlorophenol	95-95-4	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
2,4,6-Trichlorophenol	88-06-2	NS	NS	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U	0.57	U	0.12	U	1.1	U	0.12	U	0.11	U	0.11	U
2,4-Dichlorophenol	120-83-2	NS	NS	0.17	U	0.17	U	0.16	U	0.16	U	0.17	U	0.85	U	0.18	U	1.6	U	0.17	U	0.16	U	0.17	U
2,4-Dimethylphenol	105-67-9	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
2,4-Dinitrophenol	51-28-5	NS	NS	0.89	U	0.93	U	0.86	U	0.86	U	0.89	U	4.5	U	0.94	U	8.8	U	0.93	U	0.88	U	0.89	U
2,4-Dinitrotoluene	121-14-2	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
2,6-Dinitrotoluene	606-20-2	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
2-Chloronaphthalene	91-58-7	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
2-Chlorophenol	95-57-8	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
2-Methylnaphthalene	91-57-6	NS	NS	0.22	U	0.23	U	0.22	U	0.22	U	0.22	U	1.1	U	1.4		54		0.23	U	0.22	U	0.22	U
2-Methylphenol	95-48-7	0.33	100	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
2-Nitroaniline	88-74-4	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
2-Nitrophenol	88-75-5	NS	NS	0.4	U	0.42	U	0.39	U	0.39	U	0.4	U	2	U	0.42	U	3.9	U	0.42	U	0.4	U	0.4	U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	0.33	100	0.27	U	0.28	U	0.26	U	0.26	U	0.27	U	1.4	U	0.28	U	2.6	U	0.28	U	0.26	U	0.27	U
3-Nitroaniline	99-09-2	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
4,6-Dinitro-o-cresol	534-52-1	NS	NS	0.48	U	0.5	U	0.47	U	0.47	U	0.48	U	2.4	U	0.51	U	4.7	U	0.5	U	0.48	U	0.48	U
4-Bromophenyl phenyl ether	101-55-3	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
4-Chloroaniline	106-47-8	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
4-Chlorophenyl phenyl ether	7005-72-3	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
4-Nitroaniline	100-01-6	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
4-Nitrophenol	100-02-7	NS	NS	0.26	U	0.27	U	0.25	U	0.25	U	0.26	U	1.3	U	0.28	U	2.6	U	0.27	U	0.26	U	0.26	U
Acenaphthene	83-32-9	20	100	0.15	U	0.16	U	0.024	J	0.045	J	0.15	U	0.76	U	0.2		1.9		0.15	U	0.15	U	0.15	U
Acenaphthylene	208-96-8	100	100	0.15	U	0.16	U	0.14	U	0.067	J	0.15	U	0.76	U	0.16	U	1.5	U	0.15	U	0.15	U	0.15	U
Acetophenone	98-86-2	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
Anthracene	120-12-7	100	100	0.11	U	0.12	U	0.07	J	0.2		0.11	U	0.57	U	0.12		0.86	J	0.12	U	0.04	J	0.051	J
Benzo(a)anthracene	56-55-3	1	1	0.11	U	0.12	U	0.3		0.73		0.049	J	0.55	J	0.12	U	1.1	U	0.12	U	0.16		0.22	
Benzo(a)pyrene	50-32-8	1	1	0.15	U	0.16	U	0.36		0.73		0.079	J	0.52	J	0.16	U	1.5	U	0.15	U	0.18		0.25	
Benzo(b)fluoranthene	205-99-2	1	1	0.11	U	0.12	U	0.46		0.84		0.093	J	0.98		0.12	U	1.1	U	0.12	U	0.22		0.32	
Benzo(ghi)perylene	191-24-2	100	100	0.15	U	0.16	U	0.33		0.49		0.088	J	0.47	J	0.16	U	1.5	U	0.15	U	0.14	J	0.2	
Benzo(k)fluoranthene	207-08-9	0.8	3.9	0.11	U	0.12	U	0.16		0.28		0.11	U	0.3	J	0.12	U	1.1	U	0.12	U	0.08	J	0.086	J
Benzoic Acid	65-85-0	NS	NS	0.6	U	0.63	U	0.58	U	0.58	U	0.6	U	3	U	0.64	U	5.9	U	0.63	U	0.6	U	0.6	U
Benzyl Alcohol	100-51-6	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
Biphenyl	92-52-4	NS	NS	0.42	U	0.44	U	0.41	U	0.41	U	0.42	U	2.2	U	0.45	U	4.2	U	0.44	U	0.42	U	0.42	U
Bis(2-chloroethoxy)methane	111-91-1	NS	NS	0.2	U	0.21	U	0.19	U	0.19	U	0.2	U	1	U	0.21	U	2	U	0.21	U	0.2	U	0.2	U
Bis(2-chloroethyl)ether	111-44-4	NS	NS	0.17	U	0.17	U	0.16	U	0.16	U	0.17	U	0.85	U	0.18	U	1.6	U	0.17	U	0.16	U	0.17	U
Bis(2-chloroisopropyl)ether	108-60-1	NS	NS	0.22	U	0.23	U	0.22	U	0.22	U	0.22	U	1.1	U	0.24	U	2.2	U	0.23	U	0.22	U	0.22	U
Bis(2-ethylhexyl)phthalate	117-81-7	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
Butyl benzyl phthalate	85-68-7	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.076	J
Carbazole	86-74-8	NS	NS	0.19	U	0.19	U	0.045	J	0.11	J	0.19	U	0.13	J	0.2	U	1.8	U	0.19	U	0.024	J	0.027	J
Chrysene	218-01-9	1	3.9	0.11	U	0.12	U	0.37		0.67		0.052	J	1		0.12	U	1.1	U	0.12	U	0.19		0.22	
Di-n-butylphthalate	84-74-2	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
Di-n-octylphthalate	117-84-0	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	0.11	U	0.12	U	0.058	J	0.08	J	0.11	U	0.12	J	0.12	U	1.1	U	0.12	U	0.032	J	0.036	J
Dibenzofuran	132-64-9	7	59	0.19	U	0.19	U	0.18	U	0.026	J	0.19	U	0.94	U	0.2	U	2.3		0.19	U	0.18	U	0.18	U
Diethyl phthalate	84-66-2	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
Dimethyl phthalate	131-11-3	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
Fluoranthene	206-44-0	100	100	0.11	U	0.12	U	0.7		1.8		0.08	J	1.5		0.032	J	1.1	U	0.12	U	0.27		0.41	
Fluorene	86-73-7	30	100	0.19	U	0.19	U	0.02	J	0.056	J	0.19	U	0.94	U	0.42		3.8		0.19	U	0.18	U	0.18	U
Hexachlorobenzene	118-74-1	0.33	1.2	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U	0.57	U	0.12	U	1.1	U	0.12	U	0.11	U	0.11	U
Hexachlorobutadiene	87-68-3	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
Hexachlorocyclopentadiene	77-47-4	NS	NS	0.53	U	0.56	U	0.51	U	0.51	U	0.53	U	2.7	U	0.56	U	5.2	U	0.55	U	0.52	U	0.53	U
Hexachloroethane	67-72-1	NS	NS	0.15	U	0.16	U	0.14	U	0.14	U	0.15	U	0.76	U	0.16	U	1.5	U	0.15	U	0.15	U	0.15	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	0.15	U	0.16	U	0.31		0.56		0.08	J	0.53	J	0.16	U	1.5	U	0.15	U	0.14	J	0.2	
Isophorone	78-59-1	NS	NS	0.17	U	0.17	U	0.16	U	0.16	U	0.17	U	0.85	U	0.18	U	1.6	U	0.17	U	0.16	U	0.17	U
n-Nitrosodi-n-propylamine	621-64-7	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
Naphthalene	91-20-3	12	100	0.19	U	0.19	U	0.025	J	0.022	J	0.19	U	0.94	U	0.076	J	0.7	J	0.19	U	0.18	U	0.18	U
NDPA/DPA	86-30-6	NS	NS	0.15	U	0.16	U	0.14	U	0.14	U	0.15	U	0.76	U	0.16	U	1.5	U	0.15	U	0.15	U	0.15	U
Nitrobenzene	98-95-3	NS	NS	0.17	U	0.17	U	0.16	U	0.16	U	0.17	U	0.85	U	0.18	U	1.6	U	0.17	U	0.16	U	0.17	U
p-Chloro-m-cresol	59-50-7	NS	NS	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
Pentachlorophenol	87-86-5	0.8	6.7	0.15	U	0.16	U	0.14	U	0.14	U	0.15	U	0.76	U	0.16	U	1.5	U	0.15	U	0.15	U	0.15	U
Phenanthrene	85-01-8	100	100	0.11	U	0.12	U	0.36		1.1		0.045	J	1.1		0.69		8.3		0.12	U	0.18		0.21	
Phenol	108-95-2	0.33	100	0.19	U	0.19	U	0.18	U	0.18	U	0.19	U	0.94	U	0.2	U	1.8	U	0.19	U	0.18	U	0.18	U
Pyrene	129-00-0	100	100	0.11	U	0.12	U	0.6		1.6		0.08	J	1.2		0.031	J	0.53	J	0.12	U	0.22		0.35	

Notes:

(1) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use of Soil Cleanup

(2) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use of Soil Cleanup Ob

NS - No standard

NA - Not Analyzed

J - Estimated Value

U - The compound was not detected at the indicated concentration.

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

Blind duplicates: DUP001 = SB007 (3-5') and DUP002 = SB005 (0-2')

Shaded text denotes concentrations exceeding NYSDEC Unrestricted Use

Shaded text denotes concentrations exceeding NYSDEC Restricted Residential Use

Table 3
Soil Metal Analytical Data
731-747 4th Avenue, Brooklyn, NY

Sample ID: Sample Depth: Sampling Date: Lab Sample ID:	CAS Number	NYSDEC (1) Soil Cleanup Objectives Unrestricted Use	NYSDEC (2) Soil Cleanup Objectives Restricted	SB001 0-2' 3/1/2022 L2210848-14	SB001 4-6' 3/1/2022 L2210848-15	SB002 2-4' 3/1/2022 L2210848-30	SB002 6-8' 3/1/2022 L2210848-17	SB002 18-20' 3/1/2022 L2210848-19	SB003 3-5' 3/1/2022 L2210848-22	SB003 9-11' 3/1/2022 L2210848-27	SB003 15-17' 3/1/2022 L2210848-20	SB003 20-22' 3/1/2022 L2210848-28	SB004 2-4' 3/1/2022 L2210848-18	SB004 6-8' 3/1/2022 L2211451-03	SB005 0-2' 3/1/2022 L2210848-13	SB005 8-10' 3/1/2022 L2210848-16	SB005 12-14' 3/1/2022 L2210848-29	SB005 15-17' 3/1/2022 L2211451-01	SB006 3-4' 3/1/2022 L2210848-04	SB006 4-6' 3/1/2022 L2210848-03	SB007 3-5' 3/1/2022 L2210848-05
Total Metals by USEPA Method 6010C in mg/Kg																					
Aluminum, Total	7429-90-5	NS	NS	3,400	5,690	3,720	6,580	3,660	5,490	5,610	4,440	4,780	5,810	9,480	5,200	3,060	4,260	5,040	5,340	6,150	4,360
Antimony, Total	7440-36-0	NS	NS	4.2 U	4.34 U	9.45	4.44 U	4.13 U	1.12 J	2.09 J	4.09 U	4.31 U	4.41 U	4.56 U	4.44 U	4.21 U	4.41 U	4.19 U	4.2 U	4.17 U	4.33 U
Arsenic, Total	7440-38-2	13	16	1.36	5.04	23.5	3	1.36	6.64	7.7	1.31	2.86	2.39	4.59	1.43	3.22	1.6	2.42	2.7	2.06	2.98
Barium, Total	7440-39-3	350	400	36.5	133	188	20	30.7	194	232	38.6	40.3	38.2	32.5	35.6	26.3	25.8	38	21.8	26.3	19.9
Beryllium, Total	7440-41-7	7.2	72	0.151 J	0.304 J	0.24 J	0.293 J	0.331 J	0.361 J	0.32 J	0.27 J	0.233 J	0.397 J	0.41 J	0.329 J	0.202 J	0.256 J	0.294 J	0.344 J	0.426	0.294 J
Cadmium, Total	7440-43-9	2.5	4.3	0.236 J	0.408 J	2.58	0.888 U	0.827 U	1.22	1.29	0.818 U	0.863 U	0.882 U	0.109 J	0.888 U	0.556 J	0.088 J	0.117 J	0.84 U	0.835 U	0.866 U
Calcium, Total	7440-70-2	NS	NS	32,300	25,700	1,490	518	1,000	4,730	5,800	870	756	3,130	698	4,940	46,500	704	1,230	1,520	599	474
Chromium, Total	7440-47-3	NS	NS	10.2	16.4	25.8	11.6	10.4	13.2	15.5	12.6	12.1	9.75	13.7	13.6	7.1	12.8	12.4	9.36	9.97	7.34
Cobalt, Total	7440-48-4	NS	NS	2.18	4.4	9.74	3.21	4.22	5.15	6.13	4.93	4.58	4.71	6.98	5.22	2.66	4.34	5.51	5.02	6.74	4.3
Copper, Total	7440-50-8	50	270	16.8	38.2	274	8.41	8.38	149	226	15.9	14.8	8.12	6.09	11.7	10.6	9.58	12.7	7.83	10	6.18
Iron, Total	7439-89-6	NS	NS	5,090	12,700	186,000	9,110	8,980	15,000	21,800	9,860	9,200	11,000	15,700	13,500	7,080	7,270	10,700	10,100	10,600	10,500
Lead, Total	7439-92-1	63	400	35.6	307	1,940	7.94	9.1	568	716	6.55	7.14	16.5	7.64	28.6	56.2	5.98	5.51	11.9	6.54	7.68
Magnesium, Total	7439-95-4	NS	NS	2760	2350	771	1790	2320	1780	2110	2130	1710	2110	1710	2160	22200	1600	2170	1630	1740	1480
Manganese, Total	7439-96-5	1,600	2,000	101	228	564	65.8	214	185	207	180	172	217	224	241	123	104	202	148	126	179
Mercury, Toal	7439-97-6	0.18	0.81	0.077	0.773	1.52	0.081 U	0.077 U	1	1.8	0.076 U	0.074 U	0.082 U	0.076 U	0.075 J	0.114	0.073 J	0.072 U	0.073 U	0.074 U	0.074 U
Nickel, Total	7440-02-0	30	310	6.71	10.9	20	8.84	12.6	15.1	19.1	11.4	11.4	11	8.74	9.29	7.06	10.8	12.8	9.72	9.55	8.84
Potassium, Total	7440-09-7	NS	NS	661	569	146 J	419	914	472	673	1,170	852	962	421	802	424	659	1,160	447	528	296
Selenium, Total	7782-49-2	3.9	180	0.303 J	0.321 J	1.77 U	1.78 U	1.65 U	1.8 U	1.83 U	1.64 U	1.72 U	1.76 U	1.82 U	1.78 U	1.68 U	1.76 U	1.68 U	1.68 U	1.67 U	1.73 U
Silver, Total	7440-22-4	2	180	0.841 U	0.868 U	0.887 U	0.888 U	0.827 U	0.902 U	0.916 U	0.818 U	0.863 U	0.882 U	0.912 U	0.888 U	0.843 U	0.881 U	0.839 U	0.84 U	0.835 U	0.866 U
Sodium, Total	7440-23-5	NS	NS	200	165 J	87.2 J	55.2 J	78.9 J	112 J	157 J	68.8 J	81 J	166 J	291	152 J	140 J	83 J	131 J	63.2 J	73.1 J	80.4 J
Thallium, Total	7440-28-0	NS	NS	1.68 U	1.74 U	1.77 U	1.78 U	1.65 U	1.8 U	1.83 U	1.64 U	1.72 U	1.76 U	1.82 U	1.78 U	1.68 U	1.76 U	1.68 U	1.68 U	1.67 U	1.73 U
Vanadium, Total	7440-62-2	NS	NS	10.6	16.5	34.6	22.7	14.9	21.9	21	18.4	17.3	15.9	19.2	21	11.5	12.5	18.3	14.6	16.6	11.4
Zinc, Total	7440-66-6	109	10,000	54.5	203	635	44.8	28.6	457	567	29.3	28.9	33.4	29.8	47.8	59.3	25.4	27.2	26.8	22.4	22.6
Chromium by USEPA method 6010C in mg/kg																					
Chromium, Hexavalent	18540-29-9	1	110	0.222 J	0.894 U	0.242 J	0.932 U	0.872 U	0.917 U	1.37	0.343 J	0.295 J	3.73	0.963 U	0.18 J	0.899 U	0.908 U	0.32 J	0.875 U	0.87 U	0.181 J
Chromium, Trivalent	16065-83-1	30	180	10 J	16	26 J	12	10	13	14	12 J	12 J	6	14	13 J	7.1	13	12 J	9.4	10	7.2 J

Notes:
(1) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use of Soil Cleanup Objective Table 375-6.8a 12/06
(2) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use of Soil Cleanup Objective Table 375-6.8b 12/06
NS - No standard
NA - Not Analyzed
J - Estimated Value
U - The compound was not detected at the indicated concentration.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
Blind duplicates: DUP001 = SB007 (3-5') and DUP002 = SB005 (0-2')
Shaded text denotes concentrations exceeding NYSDEC Unrestricted Use
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Table 3
Soil Metal Analytical Data
731-747 4th Avenue, Brooklyn, NY

Sample ID: Sample Depth: Sampling Date: Lab Sample ID:	CAS Number	NYSDEC (1) Soil Cleanup Objectives Unrestricted Use	NYSDEC (2) Soil Cleanup Objectives Restricted	SB007 7-9' 3/1/2022 L2210848-06	SB007 18-20' 3/1/2022 L2210848-07	SB008 0-2' 3/1/2022 L2210848-09	SB008 2-4' 3/1/2022 L2210848-12	SB008 6-8' 3/1/2022 L2210848-10	SB008 12-14' 3/1/2022 L2210848-02	SB009 3-5' 3/1/2022 L2210848-32	SB009 5-7' 3/1/2022 L2211451-02	SB009 9-11' 3/1/2022 L2210848-31	SB010 0-2' 3/1/2022 L2210848-01	SB010 4-6' 3/1/2022 L2210848-25	SB010 8-10' 3/1/2022 L2210848-26	SB011 0-2' 3/1/2022 L2210848-21	SB011 6-8' 3/1/2022 L2210848-24	SB011 18-20' 3/1/2022 L2210848-23	DUP001 3-5' 3/1/2022 L2210848-08	DUP002 0-2' 3/1/2022 L2210848-11
Total Metals by USEPA Method 6010C in mg/Kg																					
Aluminum, Total	7429-90-5	NS	NS	6,040	3,030	4,200	5,960	4,910	4,700	5,200	4,540	4,060	4,170	3,920	3,440	7,780	5,360	2,470	4,460	5,130
Antimony, Total	7440-36-0	NS	NS	4.47 U	4.35 U	4.1 U	4.5 U	4.63 U	4.52 U	4.2 U	4.38 U	4.62 U	4.26 U	4.36 U	4.47 U	4.45 U	4.47 U	4.2 U	4.48 U	4.43 U
Arsenic, Total	7440-38-2	13	16	2.5	2.92	2.34	2.94	2.88	2.39	2.8	3.14	3.2	4.03	4.64	3.6	5.11	3.4	2.02	2.72	1.46
Barium, Total	7440-39-3	350	400	22.8	25.9	25.9	22.6	24.1	10.7	19.7	19.7	16.7	37.8	56.1	24.2	51.5	24.4	18	20.1	37.4
Beryllium, Total	7440-41-7	7.2	72	0.331 J	0.217 J	0.287 J	0.333 J	0.315 J	0.244 J	0.344 J	0.289 J	0.342 J	0.282 J	0.262 J	0.232 J	0.32 J	0.313 J	0.244 J	0.304 J	0.328 J
Cadmium, Total	7440-43-9	2.5	4.3	0.894 U	0.87 U	0.098 J	0.9 U	0.926 U	0.904 U	0.84 U	0.114 J	0.923 U	0.162 J	0.157 J	0.152 J	0.302 J	0.09 J	0.109 J	0.896 U	0.885 U
Calcium, Total	7440-70-2	NS	NS	517	518	11,000	592	522	266	582	1,410	443	38,300	8,830	1,640	6,220	2,970	771	677	8,600
Chromium, Total	7440-47-3	NS	NS	9.57	7.21	8.77	10.4	8.43	7.88	7.85	7.8	5.2	10.8	7.39	7.04	11.8	8.9	6.3	8.37	13.4
Cobalt, Total	7440-48-4	NS	NS	4.62	4.26	4	4.75	4.59	6.31	3.83	4.3	2.66	3.97	3.98	4.1	5.48	4.24	3.24	4.44	4.96
Copper, Total	7440-50-8	50	270	5.72	6.37	10.1	6.11	7.31	7.24	6.42	8.04	3.47	16.4	11.4	9.31	15	8.19	7.3	7.04	13
Iron, Total	7439-89-6	NS	NS	12,600	9,270	8,660	13,200	10,800	10,400	8,290	9,650	6,270	9,470	9,120	8,780	13,200	10,000	5,970	11,300	13,400
Lead, Total	7439-92-1	63	400	8.79	5.48	17.3	10	10.3	6.1	8.98	8.59	5.12	58.2	28.8	26.6	73.8	13.3	4.4	7.04	33.4
Magnesium, Total	7439-95-4	NS	NS	1590	1370	5220	1790	1730	1700	1340	1670	889	16900	4190	1560	3120	1660	1110	1740	2300
Manganese, Total	7439-96-5	1,600	2,000	224	327	158	246	143	110	117	279	79.4	219	193	196	231	108	337	181	236
Mercury, Toal	7439-97-6	0.18	0.81	0.079 U	0.07 U	0.066 J	0.072 U	0.079 U	0.072 U	0.072 U	0.081 U	0.083 U	0.168	0.062 J	0.067 J	0.087	0.08 U	0.079 U	0.084 U	0.135
Nickel, Total	7440-02-0	30	310	8.33	9.69	9.4	8.99	9.26	9.47	7.94	8.16	5.89	11.2	11.3	9.11	13.3	7.66	7.54	9.14	9.25
Potassium, Total	7440-09-7	NS	NS	350	270	690	347	321	304	269	387	171 J	725	445	378	439	368	406	446	908
Selenium, Total	7782-49-2	3.9	180	1.79 U	1.74 U	1.64 U	1.8 U	1.85 U	1.81 U	1.68 U	1.75 U	1.85 U	0.503 J	1.74 U	1.79 U	1.78 U	1.79 U	1.68 U	1.79 U	1.77 U
Silver, Total	7440-22-4	2	180	0.894 U	0.87 U	0.82 U	0.9 U	0.926 U	0.904 U	0.84 U	0.876 U	0.923 U	0.853 U	0.872 U	0.894 U	0.89 U	0.895 U	0.841 U	0.896 U	0.885 U
Sodium, Total	7440-23-5	NS	NS	84.2 J	32.6 J	135 J	183	169 J	137 J	133 J	127 J	63.6 J	230	96.1 J	79.5 J	167 J	117 J	73.3 J	84.4 J	171 J
Thallium, Total	7440-28-0	NS	NS	1.79 U	1.74 U	1.64 U	1.8 U	1.85 U	1.81 U	1.68 U	1.75 U	1.85 U	1.71 U	1.74 U	1.79 U	1.78 U	1.79 U	1.68 U	1.79 U	1.77 U
Vanadium, Total	7440-62-2	NS	NS	14.7	8.8	15	15.7	13.5	10.2	13.1	12.6	7.87	16.2	11.6	10.5	19.9	13.4	11.3	13.2	19.5
Zinc, Total	7440-66-6	109	10,000	25.1	22.4	44.3	23.2	24.5	23.5	22.1	24.8	15.1	52.6	35.8	31.7	65.3	24.2	17	24.5	47.9
Chromium by USEPA method 6010C in mg/kg																				
Chromium, Hexavalent	18540-29-9	1	110	0.944 U	0.89 U	0.874 U	0.906 U	0.928	0.908 U	0.862 U	0.92 U	0.948 U	0.173 J	0.299 J	0.914 U	0.911 U	0.943 U	0.883 U	0.936 U	0.305 J
Chromium, Trivalent	16065-83-1	30	180	9.6	7.2	8.8	10	8.4	7.9	7.8	7.8	5.2	11 J	7.1 J	7	12	8.9	6.3	8.4	13 J

Notes:
(1) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use
(2) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use of
NS - No standard
NA - Not Analyzed
J - Estimated Value
U - The compound was not detected at the indicated concentration.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear ra
Blind duplicates: DUP001 = SB007 (3-5') and DUP002 = SB005 (0-2')
Shaded text denotes concentrations exceeding NYSDEC Unrestricted Use
Shaded text denotes concentrations exceeding NYSDEC Restricted Residential Use

Table 4
Soil PCB, Pesticide, and General Chemistry Analytical Data
731-747 4th Avenue, Brooklyn, NY

Sample ID: Sample Depth: Sampling Date: Lab Sample ID:	CAS Number	NYSDEC (1) Soil Cleanup Objectives Unrestricted Use	NYSDEC (2) Soil Cleanup Objectives Restricted Residential Use	SB001 0-2' 3/1/2022 L2210848-14	SB001 4-6' 3/1/2022 L2210848-15	SB002 2-4' 3/1/2022 L2210848-30	SB002 6-8' 3/1/2022 L2210848-17	SB002 18-20' 3/1/2022 L2210848-19	SB003 3-5' 3/1/2022 L2210848-22	SB003 9-11' 3/1/2022 L2210848-27	SB003 15-17' 3/1/2022 L2210848-20	SB003 20-22' 3/1/2022 L2210848-28	SB004 2-4' 3/1/2022 L2210848-18	SB004 6-8' 3/1/2022 L2211451-03	SB005 0-2' 3/1/2022 L2210848-13	SB005 0-2' 3/1/2022 L2210848-13R1	SB005 8-10' 3/1/2022 L2210848-16	SB005 12-14' 3/1/2022 L2210848-29	SB005 15-17' 3/1/2022 L2211451-01	SB006 3-4' 3/1/2022 L2210848-04	SB006 4-6' 3/1/2022 L2210848-03	SB007 3-5' 3/1/2022 L2210848-05
Method: 8081B - Organochlorine Pesticides (GC) - (mg/kg)																							
4,4'-DDD	72-54-8	0.0033	13	0.000857 J	0.00197	0.00182 U	0.00185 U	0.00166 U	0.00569 P	0.00183	0.00165 U	0.00173 U	0.00179 U	0.00189 U	0.00177 U	- -	0.00172 U	0.00173 U	0.00167 U	0.00171 U	0.00164 U	0.00177 U
4,4'-DDE	72-55-9	0.0033	8.9	0.00174	0.0191	0.00182 U	0.00185 U	0.00166 U	0.00273	0.00179 U	0.00165 U	0.00173 U	0.00179 U	0.00189 U	0.00177 U	- -	0.00172 U	0.00173 U	0.00167 U	0.00171 U	0.00164 U	0.00177 U
4,4'-DDT	50-29-3	0.0033	7.9	0.00874	0.0363	0.00342 U	0.00347 U	0.00311 U	0.00341 U	0.00336 U	0.0031 U	0.00324 U	0.00335 U	0.00355 U	0.00331 U	- -	0.00323 U	0.00324 U	0.00314 U	0.00321 U	0.00307 U	0.00331 U
Aldrin	309-00-2	0.005	0.097	0.00164 U	0.00168 U	0.00182 U	0.00185 U	0.00166 U	0.00182 U	0.00179 U	0.00165 U	0.00173 U	0.00179 U	0.00189 U	0.00177 U	- -	0.00172 U	0.00173 U	0.00167 U	0.00171 U	0.00164 U	0.00177 U
Alpha-BHC	319-84-6	0.02	0.48	0.000685 U	0.0007 U	0.00076 U	0.000771 U	0.000692 U	0.000758 U	0.000746 U	0.000688 U	0.00072 U	0.000745 U	0.000788 U	0.000736 U	- -	0.000717 U	0.00072 U	0.000697 U	0.000713 U	0.000683 U	0.000736 U
Beta-BHC	319-85-7	0.036	0.36	0.00164 U	0.00168 U	0.00182 U	0.00185 U	0.00166 U	0.00182 U	0.00179 U	0.00165 U	0.00173 U	0.00179 U	0.00189 U	0.00177 U	- -	0.00172 U	0.00173 U	0.00167 U	0.00171 U	0.00164 U	0.00177 U
Chlordane	57-74-9	NS	NS	0.0137 U	0.014 U	0.0152 U	0.0154 U	0.0138 U	0.0152 U	0.0149 U	0.0138 U	0.0144 U	0.0149 U	0.0158 U	5.8 E	6.64	0.0143 U	0.0144 U	0.0139 U	0.0143 U	0.0136 U	0.0147 U
cis-Chlordane	5103-71-9	0.094	4.2	0.000726 J	0.0021 U	0.00228 U	0.00231 U	0.00207 U	0.00228 U	0.00224 U	0.00206 U	0.00216 U	0.00223 U	0.00236 U	0.635 E	0.514 IP	0.0309	0.000835 J	0.00209 U	0.00214 U	0.00205 U	0.00221 U
Delta-BHC	319-86-8	0.04	100	0.00164 U	0.00168 U	0.00182 U	0.00185 U	0.00166 U	0.00182 U	0.00179 U	0.00165 U	0.00173 U	0.00179 U	0.00189 U	0.00177 U	- -	0.00172 U	0.00173 U	0.00167 U	0.00171 U	0.00164 U	0.00177 U
Dieldrin	60-57-1	0.005	0.2	0.00103 U	0.004	0.00114 U	0.00116 U	0.00104 U	0.00114 U	0.00112 U	0.00103 U	0.00108 U	0.00112 U	0.00118 U	0.0011 U	- -	0.00108 U	0.00108 U	0.00104 U	0.00107 U	0.00102 U	0.0011 U
Endosulfan I	959-98-8	2.4	24	0.00164 U	0.00168 U	0.00182 U	0.00185 U	0.00166 U	0.00182 U	0.00179 U	0.00165 U	0.00173 U	0.00179 U	0.00189 U	0.00177 U	- -	0.00172 U	0.00173 U	0.00167 U	0.00171 U	0.00164 U	0.00177 U
Endosulfan II	33213-65-9	2.4	24	0.00164 U	0.00168 U	0.00182 U	0.00185 U	0.00166 U	0.00182 U	0.00179 U	0.00165 U	0.00173 U	0.00179 U	0.00189 U	0.00177 U	- -	0.00172 U	0.00173 U	0.00167 U	0.00171 U	0.00164 U	0.00177 U
Endosulfan sulfate	1031-07-8	2.4	24	0.000685 U	0.0007 U	0.00076 U	0.000771 U	0.000692 U	0.000758 U	0.000746 U	0.000688 U	0.00072 U	0.000745 U	0.000788 U	0.000736 U	- -	0.000717 U	0.00072 U	0.000697 U	0.000713 U	0.000683 U	0.000736 U
Endrin	72-20-8	0	11	0.000685 U	0.0007 U	0.00076 U	0.000771 U	0.000692 U	0.000758 U	0.000746 U	0.000688 U	0.00072 U	0.000745 U	0.000788 U	0.000736 U	- -	0.000717 U	0.00072 U	0.000697 U	0.000713 U	0.000683 U	0.000736 U
Endrin aldehyde	7421-93-4	NS	NS	0.00205 U	0.0021 U	0.00228 U	0.00231 U	0.00207 U	0.00228 U	0.00224 U	0.00206 U	0.00216 U	0.00223 U	0.00236 U	0.00221 U	- -	0.00215 U	0.00216 U	0.00209 U	0.00214 U	0.00205 U	0.00221 U
Endrin ketone	53494-70-5	NS	NS	0.00164 U	0.00168 U	0.00182 U	0.00185 U	0.00166 U	0.00182 U	0.00179 U	0.00165 U	0.00173 U	0.00179 U	0.00189 U	0.00177 U	- -	0.00172 U	0.00173 U	0.00167 U	0.00171 U	0.00164 U	0.00177 U
Heptachlor	76-44-8	0.042	2.1	0.000822 U	0.00084 U	0.000912 U	0.000925 U	0.00083 U	0.00091 U	0.000895 U	0.000826 U	0.000864 U	0.000894 U	0.000946 U	0.108	- -	0.000861 U	0.000864 U	0.000836 U	0.000856 U	0.000819 U	0.000883 U
Heptachlor epoxide	1024-57-3	NS	NS	0.00308 U	0.00315 U	0.00342 U	0.00347 U	0.00311 U	0.00341 U	0.00336 U	0.0031 U	0.00324 U	0.00335 U	0.00355 U	0.00331 U	- -	0.00323 U	0.00324 U	0.00314 U	0.00321 U	0.00307 U	0.00331 U
Lindane	58-89-9	0.1	1.3	0.000685 U	0.0007 U	0.00076 U	0.000771 U	0.000692 U	0.000758 U	0.000746 U	0.000688 U	0.00072 U	0.000745 U	0.000788 U	0.000736 U	- -	0.000717 U	0.00072 U	0.000697 U	0.000713 U	0.000683 U	0.000736 U
Methoxychlor	72-43-5	NS	NS	0.00308 U	0.00315 U	0.00342 U	0.00347 U	0.00311 U	0.00341 U	0.00336 U	0.0031 U	0.00324 U	0.00335 U	0.00355 U	0.00331 U	- -	0.00323 U	0.00324 U	0.00314 U	0.00321 U	0.00307 U	0.00331 U
Toxaphene	8001-35-2	NS	NS	0.0308 U	0.0315 U	0.0342 U	0.0347 U	0.0311 U	0.0341 U	0.0336 U	0.031 U	0.0324 U	0.0335 U	0.0355 U	0.0331 U	- -	0.0323 U	0.0324 U	0.0314 U	0.0321 U	0.0307 U	0.0331 U
trans-Chlordane	5103-74-2	NS	NS	0.00153 JP	0.00131 J	0.00228 U	0.00231 U	0.00207 U	0.00228 U	0.00224 U	0.00206 U	0.00216 U	0.00223 U	0.00236 U	0.564 E	0.798	0.0212 IP	0.00124 J	0.00209 U	0.00214 U	0.00205 U	0.00221 U
Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - (mg/kg)																							
Aroclor 1016	12674-11-2	0.1	1	0.0342 U	0.0356 U	0.0374 U	0.0374 U	0.0353 U	0.0373 U	0.038 U	0.033 U	0.0363 U	0.0374 U	0.0391 U	0.0369 U	- -	0.184 U	0.0371 U	0.0359 U	0.0362 U	0.0349 U	0.037 U
Aroclor 1221	11104-28-2	0.1	1	0.0342 U	0.0356 U	0.0374 U	0.0374 U	0.0353 U	0.0373 U	0.038 U	0.033 U	0.0363 U	0.0374 U	0.0391 U	0.0369 U	- -	0.184 U	0.0371 U	0.0359 U	0.0362 U	0.0349 U	0.037 U
Aroclor 1232	11141-16-5	0.1	1	0.0342 U	0.0356 U	0.0374 U	0.0374 U	0.0353 U	0.0373 U	0.038 U	0.033 U	0.0363 U	0.0374 U	0.0391 U	0.0369 U	- -	0.184 U	0.0371 U	0.0359 U	0.0362 U	0.0349 U	0.037 U
Aroclor 1242	53469-21-9	0.1	1	0.0342 U	0.0356 U	0.0374 U	0.0374 U	0.0353 U	0.0373 U	0.038 U	0.033 U	0.0363 U	0.0374 U	0.0391 U	0.0369 U	- -	0.184 U	0.0371 U	0.0359 U	0.0362 U	0.0349 U	0.037 U
Aroclor 1248	12672-29-6	0.1	1	0.0342 U	0.0356 U	0.0374 U	0.0374 U	0.0353 U	0.0373 U	0.038 U	0.033 U	0.0363 U	0.0374 U	0.0391 U	0.0369 U	- -	0.846	0.0371 U	0.0359 U	0.0362 U	0.0349 U	0.037 U
Aroclor 1254	11097-69-1	0.1	1	0.0188 J	0.0356 U	0.0374 U	0.0374 U	0.0353 U	0.0373 U	0.038 U	0.033 U	0.0363 U	0.215	0.0391 U	0.0369 U	- -	0.943	0.0102 J	0.0359 U	0.0362 U	0.0349 U	0.037 U
Aroclor 1260	11096-82-5	0.1	1	0.00812 J	0.00832 J	0.0374 U	0.0374 U	0.0353 U	0.037 J	0.038 U	0.033 U	0.0363 U	0.0374 U	0.0391 U	0.0369 U	- -	0.184 U	0.0371 U	0.0359 U	0.0362 U	0.0349 U	0.037 U
Aroclor 1262	37324-23-5	0.1	1	0.0342 U	0.0356 U	0.0374 U	0.0374 U	0.0353 U	0.0373 U	0.038 U	0.033 U	0.0363 U	0.0374 U	0.0391 U	0.0369 U	- -	0.184 U	0.0371 U	0.0359 U	0.0362 U	0.0349 U	0.037 U
Aroclor 1268	11100-14-4	0.1	1	0.0342 U	0.00382 J	0.00419 J	0.0374 U	0.0353 U	0.0373 U	0.038 U	0.033 U	0.0363 U	0.0374 U	0.0391 U	0.0369 U	- -	0.184 U	0.0371 U	0.0359 U	0.0362 U	0.0349 U	0.037 U
PCBs, Total	1336-36-3	0.1	1	0.0269 J	0.0121 J	0.00419 J	0.0374 U	0.0353 U	0.037 J	0.038 U	0.033 U	0.0363 U	0.215	0.0391 U	0.0369 U	- -	1.79	0.0102 J	0.0359 U	0.0362 U	0.0349 U	0.037 U
Method: 8151B - Herbicides - (mg/kg)																							
2,4,5-TP (Silvex)	93-72-1	3.8	100a	0.173 U	0.183 U	0.189 U	0.193 U	0.177 U	0.188 U	0.192 U	0.173 U	0.178 U	0.188 U	0.197 U	0.184 U	- -	0.184 U	0.186 U	0.181 U	0.18 U	0.18 U	0.188 U
General Chemistry																							
Cyanide, Total	57-12-5	27	27	0.53 J	1 U	0.81 J	1.1 U	1 U	1.1 U	1.1 U	0.96 U	1 U	1.1 U	1.2 U	1.1 U	- -	1 U	1.1 U	1.1 U	1 U	1 U	1.1 U

Notes:
(1) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use of Soil Cleanup Objective Table 375-6.8a 12/06
(2) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use of Soil Cleanup Objective Table 375-6.8b 12/06
NS - No standard
NA - Not Analyzed
J - Estimated Value
U - The compound was not detected at the indicated concentration.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
Blind duplicates: DUP001 = SB007 (3-5') and DUP002 = SB005 (0-2')
Shaded text denotes concentrations exceeding NYSDEC Unrestricted Use
Shaded text denotes concentrations exceeding NYSDEC Restricted Residential Use

Table 4
Soil PCB, Pesticide, and General Chemistry Analytical Data
731-747 4th Avenue, Brooklyn, NY

Sample ID: / Sample Depth: / Sampling Date: / Lab Sample ID:	CAS Number	NYSDEC (1) Soil Cleanup Objectives Unrestricted Use	NYSDEC (2) Soil Cleanup Objectives Restricted Residential Use	SB007 7-9' 3/1/2022 L2210848-06	SB007 18-20' 3/1/2022 L2210848-07	SB008 0-2' 3/1/2022 L2210848-09	SB008 2-4' 3/1/2022 L2210848-12	SB008 6-8' 3/1/2022 L2210848-10	SB008 12-14' 3/1/2022 L2210848-02	SB009 3-5' 3/1/2022 L2210848-32	SB009 5-7' 3/1/2022 L2211451-02	SB009 9-11' 3/1/2022 L2210848-31	SB010 0-2' 3/1/2022 L2210848-01	SB010 4-6' 3/1/2022 L2210848-25	SB010 8-10' 3/1/2022 L2210848-26	SB011 0-2' 3/1/2022 L2210848-21	SB011 6-8' 3/1/2022 L2210848-24	SB011 18-20' 3/1/2022 L2210848-23	DUP001 3-5' 3/1/2022 L2210848-08	DUP002 0-2' 3/1/2022 L2210848-11	DUP002 0-2' 3/1/2022 L2210848-11R1
Method: 8081B - Organochlorine Pesticides (GC) - (mg/kg)																					
4,4'-DDD	72-54-8	0.0033	13	0.00188 U	0.00172 U	0.00167 U	0.0017 U	0.00181 U	0.00176 U	0.00169 U	0.00176 U	0.00178 U	0.00168 U	0.00169 U	0.00177 U	0.0179 U	0.00177 U	0.00172 U	0.00182 U	0.00173 U	- -
4,4'-DDE	72-55-9	0.0033	8.9	0.00188 U	0.00172 U	0.00167 U	0.0017 U	0.00181 U	0.00176 U	0.00169 U	0.00176 U	0.00178 U	0.00129 J	0.00366	0.00177 U	0.0179 U	0.00177 U	0.00172 U	0.00182 U	0.00173 U	- -
4,4'-DDT	50-29-3	0.0033	7.9	0.00353 U	0.00322 U	0.00313 U	0.00319 U	0.00339 U	0.00331 U	0.00317 U	0.00329 U	0.00334 U	0.00316 U	0.00218 J	0.00331 U	0.0335 U	0.00332 U	0.00322 U	0.00341 U	0.00325 U	- -
Aldrin	309-00-2	0.005	0.097	0.00188 U	0.00172 U	0.00167 U	0.0017 U	0.00181 U	0.00176 U	0.00169 U	0.00176 U	0.00178 U	0.00168 U	0.00169 U	0.00177 U	0.0179 U	0.00177 U	0.00172 U	0.00182 U	0.00173 U	- -
Alpha-BHC	319-84-6	0.02	0.48	0.000785 U	0.000715 U	0.000696 U	0.000709 U	0.000754 U	0.000735 U	0.000705 U	0.000732 U	0.000741 U	0.000702 U	0.000703 U	0.000736 U	0.00745 U	0.000738 U	0.000715 U	0.000758 U	0.000722 U	- -
Beta-BHC	319-85-7	0.036	0.36	0.00188 U	0.00172 U	0.00167 U	0.0017 U	0.00181 U	0.00176 U	0.00169 U	0.00176 U	0.00178 U	0.00168 U	0.00169 U	0.00177 U	0.0179 U	0.00177 U	0.00172 U	0.00182 U	0.00173 U	- -
Chlordane	57-74-9	NS	NS	0.0157 U	0.0143 U	0.0139 U	0.0142 U	0.0151 U	0.0147 U	0.0141 U	0.0146 U	0.0148 U	0.014 U	0.0414 P	0.0147 U	0.149 U	0.0148 U	0.0143 U	0.0152 U	4.85 E	5.82
cis-Chlordane	5103-71-9	0.094	4.2	0.00235 U	0.00215 U	0.00209 U	0.00213 U	0.00226 U	0.0022 U	0.00211 U	0.00219 U	0.00222 U	0.00454	0.00794	0.00221 U	0.0223 U	0.00221 U	0.00214 U	0.00227 U	0.751 E	0.575 IP
Delta-BHC	319-86-8	0.04	100	0.00188 U	0.00172 U	0.00167 U	0.0017 U	0.00181 U	0.00176 U	0.00169 U	0.00176 U	0.00178 U	0.00168 U	0.00169 U	0.00177 U	0.0179 U	0.00177 U	0.00172 U	0.00182 U	0.00173 U	- -
Dieldrin	60-57-1	0.005	0.2	0.00118 U	0.00107 U	0.00104 U	0.00106 U	0.00113 U	0.0011 U	0.00106 U	0.0011 U	0.00111 U	0.00198	0.00164	0.0011 U	0.0112 U	0.00111 U	0.00107 U	0.00114 U	0.00108 U	- -
Endosulfan I	959-98-8	2.4	24	0.00188 U	0.00172 U	0.00167 U	0.0017 U	0.00181 U	0.00176 U	0.00169 U	0.00176 U	0.00178 U	0.00168 U	0.00169 U	0.00177 U	0.0179 U	0.00177 U	0.00172 U	0.00182 U	0.00173 U	- -
Endosulfan II	33213-65-9	2.4	24	0.00188 U	0.00172 U	0.00167 U	0.0017 U	0.00181 U	0.00176 U	0.00169 U	0.00176 U	0.00178 U	0.00168 U	0.00169 U	0.00177 U	0.0179 U	0.00177 U	0.00172 U	0.00182 U	0.00173 U	- -
Endosulfan sulfate	1031-07-8	2.4	24	0.000785 U	0.000715 U	0.000696 U	0.000709 U	0.000754 U	0.000735 U	0.000705 U	0.000732 U	0.000741 U	0.000702 U	0.000703 U	0.000736 U	0.00745 U	0.000738 U	0.000715 U	0.000758 U	0.000722 U	- -
Endrin	72-20-8	0	11	0.000785 U	0.000715 U	0.000696 U	0.000709 U	0.000754 U	0.000735 U	0.000705 U	0.000732 U	0.000741 U	0.000702 U	0.000703 U	0.000736 U	0.00745 U	0.000738 U	0.000715 U	0.000758 U	0.000722 U	- -
Endrin aldehyde	7421-93-4	NS	NS	0.00235 U	0.00215 U	0.00209 U	0.00213 U	0.00226 U	0.0022 U	0.00211 U	0.00219 U	0.00222 U	0.0021 U	0.00211 U	0.00221 U	0.0223 U	0.00221 U	0.00214 U	0.00227 U	0.00217 U	- -
Endrin ketone	53494-70-5	NS	NS	0.00188 U	0.00172 U	0.00167 U	0.0017 U	0.00181 U	0.00176 U	0.00169 U	0.00176 U	0.00178 U	0.00168 U	0.00169 U	0.00177 U	0.0179 U	0.00177 U	0.00172 U	0.00182 U	0.00173 U	- -
Heptachlor	76-44-8	0.042	2.1	0.000942 U	0.000858 U	0.000835 U	0.000851 U	0.000905 U	0.000882 U	0.000846 U	0.000878 U	0.00089 U	0.000842 U	0.000843 U	0.000884 U	0.00894 U	0.000886 U	0.000858 U	0.000909 U	0.0466	- -
Heptachlor epoxide	1024-57-3	NS	NS	0.00353 U	0.00322 U	0.00313 U	0.00319 U	0.00339 U	0.00331 U	0.00317 U	0.00329 U	0.00334 U	0.00316 U	0.00316 U	0.00331 U	0.0335 U	0.00332 U	0.00322 U	0.00341 U	0.00325 U	- -
Lindane	58-89-9	0.1	1.3	0.000785 U	0.000715 U	0.000696 U	0.000709 U	0.000754 U	0.000735 U	0.000705 U	0.000732 U	0.000741 U	0.000702 U	0.000703 U	0.000736 U	0.00745 U	0.000738 U	0.000715 U	0.000758 U	0.000722 U	- -
Methoxychlor	72-43-5	NS	NS	0.00353 U	0.00322 U	0.00313 U	0.00319 U	0.00339 U	0.00331 U	0.00317 U	0.00329 U	0.00334 U	0.00316 U	0.00316 U	0.00331 U	0.0335 U	0.00332 U	0.00322 U	0.00341 U	0.00325 U	- -
Toxaphene	8001-35-2	NS	NS	0.0353 U	0.0322 U	0.0313 U	0.0319 U	0.0339 U	0.0331 U	0.0317 U	0.0329 U	0.0334 U	0.0316 U	0.0316 U	0.0331 U	0.335 U	0.0332 U	0.0322 U	0.0341 U	0.0325 U	- -
trans-Chlordane	5103-74-2	NS	NS	0.00235 U	0.00215 U	0.00209 U	0.00213 U	0.00226 U	0.0022 U	0.00211 U	0.00219 U	0.00222 U	0.00414	0.00734	0.00221 U	0.0223 U	0.00221 U	0.00214 U	0.00227 U	0.654 E	0.99
Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - (mg/kg)																					
Aroclor 1016	12674-11-2	0.1	1	0.0378 U	0.037 U	0.0358 U	0.0358 U	0.037 U	0.0358 U	0.0354 U	0.0376 U	0.0381 U	0.0346 U	0.0356 U	0.0364 U	0.0371 U	0.039 U	0.036 U	0.0385 U	0.0362 U	- -
Aroclor 1221	11104-28-2	0.1	1	0.0378 U	0.037 U	0.0358 U	0.0358 U	0.037 U	0.0358 U	0.0354 U	0.0376 U	0.0381 U	0.0346 U	0.0356 U	0.0364 U	0.0371 U	0.039 U	0.036 U	0.0385 U	0.0362 U	- -
Aroclor 1232	11141-16-5	0.1	1	0.0378 U	0.037 U	0.0358 U	0.0358 U	0.037 U	0.0358 U	0.0354 U	0.0376 U	0.0381 U	0.0346 U	0.0356 U	0.0364 U	0.0371 U	0.039 U	0.036 U	0.0385 U	0.0362 U	- -
Aroclor 1242	53469-21-9	0.1	1	0.0378 U	0.037 U	0.0358 U	0.0358 U	0.037 U	0.0358 U	0.0354 U	0.0376 U	0.0381 U	0.0346 U	0.0356 U	0.0364 U	0.0371 U	0.039 U	0.036 U	0.0385 U	0.0362 U	- -
Aroclor 1248	12672-29-6	0.1	1	0.0378 U	0.037 U	0.0358 U	0.0358 U	0.037 U	0.0358 U	0.0354 U	0.0376 U	0.0381 U	0.0346 U	0.0356 U	0.0364 U	0.0371 U	0.039 U	0.036 U	0.0385 U	0.0362 U	- -
Aroclor 1254	11097-69-1	0.1	1	0.0378 U	0.037 U	0.0425	0.0358 U	0.037 U	0.0358 U	0.0354 U	0.0376 U	0.0381 U	0.0346 U	0.0356 U	0.0364 U	0.0371 U	0.039 U	0.036 U	0.0385 U	0.0362 U	- -
Aroclor 1260	11096-82-5	0.1	1	0.0378 U	0.037 U	0.0358 U	0.0358 U	0.037 U	0.0358 U	0.0354 U	0.0376 U	0.0381 U	0.0346 U	0.0356 U	0.0364 U	0.0371 U	0.039 U	0.036 U	0.0385 U	0.0362 U	- -
Aroclor 1262	37324-23-5	0.1	1	0.0378 U	0.037 U	0.0358 U	0.0358 U	0.037 U	0.0358 U	0.0354 U	0.0376 U	0.0381 U	0.0346 U	0.0356 U	0.0364 U	0.0371 U	0.039 U	0.036 U	0.0385 U	0.0362 U	- -
Aroclor 1268	11100-14-4	0.1	1	0.0378 U	0.037 U	0.0358 U	0.0358 U	0.037 U	0.0358 U	0.0354 U	0.0376 U	0.0381 U	0.0346 U	0.0356 U	0.0364 U	0.0371 U	0.039 U	0.036 U	0.0385 U	0.0362 U	- -
PCBs, Total	1336-36-3	0.1	1	0.0378 U	0.037 U	0.0425	0.0358 U	0.037 U	0.0358 U	0.0354 U	0.0376 U	0.0381 U	0.0346 U	0.0356 U	0.0364 U	0.0371 U	0.039 U	0.036 U	0.0385 U	0.0362 U	- -
Method: 8151B - Herbicides - (mg/kg)																					
2,4,5-TP (Silvex)	93-72-1	3.8	100a	0.196 U	0.182 U	0.18 U	0.186 U	0.191 U	0.185 U	0.177 U	0.189 U	0.195 U	0.179 U	0.183 U	0.19 U	0.186 U	0.195 U	0.18 U	0.192 U	1.83 U	- -
General Chemistry																					
Cyanide, Total	57-12-5	27	27	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.1 U	1 U	1.1 U	1.2 U	1 U	1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	- -

Notes:
(1) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use c
(2) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use of S
NS - No standard
NA - Not Analyzed
J - Estimated Value
U - The compound was not detected at the indicated concentration.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear ra
Blind duplicates: DUP001 = SB007 (3-5') and DUP002 = SB005 (0-2')
Shaded text denotes concentrations exceeding NYSDEC Unrestricted Use
Shaded text denotes concentrations exceeding NYSDEC Restricted Residential Use

Table 5
Soil PFAS Analytical Data
731-747 4th Avenue, Brooklyn, NY

Sample ID: Sample Depth: Sampling Date: Lab Sample ID:	CAS Number	NYSDEC Soil Guidance Values Unrestricted Use (1)	NYSDEC Soil Guidance Values Restricted Residential Use (1)	SB001 0-2' 3/1/2022 L2210848-14	SB001 4-6' 3/1/2022 L2210848-15	SB002 2-4' 3/1/2022 L2210848-30	SB002 6-8' 3/1/2022 L2210848-17	SB002 6-8' 3/1/2022 L2210848-17 R2	SB002 18-20' 3/1/2022 L2210848-19	SB003 3-5' 3/1/2022 L2210848-22	SB003 9-11' 3/1/2022 L2210848-27	SB003 15-17' 3/1/2022 L2210848-20	SB003 20-22' 3/1/2022 L2210848-28	SB004 2-4' 3/1/2022 L2210848-18	SB004 6-8' 3/1/2022 L2211451-03	SB005 0-2' 3/1/2022 L2210848-35	SB005 8-10' 3/1/2022 L2210848-16	SB005 12-14' 3/1/2022 L2210848-29	SB005 15-17' 3/1/2022 L2210848-33	SB006 3-4' 3/1/2022 L2210848-04
Perfluorinated Alkyl Acids by Isotope Dilution in mg/Kg																				
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	NS	NS	0.000484 U	0.00051 U	0.000532 U	0.000543 U	- -	0.000485 U	0.000542 U	0.000548 U	0.000479 U	0.000508 U	0.000551 U	0.000566 U	0.00052 U	0.00052 U	0.000539 U	0.000525 U	0.000515 U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	NS	NS	0.000484 U	0.00051 U	0.000532 U	0.000543 U	- -	0.000485 U	0.000542 U	0.000548 U	0.000479 U	0.000508 U	0.000551 U	0.000566 U	0.00052 U	0.00052 U	0.000539 U	0.000525 U	0.000515 U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	0.000484 U	0.00051 U	0.000532 U	0.000543 U	- -	0.000485 U	0.000542 U	0.000548 U	0.000479 U	0.000508 U	0.000551 U	0.000566 U	0.00052 U	0.00052 U	0.000539 U	0.000525 U	0.000515 U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	NS	0.000484 U	0.00051 U	0.000532 U	0.000543 U	0.00203 U	0.000485 U	0.000542 U	0.000548 U	0.000479 U	0.000508 U	0.000551 U	0.000566 U	0.00052 U	0.00052 U	0.000539 U	0.000525 U	0.000515 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	0.000242 U	0.000255 U	0.000266 U	0.000272 U	- -	0.000242 U	0.000271 U	0.000274 U	0.00024 U	0.000254 U	0.000276 U	0.000283 U	0.00026 U	0.00026 U	0.00027 U	0.000262 U	0.000257 U
Perfluorobutanoic Acid (PFBA)	375-22-4	NS	NS	0.000484 U	0.000025 J	0.000532 U	0.000543 U	- -	0.000485 U	0.000542 U	0.000548 U	0.000479 U	0.000508 U	0.000048 J	0.000566 U	0.00052 U	0.00052 U	0.000539 U	0.000525 U	0.000515 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	0.000484 U	0.00051 U	0.000532 U	0.000543 U	- -	0.000485 U	0.000542 U	0.000548 U	0.000479 U	0.000508 U	0.000551 U	0.000566 U	0.00052 U	0.00052 U	0.000539 U	0.000525 U	0.000515 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	0.000242 U	0.000255 U	0.000266 U	0.000272 U	- -	0.000242 U	0.000271 U	0.000274 U	0.00024 U	0.000254 U	0.000276 U	0.000283 U	0.00026 U	0.00026 U	0.00027 U	0.000262 U	0.000257 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	0.000484 U	0.00051 U	0.000532 U	0.000543 U	- -	0.000485 U	0.000542 U	0.000548 U	0.000479 U	0.000508 U	0.000551 U	0.000566 U	0.00052 U	0.00052 U	0.000539 U	0.000525 U	0.000515 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	0.000484 U	0.00051 U	0.000532 U	0.000543 U	- -	0.000485 U	0.000542 U	0.000548 U	0.000479 U	0.000508 U	0.000551 U	0.000566 U	0.00052 U	0.00052 U	0.000539 U	0.000525 U	0.000515 U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	NS	NS	0.000242 U	0.000255 U	0.000266 U	0.000272 U	- -	0.000242 U	0.000271 U	0.000274 U	0.00024 U	0.000254 U	0.000053 J	0.000283 U	0.00026 U	0.00026 U	0.00027 U	0.000262 U	0.000257 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	0.000242 U	0.000255 U	0.000266 U	0.000272 U	- -	0.000242 U	0.000271 U	0.000274 U	0.00024 U	0.000254 U	0.000276 U	0.000283 U	0.00026 U	0.00026 U	0.00027 U	0.000262 U	0.000257 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	0.000484 U	0.00051 U	0.000532 U	0.000543 U	- -	0.000485 U	0.000542 U	0.000548 U	0.000479 U	0.000508 U	0.000551 U	0.000566 U	0.00052 U	0.00052 U	0.000539 U	0.000525 U	0.000515 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	0.000242 U	0.000255 U	0.000266 U	0.000272 U	- -	0.000242 U	0.000271 U	0.000274 U	0.00024 U	0.000254 U	0.000276 U	0.000283 U	0.00026 U	0.00026 U	0.00027 U	0.000262 U	0.000257 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	0.000484 U	0.00051 U	0.000532 U	0.000543 U	- -	0.000485 U	0.000542 U	0.000548 U	0.000479 U	0.000508 U	0.000551 U	0.000566 U	0.00052 U	0.00052 U	0.000539 U	0.000525 U	0.000515 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.00088	0.044	0.000555	0.000356	0.000266 U	0.000149 J	- -	0.000242 U	0.000587	0.000743	0.00024 U	0.000254 U	0.000276 U	0.000283 U	0.0002 J	0.000761	0.00027 U	0.000262 U	0.000257 U
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.033	0.000424	0.000358	0.000266 U	0.000272 U	- -	0.000242 U	0.000384	0.000476	0.000078 J	0.000254 U	0.000157 J	0.000283 U	0.00012 JF	0.000335	0.000431	0.00032	0.00008 JF
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	0.000484 U	0.00051 U	0.000532 U	0.000543 U	- -	0.000485 U	0.000542 U	0.000548 U	0.000479 U	0.000508 U	0.000089 J	0.000566 U	0.00052 U	0.00052 U	0.000539 U	0.000525 U	0.000515 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	0.000484 U	0.00051 U	0.000532 U	0.000543 U	- -	0.000485 U	0.000542 U	0.000548 U	0.000479 U	0.000508 U	0.000551 U	0.000566 U	0.00052 U	0.00052 U	0.000539 U	0.000525 U	0.000515 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	0.000484 U	0.00051 U	0.000532 U	0.000543 U	- -	0.000485 U	0.000542 U	0.000548 U	0.000479 U	0.000508 U	0.000551 U	0.000566 U	0.00052 U	0.00052 U	0.000539 U	0.000525 U	0.000515 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	0.000484 U	0.00051 U	0.000532 U	0.000543 U	- -	0.000485 U	0.000542 U	0.000548 U	0.000479 U	0.000508 U	0.000551 U	0.000566 U	0.00052 U	0.00052 U	0.000539 U	0.000525 U	0.000515 U
PFOA/PFOS, Total	N/A	NS	NS	0.000979	0.000714	0.000266 U	0.000149 J	- -	0.000242 U	0.000971	0.00122	0.000078 J	0.000254 U	0.000157 J	0.000283 U	0.00032 J	0.0011	0.000431	0.00032	0.00008 J

Notes:
(1) NYSDEC Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs, June 2021
NS - No standard
NA - Not Analyzed
J - Estimated Value
U - The compound was not detected at the indicated concentration
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument
Blind duplicates: DUP001 = SB007 (3-5') and DUP002 = SB005 (0-2')
Shaded text denotes concentrations exceeding NYSDEC Unrestricted Use
Shaded text denotes concentrations exceeding NYSDEC Restricted Residential Use

Table 5
Soil PFAS Analytical Data
731-747 4th Avenue, Brooklyn, NY

Sample ID: Sample Depth: Sampling Date: Lab Sample ID:	CAS Number	NYSDEC Soil Guidance Values Unrestricted Use (1)	NYSDEC Soil Guidance Values Restricted Residential Use (1)	SB006 4-6' 3/1/2022 L2210848-03	SB007 3-5' 3/1/2022 L2210848-05	SB007 7-9' 3/1/2022 L2210848-06	SB007 18-20' 3/1/2022 L2210848-07	SB008 0-2' 3/1/2022 L2210848-09	SB008 2-4' 3/1/2022 L2210848-12	SB008 6-8' 3/1/2022 L2210848-10	SB008 12-14' 3/1/2022 L2210848-02	SB009 3-5' 3/1/2022 L2210848-32	SB009 5-7' 3/1/2022 L2210848-34	SB009 9-11' 3/1/2022 L2210848-31	SB010 0-2' 3/1/2022 L2210848-01	SB010 4-6' 3/1/2022 L2210848-25	SB010 8-10' 3/1/2022 L2210848-26	SB011 0-2' 3/1/2022 L2210848-21	SB011 6-8' 3/1/2022 L2210848-24	SB011 18-20' 3/1/2022 L2210848-23	DUP001 3-5' 3/1/2022 L2210848-08	DUP002 0-2' 3/1/2022 L2210848-11
Perfluorinated Alkyl Acids by Isotope Dilution in mg/Kg																							
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	NS	NS	0.00052 U	0.000504 U	0.000534 U	0.000502 U	0.000513 U	0.000522 U	0.000535 U	0.000515 U	0.00049 U	0.00055 U	0.000548 U	0.000482 U	0.000541 U	0.000546 U	0.000542 U	0.000555 U	0.00054 U	0.000557 U	0.000522 U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	NS	NS	0.00052 U	0.000504 U	0.000534 U	0.000502 U	0.000513 U	0.000522 U	0.000535 U	0.000515 U	0.00049 U	0.00055 U	0.000548 U	0.000482 U	0.000541 U	0.000546 U	0.000542 U	0.000555 U	0.00054 U	0.000557 U	0.000522 U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	0.00052 U	0.000504 U	0.000534 U	0.000502 U	0.000513 U	0.000522 U	0.000535 U	0.000515 U	0.00049 U	0.00055 U	0.000548 U	0.000482 U	0.000541 U	0.000546 U	0.000542 U	0.000555 U	0.00054 U	0.000557 U	0.000522 U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	NS	0.00052 U	0.000504 U	0.000534 U	0.000502 U	0.000513 U	0.000522 U	0.000535 U	0.000515 U	0.00049 U	0.00055 U	0.000548 U	0.000482 U	0.000541 U	0.000546 U	0.000542 U	0.000555 U	0.00054 U	0.000557 U	0.000522 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	0.00026 U	0.000252 U	0.000267 U	0.000251 U	0.000256 U	0.000261 U	0.000267 U	0.000257 U	0.000245 U	0.000275 U	0.000274 U	0.000241 U	0.00027 U	0.000273 U	0.000271 U	0.000277 U	0.00027 U	0.000278 U	0.000261 U
Perfluorobutanoic Acid (PFBA)	375-22-4	NS	NS	0.00052 U	0.000504 U	0.000534 U	0.000502 U	0.000513 U	0.000522 U	0.000535 U	0.000515 U	0.00049 U	0.00055 U	0.000548 U	0.000482 U	0.000541 U	0.000546 U	0.000542 U	0.000555 U	0.00054 U	0.000557 U	0.000522 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	0.00052 U	0.000504 U	0.000534 U	0.000502 U	0.000513 U	0.000522 U	0.000535 U	0.000515 U	0.00049 U	0.00055 U	0.000548 U	0.000482 U	0.000541 U	0.000546 U	0.000542 U	0.000555 U	0.00054 U	0.000557 U	0.000522 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	0.00026 U	0.000252 U	0.000267 U	0.000251 U	0.000256 U	0.000261 U	0.000267 U	0.000257 U	0.000245 U	0.000275 U	0.000274 U	0.000241 U	0.00027 U	0.000273 U	0.000271 U	0.000277 U	0.00027 U	0.000278 U	0.000261 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	0.00052 U	0.000504 U	0.000534 U	0.000502 U	0.000513 U	0.000522 U	0.000535 U	0.000515 U	0.00049 U	0.00055 U	0.000548 U	0.000482 U	0.000541 U	0.000546 U	0.000542 U	0.000555 U	0.00054 U	0.000557 U	0.000522 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	0.00052 U	0.000504 U	0.000534 U	0.000502 U	0.000513 U	0.000522 U	0.000535 U	0.000515 U	0.00049 U	0.00055 U	0.000548 U	0.000482 U	0.000541 U	0.000546 U	0.000542 U	0.000555 U	0.00054 U	0.000557 U	0.000522 U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	NS	NS	0.00026 U	0.000252 U	0.000267 U	0.000251 U	0.000256 U	0.000261 U	0.000267 U	0.000257 U	0.000245 U	0.000275 U	0.000274 U	0.000241 U	0.00027 U	0.000273 U	0.000271 U	0.000277 U	0.00027 U	0.000278 U	0.000261 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	0.00026 U	0.000252 U	0.000267 U	0.000251 U	0.000256 U	0.000261 U	0.000267 U	0.000257 U	0.000245 U	0.000275 U	0.000274 U	0.000241 U	0.00027 U	0.000273 U	0.000271 U	0.000277 U	0.00027 U	0.000278 U	0.000261 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	0.00052 U	0.000504 U	0.000534 U	0.000502 U	0.000513 U	0.000522 U	0.000535 U	0.000515 U	0.00049 U	0.00055 U	0.000548 U	0.000482 U	0.000541 U	0.000546 U	0.000542 U	0.000555 U	0.00054 U	0.000557 U	0.000522 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	0.00026 U	0.000252 U	0.000267 U	0.000251 U	0.000256 U	0.000261 U	0.000267 U	0.000257 U	0.000245 U	0.000275 U	0.000274 U	0.000241 U	0.00027 U	0.000273 U	0.000271 U	0.000277 U	0.00027 U	0.000278 U	0.000261 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	0.00052 U	0.000504 U	0.000534 U	0.000502 U	0.000513 U	0.000522 U	0.000535 U	0.000515 U	0.00049 U	0.00055 U	0.000548 U	0.000482 U	0.000541 U	0.000546 U	0.000542 U	0.000555 U	0.00054 U	0.000557 U	0.000522 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.00088	0.044	0.00026 U	0.000252 U	0.000267 U	0.000251 U	0.00016 J	0.000261 U	0.000267 U	0.000257 U	0.000298	0.000275 U	0.000244 J	0.000158 J	0.00027 U	0.000273 U	0.000311	0.000277 U	0.00027 U	0.000278 U	0.000173 J
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.033	0.000069 JF	0.000066 JF	0.000463	0.000251 U	0.000069 JF	0.000236 J	0.000113 J	0.000257 U	0.000245 U	0.000275 U	0.000077 JF	0.00007 J	0.00029	0.00054	0.000271 U	0.000277 U	0.00027 U	0.000236 J	0.000133 JF
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	0.00052 U	0.000504 U	0.000534 U	0.000502 U	0.000513 U	0.000522 U	0.000535 U	0.000515 U	0.00049 U	0.00055 U	0.000548 U	0.000482 U	0.000541 U	0.000546 U	0.000542 U	0.000555 U	0.00054 U	0.000557 U	0.000522 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	0.00052 U	0.000504 U	0.000534 U	0.000502 U	0.000513 U	0.000522 U	0.000535 U	0.000515 U	0.00049 U	0.00055 U	0.000548 U	0.000482 U	0.000541 U	0.000546 U	0.000542 U	0.000555 U	0.00054 U	0.000557 U	0.000522 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	0.00052 U	0.000504 U	0.000534 U	0.000502 U	0.000513 U	0.000522 U	0.000535 U	0.000515 U	0.00049 U	0.00055 U	0.000548 U	0.000482 U	0.000541 U	0.000546 U	0.000542 U	0.000555 U	0.00054 U	0.000557 U	0.000522 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	0.00052 U	0.000504 U	0.000534 U	0.000502 U	0.000513 U	0.000522 U	0.000535 U	0.000515 U	0.00049 U	0.00055 U	0.000548 U	0.000482 U	0.000541 U	0.000546 U	0.000542 U	0.000555 U	0.00054 U	0.000557 U	0.000522 U
PFOA/PFOS, Total	N/A	NS	NS	0.000069 J	0.000066 J	0.000463	0.000251 U	0.000229 J	0.000236 J	0.000113 J	0.000257 U	0.000298	0.000275 U	0.000321 J	0.000228 J	0.00029	0.00054	0.000311	0.000277 U	0.00027 U	0.000236 J	0.000306 J

Notes:
(1) NYSDEC Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs, June 2021
NS - No standard
NA - Not Analyzed
J - Estimated Value
U - The compound was not detected at the indicated concentration
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument
Blind duplicates: DUP001 = SB007 (3-5') and DUP002 = SB005 (0-2')
Shaded text denotes concentrations exceeding NYSDEC Unrestricted Use
Shaded text denotes concentrations exceeding NYSDEC Restricted Residential Use

Table 6
Water Level Measurements
731-747 4th Avenue, Brooklyn, NY

Well ID	Depth to Bottom	Depth to LNAPL	Depth to Water	LNAPL Thickness	Observations
3/3/2022 - 3/10/2022					
MW-1	30.72	22.82	22.90	0.08	LNAPL Red in color with Fuel Oil Odor
MW002	27.85	NP	25.95	0.00	
MW-3	35.44	NP	22.74	0.00	
MW-6	33.75	NP	20.56	0.00	
MW-6A	28.03	NP	20.50	0.00	
MW-7	26.61	NP	18.64	0.00	
MW-8	30.73	NP	20.05	0.00	
MW-8A	29.35	20.30	20.80	0.50	LNAPL Red in color with Fuel Oil Odor
MW-9	24.33	21.51	21.53	0.02	LNAPL Red in color with Fuel Oil Odor
MW-31	28.85	NP	22.46	0.00	
MW-32A	25.34	NP	21.80	0.00	
MW-32B	27.95	20.60	20.80	0.20	LNAPL Red in color with Fuel Oil Odor
MW-47	23.12	NP	NW	0.00	
MW-80	32.43	23.48	23.50	0.02	LNAPL Red in color with Fuel Oil Odor
MW-81	36.81	NP	23.35	0.00	
MW-82	23.40	NP	21.55	0.00	
MW-83	25.13	NP	20.35	0.00	
MW-84	31.78	NP	19.69	0.00	
MW-85	NM	NM	NM	NM	Well damaged
MW-86	32.07	NP	19.17	0.00	
MW-87	32.83	NP	20.69	0.00	
MW-88	NM	NM	NM	NM	Well damaged
MW-89	NM	NM	NM	NM	Well damaged
MW-90	32.91	NP	21.14	0.00	
MW-91	23.03	NP	Dry	0.00	
MW-94	20.44	NP	Dry	0.00	

Notes:
All measurements in feet
LNAPL - Light non-aqueous phase liquid
NP - No LNAPL
NS - Not Surveyed
NM - Not Measured

Table 7
Groundwater VOCs Analytical Data
731-747 4th Avenue, Brooklyn, NY

Client Sample ID: / Sampling Date: / Laboratory ID:	CAS Number	NYSDEC Groundwater Quality Standards	MW002 3/11/2022 L2212979-03	MW-3 3/10/2022 L2212899-06	MW-6 3/10/2022 L2212899-02	MW-7 3/11/2022 L2212979-01	MW-8 3/10/2022 L2212899-07	MW-31 3/11/2022 L2212899-01	MW-81 3/10/2022 L2212899-04	MW-82 3/10/2022 L2212899-05	MW-84 3/10/2022 L2212899-03	MW-86 3/11/2022 L2212979-02	DUP003 3/10/2022 L2212899-08
Volatile Organic Compounds by USEPA Method 8260 in µg/L													
1,1,1,2-Tetrachloroethane	630-20-6	5	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	71-55-6	5	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	79-34-5	5	0.5 U	0.5 U	1 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	79-00-5	1	1.5 U	1.5 U	3 U	1.5 U	3 U	3 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	75-34-3	5	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	75-35-4	5	0.5 U	0.5 U	1 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	563-58-6	5	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	87-61-6	5	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	96-18-4	0.04	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	95-93-2	5	2 U	2 U	7.9	0.98 J	22	22	2 U	3.6	2.9	21	2 U
1,2,4-Trichlorobenzene	120-82-1	5	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	95-63-6	5	2.5 U	2.5 U	5 U	2.5 U	2.4 J	37	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	106-93-4	0.0006	2 U	2 U	4 U	2 U	4 U	4 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	95-50-1	3	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	107-06-2	0.6	0.5 U	0.5 U	1 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethene, Total	540-59-0	NS	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloropropane	78-87-5	1	1 U	1 U	2 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	108-67-8	5	2.5 U	2.5 U	5 U	2.5 U	5 U	9.4	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	541-73-1	3	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	142-28-9	5	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene, Total	542-75-6	NS	0.5 U	0.5 U	1 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	106-46-7	3	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dioxane	123-91-1	NS	250 U	250 U	500 U	250 U	500 U	500 U	250 U	250 U	250 U	250 U	250 U
2,2-Dichloropropane	594-20-7	5	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Butanone	78-93-3	50	7.2	5 U	10 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	591-78-6	50	5 U	5 U	10 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	108-10-1	NS	5 U	5 U	10 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U
Acetone	67-64-1	50	66	1.6 J	4.3 J	2.5 J	8.2 J	15	5 U	32	7	5.1	5 U
Acrylonitrile	107-13-1	5	5 U	5 U	10 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U
Benzene	71-43-2	1	0.28 J	0.5 U	1 U	0.5 U	0.65 J	34	0.5 U	0.5 U	25	2	0.5 U
Bromobenzene	108-86-1	5	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	74-97-5	5	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	75-27-4	50	0.5 U	0.5 U	1 U	0.5 U	1 U	1 U	0.5 U	0.5 U	1	0.5 U	0.5 U
Bromoform	75-25-2	50	2 U	2 U	4 U	2 U	4 U	4 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	74-83-9	5	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Carbon disulfide	75-15-0	60	3 J	5 U	10 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	56-23-5	5	0.5 U	0.5 U	1 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	108-90-7	5	2.5 U	0.98 J	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	75-00-3	5	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	67-66-3	7	0.93 J	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	4	12	2.5 U	2.5 U
Chloromethane	74-87-3	NS	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	156-59-2	5	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	10061-01-5	0.4	0.5 U	0.5 U	1 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	124-48-1	50	0.5 U	0.5 U	1 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	74-95-3	5	5 U	5 U	10 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	75-71-8	5	5 U	5 U	10 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U
Ethyl ether	60-29-7	NS	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	100-41-4	5	2.5 U	2.5 U	5 U	2.5 U	6.7	27	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	87-68-3	0.5	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene	98-82-8	5	2.5 U	2.5 U	2.3 J	2.5 U	7.7	7.6	2.5 U	2.5 U	0.76 J	8.1	2.5 U
Methyl tert butyl ether	1634-04-4	10	2.5 U	1.3 J	5 U	2.5 U	5 U	9.9	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methylene chloride	75-09-2	5	2.5 U	2.5 U	5 U	1.8 J	5 U	5 U	2.5 U	0.7 J	2.5 U	2.5 U	2.5 U
n-Butylbenzene	104-51-8	5	2.5 U	2.5 U	5 U	2.5 U	2.9 J	3.6 J	2.5 U	2.5 U	2.5 U	2.2 J	2.5 U
n-Propylbenzene	103-65-1	5	2.5 U	2.5 U	2.1 J	2.5 U	9.8	9.8	2.5 U	2.5 U	0.85 J	12	2.5 U
Naphthalene	91-20-3	10	2.5 U	2.5 U	2.2 J	2.5 U	10	78	2.5 U	2.5 U	0.76 J	1.4 J	2.5 U
o-Chlorotoluene	95-49-8	5	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	95-47-6	5	2.5 U	2.5 U	1.4 J	2.5 U	5 U	3.6 J	2.5 U	2.5 U	2.5 U	0.74 J	2.5 U
p-Chlorotoluene	106-43-4	5	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p-Diethylbenzene	105-05-5	NS	2 U	2 U	4 U	2 U	2.8 J	13	2 U	2 U	2 U	2.5	2 U
p-Ethyltoluene	622-96-8	NS	2 U	2 U	4 U	2 U	4 U	10	2 U	2 U	2 U	2 U	2 U
p-Isopropyltoluene	99-87-6	5	2.5 U	2.5 U	5 U	2.5 U	5 U	2.8 J	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p/m-Xylene	179601-23-1	5	0.71 J	2.5 U	5 U	2.5 U	5 U	14	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
sec-Butylbenzene	135-98-8	5	2.5 U	2.5 U	5 U	2.5 U	3.6 J	3.8 J	2.5 U	2.5 U	2.5 U	2.8	2.5 U
Styrene	100-42-5	5	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
tert-Butylbenzene	98-06-6	5	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	0.86 J	2.5 U
Tetrachloroethene	127-18-4	5	0.5 U	0.5 U	1 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	108-88-3	5	1.1 J	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	1.8 J	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	156-60-5	5	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	10061-02-6	0.4	0.5 U	0.5 U	1 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,4-Dichloro-2-butene	110-57-6	5	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethene	79-01-6	5	0.5 U	0.5 U	1 U	0.5 U	1 U	1 U	0.19 J	0.5 U	0.32 J	0.5 U	0.19 J
Trichlorofluoromethane	75-69-4	5	2.5 U	2.5 U	5 U	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl acetate	108-05-4	NS	5 U	5 U	10 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	75-01-4	2	1 U	1 U	2 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	1330-20-7	NS	0.71 J	2.5 U	1.4 J	2.5 U	5 U	18 J	2.5 U	2.5 U	2.5 U	0.74 J	2.5 U

Notes:
(1) NYSDEC Ambient Water Quality Standards and Guidance Values 6/1998
NS - No Standard
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL.
U - The analyte was analyzed for, but was not detected above the reported sample quantification limit. The assocaited numerical value is the sample quantitation limit.
Blind duplicates: DUP003 = MW081
Highlighted values indicate exceedance of the NYSDEC AWQS

Table 8
Groundwater SVOCs Analytical Data
731-747 4th Avenue, Brooklyn, NY

Client Sample ID: Sampling Date: Laboratory ID:	CAS Number	NYSDEC Groundwater Quality Standards	MW002 3/11/2022 L2212979-03	MW-3 3/10/2022 L2212899-06	MW-6 3/10/2022 L2212899-02	MW-7 3/11/2022 L2212979-01	MW-8 3/10/2022 L2212899-07	MW-31 3/11/2022 L2212899-01	MW-81 3/10/2022 L2212899-04	MW-82 3/10/2022 L2212899-05	MW-84 3/10/2022 L2212899-03	MW-86 3/11/2022 L2212979-02	DUP003 3/10/2022 L2212899-08
Semi-Volatile Organic Compounds by USEPA Method 8270 in µg/L													
1,2,4,5-Tetrachlorobenzene	95-94-3	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	120-82-1	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	95-50-1	3	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,3-Dichlorobenzene	541-73-1	3	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,4-Dichlorobenzene	106-46-7	3	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2,4,5-Trichlorophenol	95-95-4	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	88-06-2	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol	120-83-2	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dimethylphenol	105-67-9	50	5 U	5 U	5 U	5 U	5 U	7.6	5 U	5 U	5 U	5 U	5 U
2,4-Dinitrophenol	51-28-5	10	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	121-14-2	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,6-Dinitrotoluene	606-20-2	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chlorophenol	95-57-8	NS	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylphenol	95-48-7	NS	5 U	5 U	5 U	5 U	5 U	0.61 J	5 U	5 U	5 U	5 U	5 U
2-Nitroaniline	88-74-4	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Nitrophenol	88-75-5	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	91-94-1	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	NS	0.84 J	5 U	5 U	5 U	5 U	1.1 J	5 U	5 U	5 U	5 U	5 U
3-Nitroaniline	99-09-2	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4,6-Dinitro-o-cresol	534-52-1	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl phenyl ether	101-55-3	NS	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Chloroaniline	106-47-8	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Chlorophenyl phenyl ether	7005-72-3	NS	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Nitroaniline	100-01-6	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Nitrophenol	100-02-7	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetophenone	98-86-2	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzoic Acid	65-85-0	NS	19 J	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Benzyl Alcohol	100-51-6	NS	1.6 J	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Biphenyl	92-52-4	NS	2 U	2 U	2 U	2 U	2 U	0.87 J	2 U	2 U	2 U	2 U	2 U
Bis(2-chloroethoxy)methane	111-91-1	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bis(2-chloroethyl)ether	111-44-4	1	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-chloroisopropyl)ether	108-60-1	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-ethylhexyl)phthalate	117-81-7	5	3 U	3 U	8.7	7	2.9 J	3.8	1.8 J	3 U	2.4 J	1.7 J	1.5 J
Butyl benzyl phthalate	85-68-7	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbazole	86-74-8	NS	2 U	2 U	2 U	2 U	2 U	5.8	2 U	2 U	2 U	2 U	2 U
Di-n-butylphthalate	84-74-2	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 J	1.2 J	1.1 J
Di-n-octylphthalate	117-84-0	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibenzofuran	132-64-9	NS	2 U	2 U	2.6	2 U	2 U	6.1	2 U	2 U	2 U	2.1	2 U
Diethyl phthalate	84-66-2	50	2.5 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dimethyl phthalate	131-11-3	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Hexachlorocyclopentadiene	77-47-4	5	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Isophorone	78-59-1	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
n-Nitrosodi-n-propylamine	621-64-7	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
NDPA/DPA	86-30-6	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Nitrobenzene	98-95-3	0.4	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
p-Chloro-m-cresol	59-50-7	NS	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Phenol	108-95-2	1	2.9 J	5 U	5 U	5 U	5 U	0.99 J	5 U	5 U	5 U	5 U	5 U
Semi-Volatile Organic Compounds by USEPA Method 8270 in µg/L SIM													
2-Chloronaphthalene	91-58-7	10	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Methylnaphthalene	91-57-6	NS	0.05 J	0.05 J	5.8	0.08 J	0.2 U	190	0.04 J	0.04 J	0.04 J	5.8	0.1 U
Acenaphthene	83-32-9	20	0.1 U	0.03 J	3.9	0.05 J	6.4	7.7	0.1 U	0.1 U	0.03 J	3.9	0.1 U
Acenaphthylene	208-96-8	NS	0.1 U	0.1 U	2	0.08 J	1.8	2.2	0.1 U	0.09 J	0.03 J	0.61	0.1 U
Anthracene	120-12-7	50	0.03 J	0.02 J	1.2	0.1	0.2 U	0.5 U	0.02 J	0.12	0.05 J	0.25	0.02 J
Benzo(a)anthracene	56-55-3	0.002	0.03 J	0.03 J	0.11	0.37	0.1 J	0.2 J	0.18	0.32	0.06 J	0.05 J	0.12
Benzo(a)pyrene	50-32-8	0	0.1 U	0.03 J	0.13	0.6	0.04 J	0.5 U	0.31	0.68	0.09 J	0.06 J	0.22
Benzo(b)fluoranthene	205-99-2	0.002	0.1 U	0.08 J	0.46	2.9	0.09 J	0.12 J	0.7	1.9	0.3	0.16	0.45
Benzo(ghi)perylene	191-24-2	NS	0.1 U	0.08 J	0.36	1.4	0.06 J	0.09 J	1.1	1.6	0.18	0.14	0.82
Benzo(k)fluoranthene	207-08-9	0.002	0.1 U	0.02 J	0.1	0.79	0.02 J	0.08 J	0.17	0.46	0.08 J	0.05 J	0.13
Chrysene	218-01-9	0.002	0.1 U	0.03 J	0.38	2	0.17 J	0.19 J	0.34	0.81	0.17	0.09 J	0.25
Dibenzo(a,h)anthracene	53-70-3	NS	0.1 U	0.02 J	0.05 J	0.28	0.2 U	0.5 U	0.11	0.28	0.06 J	0.03 J	0.08 J
Fluoranthene	206-44-0	50	0.03 J	0.03 J	0.41	0.71	0.2 U	0.5 U	0.36	0.56	0.11	0.12	0.28
Fluorene	86-73-7	50	0.1 U	0.02 J	5.4	0.1 U	9.9	10	0.1 U	0.1 U	0.05 J	4.2	0.1 U
Hexachlorobenzene	118-74-1	0.04	0.8 U	0.8 U	0.8 U	0.8 U	1.6 U	4 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Hexachlorobutadiene	87-68-3	0.5	0.5 U	0.5 U	0.5 U	0.5 U	1 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachloroethane	67-72-1	5	0.8 U	0.8 U	0.8 U	0.8 U	1.6 U	4 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	0.1 U	0.08 J	0.38	1.5	0.06 J	0.08 J	0.81	1.6	0.2	0.13	0.59
Naphthalene	91-20-3	10	0.06 J	0.07 J	0.68	0.21	0.2 U	29	0.12	0.09 J	0.07 J	0.21	0.1 U
Pentachlorophenol	87-86-5	1	0.8 U	0.8 U	0.8 U	0.8 U	1.6 U	4 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Phenanthrene	85-01-8	50	0.1 U	0.1 U	6.3	0.12	16	15	0.11	0.13	0.06 J	2.4	0.09 J
Pyrene	129-00-0	50	0.05 J	0.03 J	2.1	1.4	2.2	2.5	0.28	0.87	0.23	0.28	0.21

Notes:
(1) NYSDEC Ambient Water Quality Standards and Guidance Values 6/1998
MW005 was re-installed in 2021; therefore, the screened intervals are different between the 2019 and 2021 sampling events.
NS - No Standard
NA - Not Analyzed
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL
U - The analyte was analyzed for, but was not detected above the reported sample quantification limit. The assocaited numerical value is the sample quantitation limit.
Blind duplicates: DUP003 = MW081
Highlighted values indicate exceedance of the NYSDEC AWQS

Table 9
Groundwater Metal Analytical Data
731-747 4th Avenue, Brooklyn, NY

Client Sample ID:	CAS Number	NYSDEC	MW002		MW-3		MW-6		MW-7		MW-8		MW-31	
Sampling Date:		Groundwater	3/11/2022		3/11/2022		3/11/2022		3/11/2022		3/11/2022		3/11/2022	
Laboratory ID:		Quality Standards	L2213494-01	L2212979-03	L2212899-06		L2212899-02		L2212979-01		L2212899-07		L2212899-01	
Sample Type:		(1)	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Total Metals by USEPA Method 6010 in µg/L														
Aluminum	7429-90-5	NS	50,900	9.87 J	239	10 U	177	10 U	6,110	172	237	10 U	70.9	3.45 J
Antimony	7440-36-0	3	0.7 J	0.8 J	4 U	0.62 J	0.69 J	0.5 J	1.34 J	1.75 J	0.52 J	0.7 J	4 U	8.46
Arsenic	7440-38-2	25	14.55	0.78	37.57	0.92	65.14	2.62	7.51	1.1	114.9	5.57	201.6	7.96
Barium	7440-39-3	1,000	1066	62.26	294.5	152.9	276.1	177.2	69.51	16.76	262.1	121.5	536.9	331.1
Beryllium	7440-41-7	3	8.84	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.44 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cadmium	7440-43-9	5	6.09	0.49	0.89	0.32	4.51	0.2 U	0.79	0.2 U	0.23	0.2 U	0.12 J	0.2 U
Calcium	7440-70-2	NS	68,700	64,700	131,000	137,000	107,000	126,000	17,300	13,400	67,800	76,700	163,000	212,000
Chromium	7440-47-3	50	343.6	0.81 J	1.09	1 U	1.11	1 U	20.48	0.61 J	1.34	0.25 J	0.87 J	0.28 J
Cobalt	7440-48-4	NS	88.97	20.34	3.64	1.65	3.38	3.71	5.54	0.83	3.09	1.81	0.79	0.72
Copper	7440-50-8	200	357.7	2.35	4.46	0.85 J	14.5	1 U	88.69	1.78	9.86	1 U	3.42	0.41 J
Iron	7439-89-6	300	112,000	55.6	20,300	23.6 J	71,100	42,800	11,800	293	43,000	2,460	89,400	58,200
Lead	7439-92-1	25	734.7	1 U	4.02	1 U	7.37	1 U	60.83	0.86 J	5.23	1 U	1.07	1 U
Magnesium	7439-95-4	35,000	50,100	20,800	50,600	48,200	53,100	61,100	5,630	2,080	8,270	8,480	44,100	50,200
Manganese	7439-96-5	300	14,620	7,382	16,610	13,570	2,828	3,356	375.7	219	802.4	861.6	1,080	1,288
Mercury	7439-97-6	0.7	- -	0.2 U	0.2 U	0.2 U	0.09 J	0.2 U	0.27 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	7440-02-0	100	281	73.16	9.8	7.02	6.63	5.33	48.34	2.49	3.96	1.68 J	1.85 J	1.35 J
Potassium	9/7/7440	NS	38,800	37,800	6,500	6,400	2,990	3,350	3,140	2,260	5,220	5,580	2,080	2,800
Selenium	7782-49-2	10	17.5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Silver	7440-22-4	50	0.52	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	2.22	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Sodium	7440-23-5	20,000	90,500	101,000	341,000	406,000	257,000	326,000	68,800	71,400	327,000	416,000	116,000	162,000
Thallium	7440-28-0	0.5	0.82 J	0.15 J	2 U	1 U	0.32 J	0.27 J	0.3 J	0.15 J	0.43 J	1 U	0.14 J	0.35 J
Vanadium	7440-62-2	NS	111.6	5 U	2.16 J	5 U	3.14 J	5 U	20.16	5 U	3.25 J	5 U	5 U	5 U
Zinc	7440-66-6	2,000	1104	22.47	20.26	10 U	89.63	6.23 J	1277	27.01	257.7	10 U	13.24	10 U

Notes:
(1) NYSDEC Ambient Water Quality Standards and Guidance Values 6/1998
NS - No Standard
NA - Not Analyzed
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U - The analyte was analyzed for, but was not detected above the reported sample quantification limit. The assocaited numerical value is the sample quantitation limit.
Blind duplicates: DUP003 = MW081
Highlighted values indicate exceedance of the NYSDEC AWQS

Table 9
Groundwater Metal Analytical Data
731-747 4th Avenue, Brooklyn, NY

Client Sample ID: / Sampling Date: / Laboratory ID: / Sample Type:	CAS Number	NYSDEC Groundwater Quality Standards (1)	MW-81 3/11/2022 L2212899-04		MW-82 3/11/2022 L2212899-05		MW-84 3/11/2022 L2212899-03		MW-86 3/11/2022 L2212979-02		DUP003 3/11/2022 L2212899-08	
			Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Total Metals by USEPA Method 6010 in µg/L												
Aluminum	7429-90-5	NS	371	10 U	823	8.42 J	4270	6.36 J	97.8	4.33 J	333	10 U
Antimony	7440-36-0	3	4 U	1.26 J	1.08 J	1.41 J	1.93 J	4.94	4 U	4 U	4 U	0.56 J
Arsenic	7440-38-2	25	1.07	0.44 J	7.19	1.06	28.3	6.3	22.13	2.89	1.06	0.34 J
Barium	7440-39-3	1,000	150.2	148.1	40.72	27	55.61	20.32	168.3	121.5	146.8	144.8
Beryllium	7440-41-7	3	0.5 U	0.5 U	0.5 U	0.5 U	0.45 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cadmium	7440-43-9	5	0.97	0.67	0.2 U	0.2 U	0.25	0.2 U	0.98	0.2 U	0.86	0.57
Calcium	7440-70-2	NS	146,000	130,000	22,500	20,200	16,000	15,000	151,000	148,000	145,000	129,000
Chromium	7440-47-3	50	2.2	0.78 J	3.3	0.27 J	9.13	0.19 J	0.73 J	1 U	2.18	0.71 J
Cobalt	7440-48-4	NS	0.9	0.5 U	1.21	0.56	6.83	2.66	1.05	0.78	0.86	0.5 U
Copper	7440-50-8	200	6.03	0.75 J	18.52	1.36	16.43	1.47	8.26	1 U	4.71	0.75 J
Iron	7439-89-6	300	1,060	50 U	6,680	272	7,760	50 U	45,200	18,800	984	50 U
Lead	7439-92-1	25	5.03	1 U	10.05	1 U	9.77	1 U	2.5	1 U	3.38	1 U
Magnesium	7439-95-4	35,000	23,100	20,300	3,290	2,370	4,660	2,710	56,800	47,200	23,000	20,900
Manganese	7439-96-5	300	60	3	962	909.3	372	220.2	2,344	2,054	62.03	2.14
Mercury	7439-97-6	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	7440-02-0	100	5.73	3.1	3.54	1.14 J	22.67	9.31	1.61 J	0.81 J	6.07	3.11
Potassium	9/7/7440	NS	7,030	6,400	3,590	3,340	2,430	1,590	10,600	10,500	6,980	6,390
Selenium	7782-49-2	10	7.52	6.83	5 U	5 U	5 U	5 U	5 U	5 U	7.28	6.94
Silver	7440-22-4	50	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Sodium	7440-23-5	20,000	71,300	77,500	30,700	35,400	23,200	30,100	171,000	172,000	71,400	77,500
Thallium	7440-28-0	0.5	2 U	1 U	2 U	1 U	0.17 J	1 U	2 U	1 U	0.26 J	1 U
Vanadium	7440-62-2	NS	2.83 J	5 U	3.47 J	5 U	12.51	5 U	2 J	5 U	2.69 J	5 U
Zinc	7440-66-6	2,000	33.89	14.02	56.84	9.49 J	71.57	10.02	35.25	3.8 J	28.65	11.33

Notes:
(1) NYSDEC Ambient Water Quality Standards and Guidance Valu
NS - No Standard
NA - Not Analyzed
J - Data indicates the presence of a compound that meets the id
U - The analyte was analyzed for, but was not detected above th
Blind duplicates: DUP003 = MW081
Highlighted values indicate exceedance of the NYSDEC AWQS

Table 10
Groundwater PCB and Pesticide Analytical Data
731-747 4th Avenue, Brooklyn, NY

Client Sample ID: / Sampling Date: / Laboratory ID:	CAS Number	NYSDEC Groundwater Quality Standards	MW002 3/11/2022 L2213494-01	MW003 3/10/2022 L2212899-06	MW006 3/10/2022 L2212899-02	MW007 3/11/2022 L2212979-01	MW008 3/10/2022 L2212899-07	MW031 3/11/2022 L2212899-01	MW081 3/10/2022 L2212899-04	MW082 3/10/2022 L2212899-05	MW084 3/10/2022 L2212899-03	MW086 3/11/2022 L2212979-02	DUP003 3/10/2022 L2212899-08
Organochlorine Pesticides by USEPA Method 8081 in µg/L													
4,4'-DDD	72-54-8	0.3	0.039 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U
4,4'-DDE	72-55-9	0.2	0.039 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U
4,4'-DDT	50-29-3	0.2	0.039 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U
Aldrin	309-00-2	0	0.019 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
Alpha-BHC	319-84-6	0.01	0.019 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
Beta-BHC	319-85-7	0.04	0.019 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
Chlordane	57-74-9	0.05	0.192 U	0.143 U	0.143 U	0.143 U	0.143 U	0.143 U	0.143 U	0.143 U	0.143 U	0.143 U	0.143 U
cis-Chlordane	5103-71-9	NS	0.019 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
Delta-BHC	319-86-8	0.04	0.019 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
Dieldrin	60-57-1	0.004	0.039 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U
Endosulfan I	959-98-8	NS	0.019 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
Endosulfan II	33213-65-9	NS	0.039 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U
Endosulfan sulfate	1031-07-8	NS	0.039 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U
Endrin	72-20-8	0	0.039 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U
Endrin aldehyde	7421-93-4	5	0.039 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U
Endrin ketone	53494-70-5	5	0.039 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U
Heptachlor	76-44-8	0.04	0.019 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
Heptachlor epoxide	1024-57-3	0.03	0.019 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
Lindane	58-89-9	0.05	0.019 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
Methoxychlor	72-43-5	35	0.192 U	0.143 U	0.143 U	0.143 U	0.143 U	0.143 U	0.143 U	0.143 U	0.143 U	0.143 U	0.143 U
Toxaphene	8001-35-2	0.06	0.192 U	0.143 U	0.143 U	0.143 U	0.143 U	0.143 U	0.143 U	0.143 U	0.143 U	0.143 U	0.143 U
trans-Chlordane	5103-74-2	NS	0.019 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
Polychlorinated Biphenyls by USEPA Method 8082 in µg/L													
Aroclor 1016	12674-11-2	0.09	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.357 U	0.071 U	0.071 U	0.071 U
Aroclor 1221	11104-28-2	0.09	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.357 U	0.071 U	0.071 U	0.071 U
Aroclor 1232	11141-16-5	0.09	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.357 U	0.071 U	0.071 U	0.071 U
Aroclor 1242	53469-21-9	0.09	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.357 U	0.071 U	0.071 U	0.071 U
Aroclor 1248	12672-29-6	0.09	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.357 U	0.071 U	0.071 U	0.071 U
Aroclor 1254	11097-69-1	0.09	0.066 J	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.357 U	0.071 U	0.071 U	0.071 U
Aroclor 1260	11096-82-5	0.09	0.064 J	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.357 U	0.071 U	0.071 U	0.071 U
Aroclor 1262	37324-23-5	0.09	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.357 U	0.071 U	0.071 U	0.071 U
Aroclor 1268	11100-14-4	0.09	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.357 U	0.071 U	0.071 U	0.071 U
PCBs, Total	1336-36-3	NS	0.131 J	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.357 U	0.071 U	0.071 U	0.071 U

Notes:
(1) NYSDEC Ambient Water Quality Standards and Guidance Values 6/1998
NS - No Standard
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL.
U - The analyte was analyzed for, but was not detected above the reported sample quantification limit. The assocaited numerical value is the sample quantitation limit.
Blind duplicates: DUP003 = MW081
Highlighted values indicate exceedance of the NYSDEC AWQS

Table 11
Groundwater PFAS Analytical Data
731-747 4th Avenue, Brooklyn, NY

Client Sample ID: Sampling Date: Laboratory ID:	CAS Number	NYSDEC Groundwater Quality Standards	MW002 3/11/2022 L2213494-01	MW003 3/10/2022 L2212899-06	MW006 3/10/2022 L2212899-02	MW007 3/11/2022 L2212979-01	MW008 3/10/2022 L2212899-07	MW031 3/11/2022 L2212899-01	MW081 3/10/2022 L2212899-04	MW082 3/10/2022 L2212899-05	MW084 3/10/2022 L2212899-03	MW086 3/11/2022 L2212979-02	DUP003 3/10/2022 L2212899-08
PFAS by USEPA modified method 537.1 in ug/L													
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	NS	0.00198 U	0.00208 U	0.00179 U	0.00248 U	0.00197 U	0.0018 U	0.002 U	0.00184 U	0.00277 U	0.00201 U	0.00197 U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	NS	0.00381	0.00217	0.00831	0.0066	0.00518	0.0018 U	0.002 U	0.00184 U	0.00243 J	0.00338	0.00197 U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSA/	2991-50-6	NS	0.00198 U	0.00208 U	0.00354	0.00672	0.00555	0.00824	0.002 U	0.0019	0.00182 J	0.0158	0.00197 U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFO	2355-31-9	NS	0.00198 U	0.00208 U	0.00179 U	0.00248 U	0.00197 U	0.0018 U	0.002 U	0.00184 U	0.00277 U	0.00201 U	0.00197 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	0.0129	0.0117	0.00813	0.000745 J	0.00678	0.0155 F	0.0072	0.000884 J	0.000504 J	0.00709	0.00708
Perfluorobutanoic Acid (PFBA)	375-22-4	NS	0.0388	0.0143	0.0087	0.0482	0.117	0.0902	0.0164	0.0186	0.00118 J	0.00773	0.0153
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	0.00198 U	0.00208 U	0.00179 U	0.00248 U	0.00197 U	0.0018 U	0.002 U	0.00184 U	0.00277 U	0.00201 U	0.00197 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	0.00731	0.00208 U	0.00179 U	0.000745 J	0.0007 JF	0.0018 U	0.002 U	0.00125 J	0.000981 J	0.00201 U	0.00197 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	0.00198 U	0.00208 U	0.000351 JF	0.000496 J	0.00197 U	0.0018 U	0.002 U	0.00184 U	0.00277 U	0.00201 U	0.00197 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	0.00198 U	0.00208 U	0.00179 U	0.00248 U	0.00197 U	0.0018 U	0.002 U	0.00184 U	0.00277 U	0.00201 U	0.00197 U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	NS	0.024	0.0105	0.00709	0.00154 J	0.0319	0.0437	0.04	0.00265	0.00136 J	0.012	0.0394
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	0.00977 F	0.0037	0.00179 U	0.00248 U	0.016	0.0509	0.0156	0.0128	0.00117 J	0.00503	0.0153
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	0.0353	0.0117	0.0329	0.00357	0.0159	0.0451	0.0272	0.0024	0.00148 J	0.0145	0.0268
Perfluorononanoic Acid (PFNA)	375-95-1	NS	0.00392	0.000495 J	0.00179 U	0.000993 J	0.000633 JF	0.0018 U	0.002 U	0.000774 J	0.00051 JF	0.000685 J	0.00197 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	0.00198 U	0.00208 U	0.00179 U	0.00248 U	0.00197 U	0.0018 U	0.002 U	0.00184 U	0.00277 U	0.00201 U	0.00197 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.0027	0.0169	0.00236	0.00584	0.00516 F	0.00208 F	0.0018 U	0.002 U	0.00258 F	0.00278	0.0122	0.00197 U
Perfluorooctanoic Acid (PFOA)	335-67-1	0.0067	0.0944	0.053	0.000824 J	0.00457	0.175	0.194	0.323	0.00881	0.00311	0.038	0.323
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	0.0404	0.0133	0.0297	0.00248 U	0.044	0.145	0.02	0.00619	0.00156 J	0.0202	0.0205
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	0.00198 U	0.00208 U	0.00179 U	0.00066 JF	0.00197 U	0.0018 U	0.002 U	0.00184 U	0.00277 U	0.00201 U	0.00197 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	0.00198 U	0.00208 U	0.00179 U	0.000794 JF	0.00197 U	0.0018 U	0.002 U	0.00184 U	0.00277 U	0.00201 U	0.00197 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	0.000392 JF	0.00208 U	0.00179 U	0.000437 J	0.000389 J	0.0018 U	0.002 U	0.000593 J	0.00277 U	0.00201 U	0.00197 U
PFOA/PFOS, Total		NS	0.111	0.0554	0.00666 J	0.00973	0.177	0.194	0.323	0.0114	0.00589	0.0502	0.323
Semi-Volatile Organic Compounds by USEPA Method 8270 in µg/L SIM													
1,4-Dioxane	123-91-1	1[(2)]	0.271	0.144 U	0.11 J	0.144 U	0.159	0.117 J	0.144 U	0.139 U	0.15 U	0.139 U	0.15 U

Notes:
(1) NYSDEC Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs, June 2021
(2) NYS maximum contaminant level for drinking water
NS - No Standard
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL.
U - The analyte was analyzed for, but was not detected above the reported sample quantification limit. The assocaited numerical value is the sample quantitation limit.
Blind duplicates: DUP003 = MW081
Highlighted values indicate exceedance of the NYSDEC AWQS

Table 12
Soil Vapor / Ambient Air VOC Analytical Data
731-747 4th Avenue, Brooklyn, NY

Sample ID: Type of Sample: Sampling Date: Lab Sample ID:	CAS Number	SS001 Sub-Slab 3/10/2022 L2212858-07	SS002 Sub-Slab 3/10/2022 L2212858-08	SS003 Sub-Slab 3/10/2022 L2212858-09	SS004 Sub-Slab 3/10/2022 L2212858-10	SV001 Soil Vapor 3/10/2022 L2212858-01	SV002 Soil Vapor 3/10/2022 L2212858-02	SV003 Soil Vapor 3/10/2022 L2212858-03	SV004 Soil Vapor 3/10/2022 L2212858-04	SV005 Soil Vapor 3/10/2022 L2212858-05	SV006 Soil Vapor 3/10/2022 L2212858-06	IA001 Indoor Air 3/10/2022 L2212858-11	IA001 Indoor Air 3/10/2022 L2212858-11R1	IA002 Indoor Air 3/10/2022 L2212858-12	IA002 Indoor Air 3/10/2022 L2212858-12R1	IA003 Indoor Air 3/10/2022 L2212858-13
Volatile Organics in Air in µg/m3																
1,1,1-Trichloroethane	71-55-6	48.6 U	1.09 U	1.09 U	1.09 U	9.11 U	12.8 U	3.41 U	6.82 U	10.9 U	12.9 U	0.109 U	- -	0.109 U	- -	0.109 U
1,1,2,2-Tetrachloroethane	79-34-5	61.2 U	1.37 U	1.37 U	1.37 U	11.5 U	16.1 U	4.29 U	8.58 U	13.7 U	16.2 U	1.37 U	- -	1.37 U	- -	1.37 U
1,1,2-Trichloroethane	79-00-5	48.6 U	1.09 U	1.09 U	1.09 U	9.11 U	12.8 U	3.41 U	6.82 U	10.9 U	12.9 U	1.09 U	- -	1.09 U	- -	1.09 U
1,1-Dichloroethane	75-34-3	36.1 U	0.809 U	0.809 U	0.809 U	6.76 U	9.47 U	2.53 U	5.06 U	8.09 U	9.55 U	0.809 U	- -	0.809 U	- -	0.809 U
1,1-Dichloroethene	75-35-4	35.3 U	0.793 U	0.793 U	0.793 U	6.62 U	9.28 U	2.48 U	4.96 U	7.93 U	9.36 U	0.079 U	- -	0.079 U	- -	0.079 U
1,2,4-Trichlorobenzene	120-82-1	66.1 U	1.48 U	1.48 U	1.48 U	12.4 U	17.4 U	4.64 U	9.28 U	14.8 U	17.5 U	1.48 U	- -	1.48 U	- -	1.48 U
1,2,4-Trimethylbenzene	95-63-6	43.8 U	4.85	7.82	2.79	8.21 U	11.5 U	3.07 U	6.15 U	9.83 U	11.6 U	21.8	- -	40.6	- -	4.36
1,2-Dibromoethane	106-93-4	68.5 U	1.54 U	1.54 U	1.54 U	12.8 U	18 U	4.8 U	9.61 U	15.4 U	18.1 U	1.54 U	- -	1.54 U	- -	1.54 U
1,2-Dichlorobenzene	95-50-1	53.6 U	1.2 U	1.2 U	1.2 U	10 U	14.1 U	3.76 U	7.52 U	12 U	14.2 U	1.2 U	- -	1.2 U	- -	1.2 U
1,2-Dichloroethane	107-06-2	36.1 U	0.809 U	0.809 U	0.809 U	6.76 U	9.47 U	2.53 U	5.06 U	8.09 U	9.55 U	0.809 U	- -	0.809 U	- -	0.809 U
1,2-Dichloropropane	78-87-5	41.2 U	0.924 U	0.924 U	0.924 U	7.72 U	10.8 U	2.89 U	5.78 U	9.24 U	10.9 U	0.924 U	- -	0.924 U	- -	0.924 U
1,3,5-Trimethylbenzene	108-67-8	43.8 U	1.28	2.14	0.983 U	8.21 U	11.5 U	3.07 U	6.15 U	9.83 U	11.6 U	6.1	- -	11	- -	1.06
1,3-Butadiene	106-99-0	19.7 U	0.442 U	0.442 U	0.442 U	3.69 U	5.18 U	1.38 U	2.77 U	4.42 U	5.22 U	0.591	- -	3.14	- -	0.502
1,3-Dichlorobenzene	541-73-1	53.6 U	1.2 U	1.2 U	1.2 U	10 U	14.1 U	3.76 U	7.52 U	12 U	14.2 U	1.2 U	- -	1.2 U	- -	1.2 U
1,4-Dichlorobenzene	106-46-7	53.6 U	1.2 U	1.2 U	1.2 U	10 U	14.1 U	3.76 U	7.52 U	12 U	14.2 U	1.2 U	- -	1.2 U	- -	1.2 U
1,4-Dioxane	123-91-1	32.1 U	0.721 U	0.721 U	0.721 U	6.02 U	8.43 U	2.25 U	4.5 U	7.21 U	8.5 U	0.721 U	- -	0.721 U	- -	0.721 U
2,2,4-Trimethylpentane	540-84-1	41.6 U	1.87	2.93	1.39	7.8 U	10.9 U	2.92 U	5.84 U	9.34 U	21	13.3	- -	101	- -	9.43
2-Butanone	78-93-3	504	125	179	36.9	1,630	3,010	894	1,310	1,990	3,100	84.3	- -	20.4	- -	6.16
2-Hexanone	591-78-6	36.5 U	14.3	39.9	6.88	39	99.6	28.9	34.3	65.2	187	0.82 U	- -	0.82 U	- -	0.82 U
3-Chloropropene	107-05-1	27.9 U	0.626 U	0.626 U	0.626 U	5.23 U	7.32 U	1.96 U	3.91 U	6.26 U	7.39 U	0.626 U	- -	0.626 U	- -	0.626 U
4-Ethyltoluene	622-96-8	43.8 U	1.24	1.57	0.983 U	8.21 U	11.5 U	3.07 U	6.15 U	9.83 U	11.6 U	4.74	- -	9.49	- -	0.983 U
4-Methyl-2-pentanone	108-10-1	91.4 U	2.05 U	2.05 U	21.1	17.1 U	24 U	6.39 U	12.8 U	20.5 U	24.2 U	9.92	- -	3.35	- -	3.67
Acetone	67-64-1	10,100	90	240	25.4	1,240	2,610	803	1,200	1,750	1,590	1,290 E	1,190	259	- -	86.2
Benzene	71-43-2	28.5 U	0.658	1.53	1.26	5.34 U	7.48 U	2 U	3.99 U	6.39 U	7.54 U	5.91	- -	33.9	- -	4.22
Benzyl chloride	100-44-7	46.1 U	1.04 U	1.04 U	1.04 U	8.65 U	12.1 U	3.24 U	6.47 U	10.4 U	12.2 U	1.04 U	- -	1.04 U	- -	1.04 U
Bromodichloromethane	75-27-4	59.7 U	1.34 U	1.34 U	1.46	11.2 U	15.7 U	4.19 U	8.37 U	13.4 U	15.8 U	1.34 U	- -	1.34 U	- -	1.34 U
Bromoform	75-25-2	92.1 U	2.07 U	2.07 U	2.07 U	17.3 U	24.2 U	6.46 U	12.9 U	20.7 U	24.4 U	2.07 U	- -	2.07 U	- -	2.07 U
Bromomethane	74-83-9	34.6 U	0.777 U	0.777 U	0.777 U	6.48 U	9.09 U	2.43 U	4.85 U	7.77 U	9.16 U	0.777 U	- -	0.777 U	- -	0.777 U
Carbon disulfide	75-15-0	27.7 U	0.623 U	0.956	0.623 U	5.2 U	7.29 U	1.95 U	3.89 U	6.23 U	7.35 U	0.623 U	- -	0.623 U	- -	0.623 U
Carbon tetrachloride	56-23-5	56 U	1.26 U	1.26 U	1.26 U	10.5 U	14.7 U	3.93 U	7.86 U	12.6 U	14.8 U	0.472	- -	0.491	- -	0.478
Chlorobenzene	108-90-7	41 U	0.921 U	0.921 U	0.921 U	7.69 U	10.8 U	2.88 U	5.76 U	9.21 U	10.9 U	0.921 U	- -	0.921 U	- -	0.921 U
Chloroethane	75-00-3	23.5 U	0.528 U	0.528 U	0.528 U	4.41 U	6.17 U	1.65 U	3.3 U	5.28 U	6.23 U	0.528 U	- -	0.528 U	- -	0.528 U
Chloroform	67-66-3	43.5 U	0.977 U	0.977 U	25.4	8.16 U	67.4	3.05 U	6.1 U	88.4	11.5 U	1.44	- -	0.977 U	- -	0.977 U
Chloromethane	74-87-3	18.4 U	0.413 U	0.413 U	1.03	3.45 U	4.83 U	1.29 U	2.58 U	4.13 U	4.87 U	1.3	- -	1.2	- -	1.7
cis-1,2-Dichloroethene	156-59-2	35.3 U	0.793 U	0.793 U	0.793 U	6.62 U	9.28 U	2.48 U	4.96 U	7.93 U	9.36 U	0.079 U	- -	0.079 U	- -	0.079 U
cis-1,3-Dichloropropene	10061-01-5	40.5 U	0.908 U	0.908 U	0.908 U	7.58 U	10.6 U	2.84 U	5.67 U	9.08 U	10.7 U	0.908 U	- -	0.908 U	- -	0.908 U
Cyclohexane	110-82-7	30.7 U	0.688 U	1.01	0.688 U	5.75 U	8.05 U	2.15 U	4.3 U	6.88 U	8.12 U	5.51	- -	32.7	- -	3.14
Dibromochloromethane	124-48-1	75.9 U	1.7 U	1.7 U	1.7 U	14.2 U	19.9 U	5.32 U	10.6 U	17 U	20.1 U	1.7 U	- -	1.7 U	- -	1.7 U
Dichlorodifluoromethane	75-71-8	44.1 U	2.53	2.44	2.31	8.26 U	11.6 U	3.09 U	6.18 U	9.89 U	11.7 U	2.48	- -	2.22	- -	2.66
Ethanol	64-17-5	420 U	11.7	9.42 U	28.8	78.6 U	127	32.4	58.8 U	94.2 U	111 U	79.7	- -	305	- -	171
Ethyl Acetate	141-78-6	551	1.8 U	1.8 U	1.8 U	15 U	21.1 U	5.62 U	11.2 U	18 U	21.3 U	69.9	- -	11.6	- -	3.45
Ethylbenzene	100-41-4	443	20.8	13.2	1.11	7.25 U	10.2 U	2.71 U	5.43 U	8.69 U	10.3 U	187	- -	99.9	- -	22.8
Freon-113	76-13-1	68.3 U	1.53 U	1.53 U	1.53 U	12.8 U	17.9 U	4.79 U	9.58 U	15.3 U	18.1 U	1.53 U	- -	1.53 U	- -	1.53 U
Freon-114	76-14-2	62.3 U	1.4 U	1.4 U	1.4 U	11.7 U	16.4 U	4.37 U	8.74 U	14 U	16.5 U	1.4 U	- -	1.4 U	- -	1.4 U
Heptane	142-82-5	184	5.61	3.39	2.81	6.93	9.59 U	3.89	5.12 U	8.2 U	9.67 U	34.5	- -	68.8	- -	6.6
Hexachlorobutadiene	87-68-3	95 U	2.13 U	2.13 U	2.13 U	17.8 U	25 U	6.67 U	13.3 U	21.3 U	25.2 U	2.13 U	- -	2.13 U	- -	2.13 U
Isopropanol	67-63-0	1830	4.42	3.34	11	12.2	28.8	6.96	13.7	28	16.1	243	- -	64.9	- -	28.3
Methyl tert butyl ether	1634-04-4	32.1 U	0.721 U	0.721 U	0.721 U	6.02 U	8.44 U	2.25 U	4.51 U	7.21 U	8.51 U	0.721 U	- -	0.721 U	- -	0.721 U
Methylene chloride	75-09-2	77.5 U	1.74 U	1.74 U	8.48	14.5 U	20.4 U	5.42 U	10.8 U	17.4 U	20.5 U	1.74 U	- -	8.13	- -	1.74 U
n-Hexane	110-54-3	284	10.6	3.2	1.69	5.89 U	8.25 U	2.96	4.55	7.05 U	8.32 U	41.2	- -	100	- -	10
o-Xylene	95-47-6	168	11.6	9.51	1.58	7.25 U	10.2 U	2.71 U	5.43 U	8.69 U	10.3 U	116	- -	55.2	- -	9.86
p/m-Xylene	179601-23-1	556	31.3	24.3	3.71	15.7	20.4 U	5.43 U	10.9 U	17.4 U	20.5 U	334	- -	169	- -	32.4
Styrene	100-42-5	244	46	10.8	0.852 U	7.11 U	9.96 U	2.66 U	5.32 U	8.52 U	10 U	215	- -	117	- -	25.1
Tertiary butyl Alcohol	75-65-0	67.6 U	1.94	3.82	1.52 U	12.6 U	17.8 U	4.73 U	9.46 U	15.2 U	17.9 U	2.47	- -	1.52 U	- -	1.52 U
Tetrachloroethene	127-18-4	60.4 U	2.13	6.59	3.75	11.3 U	15.9 U	4.24 U	8.48 U	13.6 U	16 U	0.705	- -	0.563	- -	0.57
Tetrahydrofuran	109-99-9	65.8 U	1.47 U	1.47 U	3.54	12.3 U	17.3 U	4.6 U	9.2 U	14.7 U	17.4 U	2.23	- -	1.47 U	- -	1.57
Toluene	108-88-3	13,000	74.6	50.5	6.26	12	9.61	4.6	4.71 U	7.54 U	11.8	1,140 E	1,680	475 E	543	97.6
trans-1,2-Dichloroethene	156-60-5	35.3 U	0.793 U	0.793 U	0.793 U	6.62 U	9.28 U	2.48 U	4.96 U	7.93 U	9.36 U	0.793 U	- -	0.793 U	- -	0.793 U
trans-1,3-Dichloropropene	10061-02-6	40.5 U	0.908 U	0.908 U	0.908 U	7.58 U	10.6 U	2.84 U	5.67 U	9.08 U	10.7 U	0.908 U	- -	0.908 U	- -	0.908 U
Trichloroethene	79-01-6	47.9 U	1.07 U	1.07 U	1.07 U	8.97 U	12.6 U	3.36 U	6.72 U	10.7 U	12.7 U	0.107 U	- -	0.107 U	- -	0.107 U
Trichlorofluoromethane	75-69-4	50.1 U	1.38	1.17	1.4	9.38 U	13.1 U	3.51 U	7.02 U	11.2 U	13.3 U	1.3	- -	1.28	- -	1.38
Vinyl bromide	593-60-2	39 U	0.874 U	0.874 U	0.874 U	7.3 U	10.2 U	2.73 U	5.47 U	8.74 U	10.3 U	0.874 U	- -	0.874 U	- -	0.874 U
Vinyl chloride	75-01-4	22.8 U	0.511 U	0.511 U	0.511 U	4.27 U	5.98 U	1.6 U	3.2 U	5.11 U	6.03 U	0.051 U	- -	0.051 U	- -	0.051 U

Notes:
J - Estimated Value
U - The compound was not detected at the indicated concentration
Shaded text denotes detected concentrations greater than laboratory reporting limits

APPENDIX A

GEOPHYSICAL SURVEY REPORT

P.W. GROSSER CONSULTING, INC.
P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, P.C.
PHONE: 631.589.6353
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630 JOHNSON AVENUE, STE 7
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LONG ISLAND • MANHATTAN • SARATOGA SPRINGS • SYRACUSE • SEATTLE • SHELTON

DELTA Geophysics Inc.

GEOPHYSICAL INVESTIGATION REPORT

SITE LOCATION:

731-747 4th Avenue
Brooklyn, New York

PREPARED FOR:

P.W. Grosser Consulting, Inc.
630 Johnson Avenue, Suite 7
Bohemia, New York

PREPARED BY:

Terrell Pruitt
Delta Geophysics, Inc.
738 Front Street
Catasauqua, PA 18032

March 1, 2022

1.0 INTRODUCTION

On March 1, 2022 Delta Geophysics, Inc. personnel performed a limited geophysical investigation at 731-747 4th Avenue, Brooklyn, New York. Subsurface conditions were unknown at the time of the survey; surface conditions consisted of asphalt and reinforced concrete.

2.0 SCOPE OF WORK

The objective of this survey was to conduct a geophysical survey of the Site for potential anomalies consistent with underground storage tanks (USTs), subsurface utilities, and dry wells that might impact the locations of test borings proposed for the Site. The survey included exterior areas of the Site that were accessible and free of trash containers, and other debris/metal objects.

3.0 METHODOLOGY

Selection of survey equipment is dependent upon site conditions and project objectives. For this project the technician utilized the following equipment to survey the area of concern:

- Geophysical Survey Systems Inc. SIR-3000 cart-mounted Ground Penetrating Radar (GPR) control unit with a 400 Mhz antenna;
- Radiodetection RD7000 precision utility locator;
- Fisher M-Scope TW-6 pipe and cable locator.

Ground penetrating radar (commonly called GPR) is a geophysical method that has been developed over the past thirty years for shallow, high-resolution, subsurface investigations of the earth. GPR uses high frequency pulsed electromagnetic waves (generally 10 MHz to 2,000 MHz) to acquire subsurface information. Energy is propagated downward into the ground and is reflected back to the surface from boundaries at which there are electrical property contrasts. GPR is a method that is commonly used for environmental, engineering, archeological, and other shallow investigations. The GSSI SIR-3000 GPR can accept a wide variety of antennas which provide various depths of penetration and levels of resolution.

Signal penetration decreases with increased soil conductivity and moisture; i.e. conductive materials attenuate or absorb the GPR signal. As depth increases the return signal becomes weaker. Penetration is the greatest in unsaturated sands and fine gravels and dry, well cured concrete. Clayey, highly saline or saturated soils, areas covered by steel reinforced concrete, foundry slag, uncured concrete, or other highly conductive materials significantly reduce depth penetration of the GPR signal.

The 400 MHz antenna can achieve depths of penetration up to about 20 feet, but this depth may be greatly reduced due to site-specific conditions as discussed above.

The RD7000 precision utility locator uses radio emission to trace the location of metal bearing utilities. This radio emission can be active or passive. Active tracing requires the attachment of a radio transmitter to the utility, passive tracing uses radio emissions that are present on the utility. Underground electrical utilities typically emit radio signals that this device can detect in a passive mode.

The TW-6 is designed to find pipes, cables and other metallic objects such as underground storage tanks. One surveyor can carry both the transmitter and receiver together, making it ideally suited for exploration type searches of ferrous metal masses. Metal detectors of this type operate by generating a magnetic field at the transmitter which causes metallic objects in the subsurface to generate a secondary magnetic field. The induced secondary field is detected by the receiver, which generates an audible tone equal to the strength of the secondary field. In operation the transmitter generates an alternating electromagnetic field at a nominal frequency of 81.92 KHz. This induces a secondary electromagnetic field in the ground around the instrument. This induced field causes distortions in the primary field created by the transmitter. Nulling of the instrument orients the receiver parallel to the plane of the combined primary and secondary fields. Passing the instrument over an underground metallic object will change the balance between the primary and secondary electromagnetic fields. This causes the receiver alignment to change which generates an audible tone and meter response equal to the shift of the combined fields.

4.0 SURVEY FINDINGS

4.1 Utility Survey

All accessible areas of the Site as specified by the client were examined during this survey. As previously stated, instrumentation used during the survey included the RD7000, TW-6, and GPR with 400MHz antenna.

Delta performed a utility survey in close proximity to proposed borings. The following utilities were identified: Electric, Sanitary Sewer, Gas, Water, Storm Drain, and Unknown Utilities. All utilities were marked onsite with appropriate colors. Unknown utilities were marked with pink and white paint.

5.0 SURVEY LIMITATIONS

The survey area was provided by the client on-site representative. Surveyed areas are depicted on the attached Site Sketch.

GPR data was collected with a 400MHz antenna configured to transmit to a depth of approximately 10 feet below the subsurface. Actual signal penetration for this project was limited to approximately 1-3 feet bgs. The limiting factor was due to conductive soils and reinforced concrete.

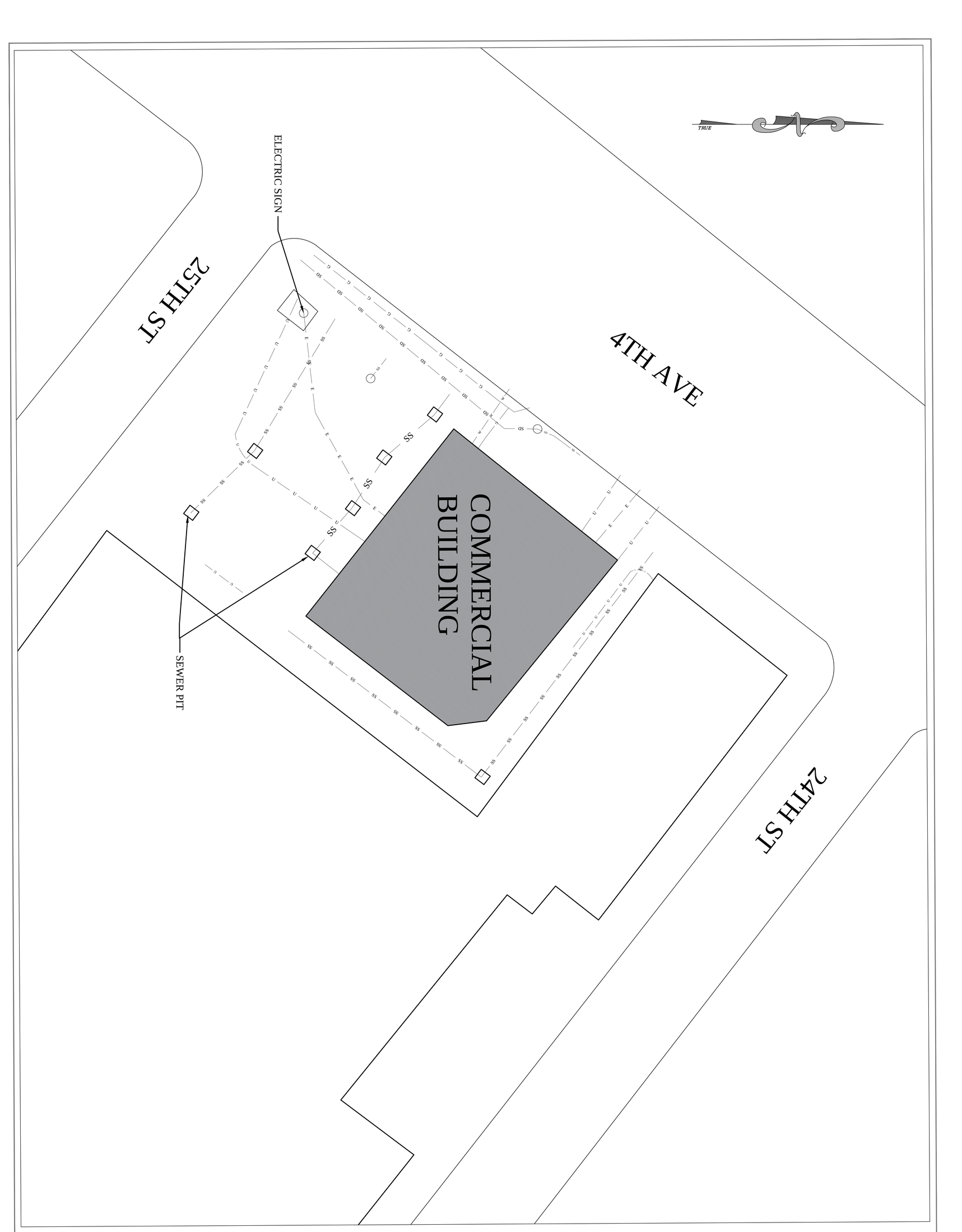
6.0 WARRANTIES AND DISCLAIMER

As with any geophysical method, it must be stressed that caution be used during any excavation or intrusive testing in proximity to any anomalies indicated in this report. In addition, the absence of detected signatures does not preclude the possibility that targets may exist. To the extent the client desires more definitive conclusions than are warranted by the currently available facts; it is specifically Delta's intent that the conclusions stated herein will be intended as guidance.

This report is based upon the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations. Professional judgments expressed herein are based on the facts currently available within the limit or scope of work, budget and schedule. Delta represents that the services were performed in a manner consistent with currently accepted professional practices employed by geophysical/geological consultants under similar circumstances. No other representations to Client, express or implied, and no warranty or guarantee is included or intended in this agreement, or in any report, document, or otherwise.

This report was prepared pursuant to the contract Delta has with the Client. That contractual relationship included an exchange of information about the property that was unique and between Delta and its client and serves as the basis upon which this report was prepared. Because of the importance of the understandings between Delta and its client, reliance or any use of this report by anyone other than the Client, for whom it was prepared, is prohibited and therefore not foreseeable to Delta.

Reliance or use by any such third party without explicit authorization in the report does not make said third party a third party beneficiary to Delta's contract with the Client. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.



NOTE:
This map was sketched from an photograph overlay and utilities/overlaps positioned relative to planted features in the photograph. This map is not intended to be used for construction or engineering purposes nor represented to be of survey precision. Conflict should be used in all field measurements based on this map. Utility and anomaly locations have been marked in the field, and field markings take precedence over any location derived from this sketch map.

As with any geophysical method, it must be stressed that positive (or even) testing are anomalies or structure testing is possibility of any anomalies indicated in this document. The absence of detected signatures does not preclude the possibility that targets exist. The geophysical data and results presented in this report are based on the data collected at the time and under the conditions described herein. Any changes in these conditions may require additional or modified interpretations. Professional judgements expressed herein are based on the facts currently available within the limits of the existing data, scope of work, budget, and schedule.

Reliance or use by any such third party without explicit authorization in the document does not create with third party a third party beneficiary to Delta's contract with the client. Any such unauthorized reliance on or use of this document, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties or representations, expressed or implied in this document, are made to any such third party.

0 15 30 60 90
GRAPHIC SCALE IN FEET

LEGEND
- MANHOLE COVER
- E — ELECTRIC
- G — GAS
- SD — STORM SEWER
- SS — SANITARY SEWER
- W — WATER
- U — UNKNOWN UTILITY

DRAWN BY: Terrell Pruitt
CHECKED BY:
DATE: 03/01/22
SCALE: 1" = 30'
DRAWING NO.: 220301-1
SHEET NO.: 1 OF 1
PROJECT NO.:

GEOPHYSICAL INVESTIGATION
731 4TH AVE
FOR
P.W GROSSER

DELTA Geophysics Inc.
738 Front Street, Catasauqua, PA 18032
Phone: (610) 231-73012

DATE	DESCRIPTION	REV.
	REVISIONS	

APPENDIX B

PWGC SOIL BORING LOGS

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PROJECT #:	TOT2101
SITE ADDRESS:	737 4th Avenue, Brooklyn
BORING ID:	SB001
WELL ID:	N/A
DRILLING CONTRACTOR:	Associated Environmental Services
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 7822DT
SAMPLING METHOD:	Dual Tube

BORING DEPTH (FT): 6	CORE LENGTH (FT): 5
BORING DIAMETER (IN): 2	WELL DIAMETER (IN): N/A
DATE STARTED: 03/01/2022	DATE FINISHED: 03/01/2022
TIME STARTED: 14:50	TIME FINISHED: 15:00
LATITUDE: N/A	LONGITUDE: N/A
PROJECT MANAGER: Jennifer Lewis	LOGGED BY: Michael Pecoraro

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)
0.0					
			2	(FILL) White; Concrete; Dry	2.2
1.0					
2.0					
3.0					
			1	(FILL) Brown, Black and Grey; Historic Fill; Dry and No Odor	0.5
4.0					
5.0					
6.0					

DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0.0	
1.0	
2.0	
3.0	
4.0	
5.0	
6.0	

PROJECT #:	TOT2101
SITE ADDRESS:	737 4th Avenue, Brooklyn
BORING ID:	SB002
WELL ID:	N/A
DRILLING CONTRACTOR:	Associated Environmental Services
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 7822DT
SAMPLING METHOD:	Dual Tube

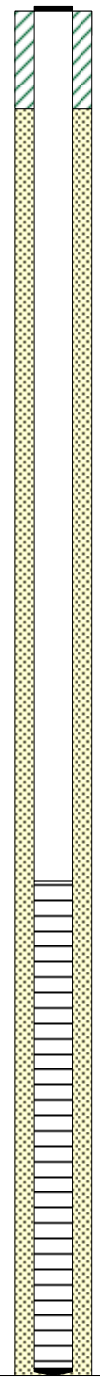
BORING DEPTH (FT): 20	CORE LENGTH (FT): 5
BORING DIAMETER (IN): 2	WELL DIAMETER (IN): N/A
DATE STARTED: 03/01/2022	DATE FINISHED: 03/01/2022
TIME STARTED: 14:55	TIME FINISHED: 16:00
LATITUDE: N/A	LONGITUDE: N/A
PROJECT MANAGER: Jennifer Lewis	LOGGED BY: Matthew Merrill

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0.0				(FILL) White; Concrete; Dry	0	0.0	
1.0			3	(ML) Red-Brown; Silty Clay Sand with Low Plasticity; Dry and No Odor	0	1.0	
2.0						2.0	
3.0						3.0	
4.0						4.0	
5.0			4	(ML) Red-Brown; Silty Clay Sand with Low Plasticity and Stones; Dry and No Odor	0	5.0	
6.0						6.0	
7.0						7.0	
8.0						8.0	
9.0						9.0	
10.0			0	Macrocore stuck in rod	0	10.0	
11.0						11.0	
12.0						12.0	
13.0						13.0	
14.0						14.0	
15.0			5	(ML) Red-Brown; Brown Silty Clay and Red Sands with Low Plasticity and Stones; Dry and No Odor	0	15.0	
16.0						16.0	
17.0						17.0	
18.0						18.0	
19.0						19.0	
20.0				Pulverized brown stone	0	20.0	

PROJECT #:	TOT2101
SITE ADDRESS:	737 4th Avenue, Brooklyn
BORING ID:	SB003
WELL ID:	PWGC-MW002
DRILLING CONTRACTOR:	Associated Environmental Services
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 7822DT
SAMPLING METHOD:	Dual Tube

BORING DEPTH (FT): 21	CORE LENGTH (FT): 5
BORING DIAMETER (IN): 2	WELL DIAMETER (IN): 2
DATE STARTED: 03/01/2022	DATE FINISHED: 03/01/2022
TIME STARTED: 10:45	TIME FINISHED: 12:15
LATITUDE: N/A	LONGITUDE: N/A
PROJECT MANAGER: Jennifer Lewis	LOGGED BY: Matthew Merrill

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)
0.0				(FILL) White; Concrete; Dry	0
2.0			4	(FILL) Black and Grey; Historic Fill with Concrete; Dry and No Odor	0
4.0					
6.0			2.5		
8.0					
10.0			4	(ML) Light Brown with Red Fines; Silty Clay Sand with Stones with Low Plasticity; Dry and No Odor	0
12.0					
14.0					
16.0			5	Pulverized Brown Stone	0
				(ML) Light Brown with Red Fines; Silty Clay Sand with Stones with Low Plasticity; Dry and No Odor	0
				Pulverized Brown Stone	0
18.0				(ML) Light Brown; Silty Clay Sand with Stones; Dry and No Odor	0
20.0					
22.0					
24.0					
26.0					
28.0					

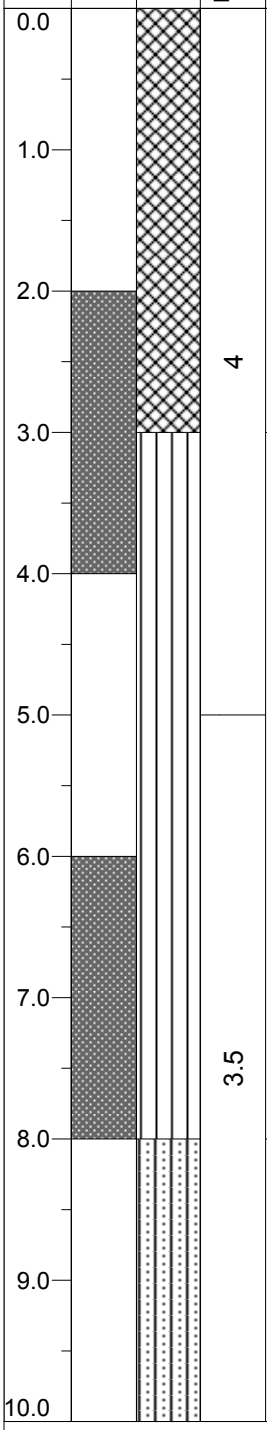


WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS

- J-plug
- Bentonite
- #2 sand
- 0.10" Screen

PROJECT #:	TOT2101		
SITE ADDRESS:	737 4th Avenue, Brooklyn		
BORING ID:	SB004	BORING DEPTH (FT): 20	CORE LENGTH (FT): 5
WELL ID:	N/A	BORING DIAMETER (IN): 2	WELL DIAMETER (IN): N/A
DRILLING CONTRACTOR:	Associated Environmental Services	DATE STARTED: 03/01/2022	DATE FINISHED: 03/01/2022
DRILLING METHOD:	Direct Push	TIME STARTED: 16:00	TIME FINISHED: 17:10
DRILLING EQUIPMENT:	Geoprobe 7822DT	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Dual Tube	PROJECT MANAGER: Jennifer Lewis	LOGGED BY: Michael Pecoraro

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0.0						0.0	
1.0				(FILL) Black and Grey; Historic Fill with Asphalt and Concrete; Dry and No Odor	0	1.0	
2.0			4			2.0	
3.0						3.0	
4.0				(ML) Brown; Silty Clay Sand with Low Plasticity; Dry and No Odor	0	4.0	
5.0						5.0	
6.0						6.0	
7.0			3.5			7.0	
8.0						8.0	
9.0				(SM) Brown; Silt and Fine Sand; Dry and No Odor	0	9.0	
10.0						10.0	



P.W. Grosser Consulting	**End of Boring Depth (feet):** 20	**Water Table Symbol:** ▼	Page 1 of 1

PROJECT #:	TOT2101
SITE ADDRESS:	737 4th Avenue, Brooklyn
BORING ID:	SB005
WELL ID:	N/A
DRILLING CONTRACTOR:	Associated Environmental Services
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 7822DT
SAMPLING METHOD:	Dual Tube

BORING DEPTH (FT): 10	CORE LENGTH (FT): 5
BORING DIAMETER (IN): 2	WELL DIAMETER (IN): N/A
DATE STARTED: 03/01/2022	DATE FINISHED: 03/01/2022
TIME STARTED: 16:40	TIME FINISHED: 15:00
LATITUDE: N/A	LONGITUDE: N/A
PROJECT MANAGER: Jennifer Lewis	LOGGED BY: Michael Pecoraro

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0.0–5.0			3	(FILL) Black and Brown; Concrete Slab and Asphalt, Historic Fill; Dry and No Odor	0	0.0–5.0	
5.0–10.0			3	(SM) Brown; Silt and Fine Sand; Dry and No Odor	0	5.0–10.0	
10.0–15.0			4	(ML) Brown; Silty Clay Sand; Dry and No Odor	0	10.0–15.0	
15.0–20.0			4	(SM) Brown; Silt and Fine Sand; Dry and No Odor	0	15.0–20.0	

PROJECT #:	TOT2101
SITE ADDRESS:	737 4th Avenue, Brooklyn
BORING ID:	SB006
WELL ID:	N/A
DRILLING CONTRACTOR:	Associated Environmental Services
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 7822DT
SAMPLING METHOD:	Dual Tube

BORING DEPTH (FT): 7	CORE LENGTH (FT): 5
BORING DIAMETER (IN): 2	WELL DIAMETER (IN): N/A
DATE STARTED: 03/01/2022	DATE FINISHED: 03/01/2022
TIME STARTED: 11:00	TIME FINISHED: 12:30
LATITUDE: N/A	LONGITUDE: N/A
PROJECT MANAGER: Jennifer Lewis	LOGGED BY: Michael Pecoraro

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)
0.0 – 3.0			3	(FILL) White; Concrete Aggregate; Dry and No Odor	0
3.0 – 6.0			3	(SM) Brown; Silt and Fine Sand; Dry and No Odor	1

DEPTH (feet): 0.0, 1.0, 2.0, 3.0, 4.0, 5.0, 6.0

WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS

PROJECT #:	TOT2101
SITE ADDRESS:	737 4th Avenue, Brooklyn
BORING ID:	SB007
WELL ID:	N/A
DRILLING CONTRACTOR:	Associated Environmental Services
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 7822DT
SAMPLING METHOD:	Dual Tube

BORING DEPTH (FT): 20	CORE LENGTH (FT): 5
BORING DIAMETER (IN): 2	WELL DIAMETER (IN): N/A
DATE STARTED: 03/01/2022	DATE FINISHED: 03/01/2022
TIME STARTED: 13:25	TIME FINISHED: 13:45
LATITUDE: N/A	LONGITUDE: N/A
PROJECT MANAGER: Jennifer Lewis	LOGGED BY: Michael Pecoraro

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0.0–2.0			3	(FILL) Black; Historic Filll; Dry and No Odor	0.8		
2.0–5.0				(ML) Brown; Silty Clay Sand with Low Plasticity; Dry and No Odor	0.5		
5.0–9.0			4	(SM) Brown; Silt and Fine Sand; Dry	72.3		
9.0–16.0			4	(SM) Brown; Silt and Fine Sand; Dry	130.3		
16.0–20.0			4	(SM) Light Brown; Silt and Fine Sand; Dry	49.3		

PROJECT #:	TOT2101
SITE ADDRESS:	737 4th Avenue, Brooklyn
BORING ID:	SB008
WELL ID:	N/A
DRILLING CONTRACTOR:	Associated Environmental Services
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 7822DT
SAMPLING METHOD:	Dual Tube

PWGC

BORING DEPTH (FT): 14	CORE LENGTH (FT): 5
BORING DIAMETER (IN): 2	WELL DIAMETER (IN): N/A
DATE STARTED: 03/01/2022	DATE FINISHED: 03/01/2022
TIME STARTED: 14:25	TIME FINISHED: 14:42
LATITUDE: N/A	LONGITUDE: N/A
PROJECT MANAGER: Jennifer Lewis	LOGGED BY: Michael Pecoraro

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0.0 – 2.0			3	(Asphalt) Black; Dry and No Odor	2.7	0.0 – 2.0	
2.0 – 5.0			3	(SM) Brown; Fine Silty Sand; Dry	2.4	2.0 – 5.0	
5.0 – 8.0			3			5.0 – 8.0	
8.0 – 10.0						8.0 – 10.0	
10.0 – 12.0			3			10.0 – 12.0	
12.0 – 14.0						12.0 – 14.0	

P.W. Grosser Consulting	**End of Boring Depth (feet):** 14	**Water Table Symbol:** ▼	Page 1 of 1

PROJECT #:	TOT2101
SITE ADDRESS:	737 4th Avenue, Brooklyn
BORING ID:	SB009
WELL ID:	N/A
DRILLING CONTRACTOR:	Associated Environmental Services
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 7822DT
SAMPLING METHOD:	Dual Tube

PWGC

BORING DEPTH (FT): 11	CORE LENGTH (FT): 5
BORING DIAMETER (IN): 2	WELL DIAMETER (IN): N/A
DATE STARTED: 03/01/2022	DATE FINISHED: 03/01/2022
TIME STARTED: 15:00	TIME FINISHED: 15:20
LATITUDE: N/A	LONGITUDE: N/A
PROJECT MANAGER: Jennifer Lewis	LOGGED BY: Michael Pecoraro

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0.0				(FILL) Black and Brown; Concrete Slab, Asphalt Gravel; Dry and No Odor	0.5	0.0	
1.0						1.0	
2.0			3	(FILL) Brown with Red and Grey; Concrete, Asphalt, Gravels and Soils; Dry	56.5	2.0	
3.0						3.0	
4.0						4.0	
5.0						5.0	
6.0						6.0	
7.0						7.0	
8.0			4	(SM) Brown and Grey; Silty Sand with few pieces of Gravel; Dry	6.6	8.0	
9.0						9.0	
10.0						10.0	
11.0						11.0	

PROJECT #:	TOT2101		
SITE ADDRESS:	737 4th Avenue, Brooklyn		
BORING ID:	SB010	BORING DEPTH (FT): 10	CORE LENGTH (FT): 5
WELL ID:	N/A	BORING DIAMETER (IN): 2	WELL DIAMETER (IN): N/A
DRILLING CONTRACTOR:	Associated Environmental Services	DATE STARTED: 03/01/2022	DATE FINISHED: 03/01/2022
DRILLING METHOD:	Direct Push	TIME STARTED: 11:20	TIME FINISHED: 11:30
DRILLING EQUIPMENT:	Geoprobe 7822DT	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Dual Tube	PROJECT MANAGER: Jennifer Lewis	LOGGED BY: Michael Pecoraro

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0.0						0.0	
				(FILL) Black; Asphalt; Dry and No Odor	2.4		
1.0						1.0	
2.0			3			2.0	
3.0						3.0	
4.0				(FILL) Brown and Grey; Historic Fill; Dry	1.9	4.0	
5.0						5.0	
6.0			1			6.0	
7.0						7.0	
8.0						8.0	
9.0				(SM) Brown; Fine Silty Sand; Dry	1.3	9.0	
10.0						10.0	

P.W. Grosser Consulting | **End of Boring Depth (feet):** 10 | **Water Table Symbol:** ▼ |

PROJECT #:	TOT2101		
SITE ADDRESS:	737 4th Avenue, Brooklyn		
BORING ID:	SB011	BORING DEPTH (FT): 20	CORE LENGTH (FT): 5
WELL ID:	N/A	BORING DIAMETER (IN): 2	WELL DIAMETER (IN): N/A
DRILLING CONTRACTOR:	Associated Environmental Services	DATE STARTED: 03/01/2022	DATE FINISHED: 03/01/2022
DRILLING METHOD:	Direct Push	TIME STARTED: 09:40	TIME FINISHED: 10:40
DRILLING EQUIPMENT:	Geoprobe 7822DT	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Dual Tube	PROJECT MANAGER: Jennifer Lewis	LOGGED BY: Michael Pecoraro

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0.0				(FILL) Black; Asphalt; Dry and No Odor	0.4	0.0	
1.0						1.0	
2.0			2			2.0	
3.0						3.0	
4.0						4.0	
5.0				(FILL) Brown and Grey; Historic Fill; Dry	11.5	5.0	
6.0						6.0	
7.0			3			7.0	
8.0						8.0	
9.0						9.0	
10.0				(ML) Brown; Silty Clay Sand with Low Plasticity; Dry	23.3	10.0	
11.0						11.0	
12.0			3			12.0	
13.0						13.0	
14.0						14.0	
15.0						15.0	
16.0						16.0	
17.0			4	(SM) Brown; Fine Silty Sand; Dry	149.5	17.0	
18.0						18.0	
19.0						19.0	
20.0						20.0	

P.W. Grosser Consulting	**End of Boring Depth (feet):** 20	**Water Table Symbol:** ▼	Page 1 of 1

APPENDIX C

LABORATORY ANALYTICAL REPORTS

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LONG ISLAND • MANHATTAN • SARATOGA SPRINGS • SYRACUSE • SEATTLE • SHELTON

ANALYTICAL REPORT

Lab Number:	L2210848
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Jennifer Lewis
Phone:	(631) 589-6353
Project Name:	TOT2101
Project Number:	TOT2101
Report Date:	03/28/22

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

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

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2210848-01	SB010 0-2	SOIL	737 4TH AVE., BROOKLYN	03/01/22 12:20	03/02/22
L2210848-02	SB008 12-14	SOIL	737 4TH AVE., BROOKLYN	03/01/22 15:10	03/02/22
L2210848-03	SB006 4-6	SOIL	737 4TH AVE., BROOKLYN	03/01/22 13:25	03/02/22
L2210848-04	SB006 3-4	SOIL	737 4TH AVE., BROOKLYN	03/01/22 13:15	03/02/22
L2210848-05	SB007 3-5	SOIL	737 4TH AVE., BROOKLYN	03/01/22 13:55	03/02/22
L2210848-06	SB007 7-9	SOIL	737 4TH AVE., BROOKLYN	03/01/22 14:00	03/02/22
L2210848-07	SB007 18-20	SOIL	737 4TH AVE., BROOKLYN	03/01/22 14:05	03/02/22
L2210848-08	DUP001	SOIL	737 4TH AVE., BROOKLYN	03/01/22 00:00	03/02/22
L2210848-09	SB008 0-2	SOIL	737 4TH AVE., BROOKLYN	03/01/22 15:10	03/02/22
L2210848-10	SB008 6-8	SOIL	737 4TH AVE., BROOKLYN	03/01/22 15:05	03/02/22
L2210848-11	DUP002	SOIL	737 4TH AVE., BROOKLYN	03/01/22 00:00	03/02/22
L2210848-12	SB008 2-4	SOIL	737 4TH AVE., BROOKLYN	03/01/22 15:15	03/02/22
L2210848-13	SB005 0-2	SOIL	737 4TH AVE., BROOKLYN	03/01/22 17:20	03/02/22
L2210848-14	SB001 0-2	SOIL	737 4TH AVE., BROOKLYN	03/01/22 16:05	03/02/22
L2210848-15	SB001 4-6	SOIL	737 4TH AVE., BROOKLYN	03/01/22 16:10	03/02/22
L2210848-16	SB005 8-10	SOIL	737 4TH AVE., BROOKLYN	03/01/22 17:25	03/02/22
L2210848-17	SB002 6-8	SOIL	737 4TH AVE., BROOKLYN	03/01/22 15:45	03/02/22
L2210848-18	SB004 2-4	SOIL	737 4TH AVE., BROOKLYN	03/01/22 17:05	03/02/22
L2210848-19	SB002 18-20	SOIL	737 4TH AVE., BROOKLYN	03/01/22 16:05	03/02/22
L2210848-20	SB003 15-17	SOIL	737 4TH AVE., BROOKLYN	03/01/22 12:30	03/02/22
L2210848-21	SB011 0-2	SOIL	737 4TH AVE., BROOKLYN	03/01/22 10:40	03/02/22
L2210848-22	SB003 3-5	SOIL	737 4TH AVE., BROOKLYN	03/01/22 11:05	03/02/22
L2210848-23	SB011 18-20	SOIL	737 4TH AVE., BROOKLYN	03/01/22 10:55	03/02/22
L2210848-24	SB011 6-8	SOIL	737 4TH AVE., BROOKLYN	03/01/22 10:45	03/02/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2210848-25	SB010 4-6	SOIL	737 4TH AVE., BROOKLYN	03/01/22 12:05	03/02/22
L2210848-26	SB010 8-10	SOIL	737 4TH AVE., BROOKLYN	03/01/22 12:10	03/02/22
L2210848-27	SB003 9-11	SOIL	737 4TH AVE., BROOKLYN	03/01/22 12:15	03/02/22
L2210848-28	SB003 20-22	SOIL	737 4TH AVE., BROOKLYN	03/01/22 12:40	03/02/22
L2210848-29	SB005 12-14	SOIL	737 4TH AVE., BROOKLYN	03/01/22 17:30	03/02/22
L2210848-30	SB002 2-4	SOIL	737 4TH AVE., BROOKLYN	03/01/22 15:25	03/02/22
L2210848-31	SB009 9-11	SOIL	737 4TH AVE., BROOKLYN	03/01/22 16:40	03/02/22
L2210848-32	SB009 3-5	SOIL	737 4TH AVE., BROOKLYN	03/01/22 16:30	03/02/22
L2210848-33	SB005 15-17	SOIL	737 4TH AVE., BROOKLYN	03/01/22 17:35	03/02/22
L2210848-34	SB009 5-7	SOIL	737 4TH AVE., BROOKLYN	03/01/22 16:35	03/02/22
L2210848-35	SB004 6-8	SOIL	737 4TH AVE., BROOKLYN	03/01/22 17:00	03/02/22
L2210848-36	TRIP BLANK	WATER	737 4TH AVE., BROOKLYN	03/01/22 00:00	03/02/22
L2210848-37	EQUIPMENT BLANK	WATER	737 4TH AVE., BROOKLYN	03/01/22 18:10	03/02/22
L2210848-38	FIELD BLANK	WATER	737 4TH AVE., BROOKLYN	03/01/22 18:20	03/02/22

Project Name:	TOT2101	**Lab Number:**	L2210848
Project Number:	TOT2101	**Report Date:**	03/28/22

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: TOT2101 **Lab Number:** L2210848
Project Number: TOT2101 **Report Date:** 03/28/22

Case Narrative (continued)

Report Submission
March 28, 2022: This final report includes the results of all requested analyses.
March 23, 2022: This is a preliminary report.
March 22, 2022: This is a preliminary report.

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

Sample Receipt
L2210848-33, -34, and -35: Samples identified as "SB005 15-17", "SB009 5-7", and "SB004 6-8" for TCL Volatile Organics, TCL Semivolatile Organics, Pesticides, PCBs, TAL Metals, Hexavalent Chromium, Total Cyanide, and Herbicide analyses were listed on the Chain of Custody, but not received. This was verified by the client.
L2210848-37: A sample container for 1,4-Dioxane analysis was received for the "EQUIPMENT BLANK" sample, but was not listed on the chain of custody. At the client's request, the analysis was performed.

Volatile Organics
L2210848-23D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.
L2210848-23D: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (143%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.
L2210848-31: The sample was analyzed as a High Level Methanol in order to quantitate results within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported.

Semivolatile Organics

Project Name:	TOT2101	**Lab Number:**	L2210848
Project Number:	TOT2101	**Report Date:**	03/28/22

Case Narrative (continued)

L2210848-01: The sample was extracted with the method required holding time exceeded.
L2210848-11: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (12%) and 2,4,6-tribromophenol (7%); however, the criteria were achieved upon re-extraction outside of holding time. The results of both extractions are reported; however, all associated compounds are considered to have a potential bias.
L2210848-13: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (5%) and 2,4,6-tribromophenol (4%); however, the criteria were achieved upon re-extraction outside of holding time. The results of both extractions are reported; however, all associated compounds are considered to have a potential bias.
L2210848-14: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (3%) and 2,4,6-tribromophenol (2%); however, re-extraction outside of holding time achieved similar results: 2-fluorophenol (0%) phenol-d6 (4%) and 2,4,6-tribromophenol (2%). The results of both extractions are reported; however, all associated compounds are considered to have a potential bias.
L2210848-15: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (18%) and 2,4,6-tribromophenol (3%); however, the criteria were achieved upon re-extraction outside of holding time. The results of both extractions are reported; however, all associated compounds are considered to have a potential bias.
L2210848-21D: The sample has elevated detection limits due to the dilution required by the sample matrix.
The WG1614960-6/-7 MS/MSD recoveries, performed on L2210848-09, are below the acceptance criteria for hexachlorocyclopentadiene (31%/16%), benzoic acid (0%/0%), and 1,4-dioxane (MSD at 36%) due to the concentration of this compound in the MS/MSD falling below the reported detection limit.
The WG1617383-4/-5 MS/MSD recoveries, performed on L2210848-01, is below the acceptance criteria for 4,6-dinitro-o-cresol (MSD at 0%) and benzoic acid (0%/0%) due to the concentrations of these compounds in the MS/MSD falling below the reported detection limit.

Perfluorinated Alkyl Acids by Isotope Dilution
L2210848-01 through -08, -17, -20, -21, -24, -26, -28, and -31: The MeOH fraction of the extraction is

Project Name: TOT2101 **Lab Number:** L2210848
Project Number: TOT2101 **Report Date:** 03/28/22

Case Narrative (continued)

reported for perfluorooctanesulfonamide (fosa) due to better extraction efficiency of the perfluoro[13c8]octanesulfonamide (m8fosa) Extracted Internal Standard.
L2210848-01 through -05, -07, -08, -13, -17, -17RE, -19, -20, -22, -27, and -28: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.
L2210848-17: The Extracted Internal Standard recoveries are less than 10% for n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (7%); however, re-extraction with the method required holding time exceeded confirmed the original results. The results of both extractions are reported for the associated target compounds.
L2210848-17RE: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.
WG1611670-1, WG1611670-2, WG1613390-1, WG1613825-1, and WG1613825-2: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.
The WG1617672-2 LCS recovery, associated with L2210848-17RE and -17, is below the acceptance criteria for perfluorooctadecanoic acid (pfoda) (2%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Pesticides
L2210848-21D: The sample has elevated detection limits due to the dilution required by the sample matrix.
L2210848-22: The internal standard (IS) response for 1-bromo-2-nitrobenzene (215%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. Since the IS response was above method criteria, all associated compounds reported from this column are considered to have a potentially low bias.
L2210848-24: The internal standard (IS) response for 1-bromo-2-nitrobenzene (322%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. Since the IS response was above method criteria, all associated compounds reported from this column are

Case Narrative (continued)

considered to have a potentially low bias. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (13%) and decachlorobiphenyl (19%) due to interference with the Internal Standard.
L2210848-27: The internal standard (IS) response for 1-bromo-2-nitrobenzene (208%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. Since the IS response was above method criteria, all associated compounds reported from this column are considered to have a potentially low bias.
L2210848-31: The internal standard (IS) response for 1-bromo-2-nitrobenzene (219%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. Since the IS response was above method criteria, all associated compounds reported from this column are considered to have a potentially low bias. The surrogate recovery is outside the method acceptance criteria for decachlorobiphenyl (28%) due to interference with the Internal Standard.

Total Metals
L2210848-01 through -32: 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.
The WG1614260-3/-4 MS/MSD recoveries for aluminum (791%/660%), calcium (0%/0%), iron (1750%/1790%), magnesium (0%/0%) and manganese (54%/9%), performed on L2210848-01, do not apply because the sample concentrations are greater than four times the spike amounts added.
The WG1614260-3/-4 MS/MSD recoveries, performed on L2210848-01, are outside the acceptance criteria for lead (73%/55%), thallium (71%/66%), and zinc (MSD at 316%). A post digestion spike was performed and yielded unacceptable recoveries for lead (71%), thallium (75%), and zinc (69%). The serial dilution recovery was not applicable; therefore, this element fails the matrix test and the result reported in the native sample should be considered estimated.
The WG1614260-3/-4 MS/MSD recoveries, performed on L2210848-01, are outside the acceptance criteria for antimony (49%/53%). A post digestion spike was performed and was within acceptance criteria.
The WG1614260-3/-4 MS/MSD RPDs for calcium (28%), magnesium (22%) and zinc (69%), performed on

Project Name:	TOT2101	**Lab Number:**	L2210848
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Case Narrative (continued)

L2210848-01, are above the acceptance criteria.

The WG1614260-7/-8 MS/MSD recoveries, performed on L2210848-09, are outside the acceptance criteria for antimony (53%/55%). A post digestion spike was performed and was within acceptance criteria.

The WG1614260-7 MS recoveries, performed on L2210848-09, are outside the acceptance criteria for manganese (28%) and zinc (64%). A post digestion spike was performed and yielded unacceptable recoveries for manganese(61%) and zinc (74%). The serial dilution recovery was not applicable; therefore, this element fails the matrix test and the result reported in the native sample should be considered estimated.

The WG1614260-7/-8 MS/MSD recoveries for aluminum (277%/386%), calcium (1000%/234%), iron (0%/1410%) and magnesium (MS at 574%), performed on L2210848-09, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1614260-7/-8 MS/MSD RPDs for calcium (41%) and magnesium (50%), performed on L2210848-09, are above the acceptance criteria.

The WG1614262-3 MS recoveries for aluminum (0%), calcium (1510%), iron (0%) and manganese (0%), performed on L2210848-21, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1614262-3 MS recovery, performed on L2210848-21, is outside the acceptance criteria for antimony (35%), barium (67%), magnesium (621%) and vanadium (71%). A post digestion spike was performed and was within acceptance criteria.

The WG1614262-3 MS recoveries, performed on L2210848-21, are outside the acceptance criteria for cobalt (72%), lead (44%) and thallium (66%). A post digestion spike was performed and yielded unacceptable recoveries for cobalt (77%), lead (77%) and thallium (77%). The serial dilution recovery was not applicable; therefore, this element fails the matrix test and the result reported in the native sample should be considered estimated.

The WG1614261-4 MSD recovery, performed on L2210848-01, is outside the acceptance criteria for mercury (70%). A post digestion spike was performed and was within acceptance criteria. The WG1614261-3/-4 MS/MSD RPD (23%) is above the acceptance criteria.

The WG1614261-5/-6 MS/MSD recoveries, performed on L2210848-09, are outside the acceptance criteria

Project Name:	TOT2101	**Lab Number:**	L2210848
Project Number:	TOT2101	**Report Date:**	03/28/22

Case Narrative (continued)

for mercury (123%/129%). A post digestion spike was performed and was within acceptance criteria.
The WG1614262-4 Laboratory Duplicate RPDs for aluminum (91%), barium (84%), calcium (117%), chromium (41%), cobalt (41%), copper (65%), iron (58%), lead (67%), magnesium (124%), manganese (58%), nickel (30%) and vanadium (44%), performed on L2210848-21, are outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.
The WG1614262-6 serial dilution analysis, associated with L2210848-21, had a %D above the acceptance criteria for aluminum (23%), barium (24%), calcium (25%), iron (27%), magnesium (26%) and manganese (25%).

Cyanide, Total
The WG1613528-2/-3 LCS/LCSD recoveries for cyanide, total (53%/60%), associated with L2210848-08 and -11, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.
The WG1614045-2/-3 LCS/LCSD recoveries for cyanide, total (68%/79%), associated with L2210848-05, -06, -07, -09, -10, and -12, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.
The WG1614159-3 LCSD recovery for cyanide, total (69%), associated with L2210848-20 through -28, and -30, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.
The WG1614163-3 LCSD recovery for cyanide, total (69%), associated with L2210848-13 through -19, -29, -31, and -32, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

Hexavalent Chromium
L2210848-37: The sample was analyzed with the method required holding time exceeded.

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: 03/28/22

ORGANICS

VOLATILES

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-01
Client ID: SB010 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:20
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 10:12
Analyst: NLK
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.5	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.90	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.90	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.90	0.11	1
Dibromochloromethane	ND		ug/kg	0.90	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.90	0.24	1
Tetrachloroethene	ND		ug/kg	0.45	0.18	1
Chlorobenzene	ND		ug/kg	0.45	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.6	0.63	1
1,2-Dichloroethane	ND		ug/kg	0.90	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.45	0.15	1
Bromodichloromethane	ND		ug/kg	0.45	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.90	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.45	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.45	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.45	0.14	1
Bromoform	ND		ug/kg	3.6	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.45	0.15	1
Benzene	ND		ug/kg	0.45	0.15	1
Toluene	ND		ug/kg	0.90	0.49	1
Ethylbenzene	ND		ug/kg	0.90	0.13	1
Chloromethane	ND		ug/kg	3.6	0.84	1
Bromomethane	ND		ug/kg	1.8	0.53	1
Vinyl chloride	ND		ug/kg	0.90	0.30	1
Chloroethane	ND		ug/kg	1.8	0.41	1
1,1-Dichloroethene	ND		ug/kg	0.90	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.12	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-01 Date Collected: 03/01/22 12:20

Client ID: SB010 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.45	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.51	1
o-Xylene	ND		ug/kg	0.90	0.26	1
Xylenes, Total	ND		ug/kg	0.90	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.90	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.90	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.22	1
Styrene	ND		ug/kg	0.90	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.0	0.83	1
Acetone	ND		ug/kg	9.0	4.4	1
Carbon disulfide	ND		ug/kg	9.0	4.1	1
2-Butanone	ND		ug/kg	9.0	2.0	1
Vinyl acetate	ND		ug/kg	9.0	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	9.0	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.12	1
2-Hexanone	ND		ug/kg	9.0	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.18	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.90	0.25	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.45	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.90	0.15	1
sec-Butylbenzene	ND		ug/kg	0.90	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.17	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.90	1
Hexachlorobutadiene	ND		ug/kg	3.6	0.15	1
Isopropylbenzene	ND		ug/kg	0.90	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.90	0.10	1
Naphthalene	ND		ug/kg	3.6	0.59	1
Acrylonitrile	ND		ug/kg	3.6	1.0	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-01 Date Collected: 03/01/22 12:20

Client ID: SB010 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.90	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.30	1
1,4-Dioxane	ND		ug/kg	72	32.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.35	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.17	1
Ethyl ether	ND		ug/kg	1.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.5	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	98		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-02
Client ID: SB008 12-14
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 10:36
Analyst: NLK
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.94	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.94	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.94	0.12	1
Dibromochloromethane	ND		ug/kg	0.94	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.94	0.25	1
Tetrachloroethene	ND		ug/kg	0.47	0.18	1
Chlorobenzene	ND		ug/kg	0.47	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.65	1
1,2-Dichloroethane	ND		ug/kg	0.94	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.47	0.16	1
Bromodichloromethane	ND		ug/kg	0.47	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.94	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.47	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.47	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.47	0.15	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.47	0.16	1
Benzene	ND		ug/kg	0.47	0.16	1
Toluene	ND		ug/kg	0.94	0.51	1
Ethylbenzene	ND		ug/kg	0.94	0.13	1
Chloromethane	ND		ug/kg	3.7	0.87	1
Bromomethane	ND		ug/kg	1.9	0.54	1
Vinyl chloride	ND		ug/kg	0.94	0.31	1
Chloroethane	ND		ug/kg	1.9	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.94	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-02 Date Collected: 03/01/22 15:10

Client ID: SB008 12-14 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.47	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.52	1
o-Xylene	ND		ug/kg	0.94	0.27	1
Xylenes, Total	ND		ug/kg	0.94	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.94	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.94	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.22	1
Styrene	ND		ug/kg	0.94	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.4	0.86	1
Acetone	ND		ug/kg	9.4	4.5	1
Carbon disulfide	ND		ug/kg	9.4	4.3	1
2-Butanone	ND		ug/kg	9.4	2.1	1
Vinyl acetate	ND		ug/kg	9.4	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.4	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.4	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.94	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.47	0.12	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.94	0.16	1
sec-Butylbenzene	ND		ug/kg	0.94	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.93	1
Hexachlorobutadiene	ND		ug/kg	3.7	0.16	1
Isopropylbenzene	ND		ug/kg	0.94	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.94	0.10	1
Naphthalene	ND		ug/kg	3.7	0.61	1
Acrylonitrile	ND		ug/kg	3.7	1.1	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-02 Date Collected: 03/01/22 15:10

Client ID: SB008 12-14 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.94	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.31	1
1,4-Dioxane	ND		ug/kg	75	33.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.16	1
p-Ethyltoluene	ND		ug/kg	1.9	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.7	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	100		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-03
Client ID: SB006 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 11:01
Analyst: NLK
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.19	1
Benzene	ND		ug/kg	0.56	0.19	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.2	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-03 Date Collected: 03/01/22 13:25

Client ID: SB006 4-6 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.63	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.73	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-03 Date Collected: 03/01/22 13:25

Client ID: SB006 4-6 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	90	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.43	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	99		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-04
Client ID: SB006 3-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 11:26
Analyst: NLK
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	0.24	J	ug/kg	0.50	0.16	1
Toluene	0.54	J	ug/kg	1.0	0.54	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-04 Date Collected: 03/01/22 13:15

Client ID: SB006 3-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.91	1
Acetone	ND		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.5	1
2-Butanone	ND		ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.65	1
Acrylonitrile	ND		ug/kg	4.0	1.1	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-04 Date Collected: 03/01/22 13:15

Client ID: SB006 3-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	80	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	100		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-05
Client ID: SB007 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:55
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 11:50
Analyst: NLK
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.7	3.5	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.22	1
Chloroform	ND		ug/kg	2.3	0.22	1
Carbon tetrachloride	ND		ug/kg	1.5	0.36	1
1,2-Dichloropropane	ND		ug/kg	1.5	0.19	1
Dibromochloromethane	ND		ug/kg	1.5	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.41	1
Tetrachloroethene	ND		ug/kg	0.77	0.30	1
Chlorobenzene	ND		ug/kg	0.77	0.20	1
Trichlorofluoromethane	ND		ug/kg	6.2	1.1	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.40	1
1,1,1-Trichloroethane	ND		ug/kg	0.77	0.26	1
Bromodichloromethane	ND		ug/kg	0.77	0.17	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.42	1
cis-1,3-Dichloropropene	ND		ug/kg	0.77	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	0.77	0.24	1
1,1-Dichloropropene	ND		ug/kg	0.77	0.25	1
Bromoform	ND		ug/kg	6.2	0.38	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.77	0.26	1
Benzene	ND		ug/kg	0.77	0.26	1
Toluene	ND		ug/kg	1.5	0.84	1
Ethylbenzene	ND		ug/kg	1.5	0.22	1
Chloromethane	ND		ug/kg	6.2	1.4	1
Bromomethane	ND		ug/kg	3.1	0.90	1
Vinyl chloride	ND		ug/kg	1.5	0.52	1
Chloroethane	ND		ug/kg	3.1	0.70	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.21	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-05 Date Collected: 03/01/22 13:55

Client ID: SB007 3-5 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.77	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	3.1	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	3.1	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	3.1	0.26	1
Methyl tert butyl ether	ND		ug/kg	3.1	0.31	1
p/m-Xylene	ND		ug/kg	3.1	0.87	1
o-Xylene	ND		ug/kg	1.5	0.45	1
Xylenes, Total	ND		ug/kg	1.5	0.45	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.27	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	0.21	1
Dibromomethane	ND		ug/kg	3.1	0.37	1
Styrene	ND		ug/kg	1.5	0.30	1
Dichlorodifluoromethane	ND		ug/kg	15	1.4	1
Acetone	ND		ug/kg	15	7.4	1
Carbon disulfide	ND		ug/kg	15	7.0	1
2-Butanone	ND		ug/kg	15	3.4	1
Vinyl acetate	ND		ug/kg	15	3.3	1
4-Methyl-2-pentanone	ND		ug/kg	15	2.0	1
1,2,3-Trichloropropane	ND		ug/kg	3.1	0.20	1
2-Hexanone	ND		ug/kg	15	1.8	1
Bromochloromethane	ND		ug/kg	3.1	0.32	1
2,2-Dichloropropane	ND		ug/kg	3.1	0.31	1
1,2-Dibromoethane	ND		ug/kg	1.5	0.43	1
1,3-Dichloropropane	ND		ug/kg	3.1	0.26	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.77	0.20	1
Bromobenzene	ND		ug/kg	3.1	0.22	1
n-Butylbenzene	ND		ug/kg	1.5	0.26	1
sec-Butylbenzene	ND		ug/kg	1.5	0.23	1
tert-Butylbenzene	ND		ug/kg	3.1	0.18	1
o-Chlorotoluene	ND		ug/kg	3.1	0.30	1
p-Chlorotoluene	ND		ug/kg	3.1	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.6	1.5	1
Hexachlorobutadiene	ND		ug/kg	6.2	0.26	1
Isopropylbenzene	ND		ug/kg	1.5	0.17	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.17	1
Naphthalene	ND		ug/kg	6.2	1.0	1
Acrylonitrile	ND		ug/kg	6.2	1.8	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-05 Date Collected: 03/01/22 13:55

Client ID: SB007 3-5 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.5	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.1	0.50	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.1	0.42	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	0.30	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	0.52	1
1,4-Dioxane	ND		ug/kg	120	54.	1
p-Diethylbenzene	ND		ug/kg	3.1	0.27	1
p-Ethyltoluene	ND		ug/kg	3.1	0.59	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.1	0.30	1
Ethyl ether	ND		ug/kg	3.1	0.53	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.7	2.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-06
Client ID: SB007 7-9
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 14:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/11/22 17:01
Analyst: AJK
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	320	140	1
1,1-Dichloroethane	ND		ug/kg	64	9.2	1
Chloroform	ND		ug/kg	96	8.9	1
Carbon tetrachloride	ND		ug/kg	64	15.	1
1,2-Dichloropropane	ND		ug/kg	64	8.0	1
Dibromochloromethane	ND		ug/kg	64	8.9	1
1,1,2-Trichloroethane	ND		ug/kg	64	17.	1
Tetrachloroethene	ND		ug/kg	32	12.	1
Chlorobenzene	ND		ug/kg	32	8.1	1
Trichlorofluoromethane	ND		ug/kg	250	44.	1
1,2-Dichloroethane	ND		ug/kg	64	16.	1
1,1,1-Trichloroethane	ND		ug/kg	32	11.	1
Bromodichloromethane	ND		ug/kg	32	6.9	1
trans-1,3-Dichloropropene	ND		ug/kg	64	17.	1
cis-1,3-Dichloropropene	ND		ug/kg	32	10.	1
1,3-Dichloropropene, Total	ND		ug/kg	32	10.	1
1,1-Dichloropropene	ND		ug/kg	32	10.	1
Bromoform	ND		ug/kg	250	16.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	32	10.	1
Benzene	ND		ug/kg	32	10.	1
Toluene	65		ug/kg	64	34.	1
Ethylbenzene	680		ug/kg	64	9.0	1
Chloromethane	ND		ug/kg	250	59.	1
Bromomethane	ND		ug/kg	130	37.	1
Vinyl chloride	ND		ug/kg	64	21.	1
Chloroethane	ND		ug/kg	130	29.	1
1,1-Dichloroethene	ND		ug/kg	64	15.	1
trans-1,2-Dichloroethene	ND		ug/kg	96	8.7	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-06 Date Collected: 03/01/22 14:00

Client ID: SB007 7-9 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	32	8.7	1
1,2-Dichlorobenzene	ND		ug/kg	130	9.2	1
1,3-Dichlorobenzene	ND		ug/kg	130	9.4	1
1,4-Dichlorobenzene	ND		ug/kg	130	11.	1
Methyl tert butyl ether	ND		ug/kg	130	13.	1
p/m-Xylene	1900		ug/kg	130	36.	1
o-Xylene	680		ug/kg	64	18.	1
Xylenes, Total	2600		ug/kg	64	18.	1
cis-1,2-Dichloroethene	ND		ug/kg	64	11.	1
1,2-Dichloroethene, Total	ND		ug/kg	64	8.7	1
Dibromomethane	ND		ug/kg	130	15.	1
Styrene	ND		ug/kg	64	12.	1
Dichlorodifluoromethane	ND		ug/kg	640	58.	1
Acetone	ND		ug/kg	640	310	1
Carbon disulfide	ND		ug/kg	640	290	1
2-Butanone	ND		ug/kg	640	140	1
Vinyl acetate	ND		ug/kg	640	140	1
4-Methyl-2-pentanone	ND		ug/kg	640	82.	1
1,2,3-Trichloropropane	ND		ug/kg	130	8.1	1
2-Hexanone	ND		ug/kg	640	75.	1
Bromochloromethane	ND		ug/kg	130	13.	1
2,2-Dichloropropane	ND		ug/kg	130	13.	1
1,2-Dibromoethane	ND		ug/kg	64	18.	1
1,3-Dichloropropane	ND		ug/kg	130	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	32	8.4	1
Bromobenzene	ND		ug/kg	130	9.2	1
n-Butylbenzene	2300		ug/kg	64	11.	1
sec-Butylbenzene	1900		ug/kg	64	9.3	1
tert-Butylbenzene	220		ug/kg	130	7.5	1
o-Chlorotoluene	ND		ug/kg	130	12.	1
p-Chlorotoluene	ND		ug/kg	130	6.9	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	190	64.	1
Hexachlorobutadiene	ND		ug/kg	250	11.	1
Isopropylbenzene	610		ug/kg	64	6.9	1
p-Isopropyltoluene	1900		ug/kg	64	6.9	1
Naphthalene	15000		ug/kg	250	41.	1
Acrylonitrile	ND		ug/kg	250	73.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-06 Date Collected: 03/01/22 14:00

Client ID: SB007 7-9 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	1400		ug/kg	64	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	130	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	17.	1
1,3,5-Trimethylbenzene	5500		ug/kg	130	12.	1
1,2,4-Trimethylbenzene	13000		ug/kg	130	21.	1
1,4-Dioxane	ND		ug/kg	5100	2200	1
p-Diethylbenzene	1700		ug/kg	130	11.	1
p-Ethyltoluene	7500		ug/kg	130	24.	1
1,2,4,5-Tetramethylbenzene	8200		ug/kg	130	12.	1
Ethyl ether	ND		ug/kg	130	22.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	320	90.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	125		70-130
Dibromofluoromethane	91		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-07
Client ID: SB007 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 14:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 12:40
Analyst: NLK
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.98	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.98	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.98	0.12	1
Dibromochloromethane	ND		ug/kg	0.98	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.98	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.16	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	0.51		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.98	0.53	1
Ethylbenzene	1.1		ug/kg	0.98	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	2.0	0.57	1
Vinyl chloride	ND		ug/kg	0.98	0.33	1
Chloroethane	ND		ug/kg	2.0	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.98	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-07 Date Collected: 03/01/22 14:05

Client ID: SB007 18-20 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	0.20	J	ug/kg	2.0	0.20	1
p/m-Xylene	6.1		ug/kg	2.0	0.55	1
o-Xylene	0.92	J	ug/kg	0.98	0.28	1
Xylenes, Total	7.0	J	ug/kg	0.98	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.98	0.13	1
Dibromomethane	ND		ug/kg	2.0	0.23	1
Styrene	ND		ug/kg	0.98	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.90	1
Acetone	7.8	J	ug/kg	9.8	4.7	1
Carbon disulfide	ND		ug/kg	9.8	4.5	1
2-Butanone	ND		ug/kg	9.8	2.2	1
Vinyl acetate	ND		ug/kg	9.8	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.12	1
2-Hexanone	ND		ug/kg	9.8	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.98	0.27	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	0.31	J	ug/kg	0.98	0.16	1
sec-Butylbenzene	0.75	J	ug/kg	0.98	0.14	1
tert-Butylbenzene	0.12	J	ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.98	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	0.46	J	ug/kg	0.98	0.11	1
p-Isopropyltoluene	0.58	J	ug/kg	0.98	0.11	1
Naphthalene	14		ug/kg	3.9	0.64	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-07 Date Collected: 03/01/22 14:05

Client ID: SB007 18-20 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	0.46	J	ug/kg	0.98	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	3.3		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	11		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	78	34.	1
p-Diethylbenzene	0.40	J	ug/kg	2.0	0.17	1
p-Ethyltoluene	5.4		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	2.6		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	99		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-08 Date Collected: 03/01/22 00:00

Client ID: DUP001 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 03/10/22 13:04

Analyst: MKS

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.98	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.98	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.98	0.12	1
Dibromochloromethane	ND		ug/kg	0.98	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.98	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.16	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.98	0.53	1
Ethylbenzene	ND		ug/kg	0.98	0.14	1
Chloromethane	ND		ug/kg	3.9	0.92	1
Bromomethane	ND		ug/kg	2.0	0.57	1
Vinyl chloride	ND		ug/kg	0.98	0.33	1
Chloroethane	ND		ug/kg	2.0	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.98	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-08 Date Collected: 03/01/22 00:00

Client ID: DUP001 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.55	1
o-Xylene	ND		ug/kg	0.98	0.29	1
Xylenes, Total	ND		ug/kg	0.98	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.98	0.13	1
Dibromomethane	ND		ug/kg	2.0	0.23	1
Styrene	ND		ug/kg	0.98	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.90	1
Acetone	ND		ug/kg	9.8	4.7	1
Carbon disulfide	ND		ug/kg	9.8	4.5	1
2-Butanone	ND		ug/kg	9.8	2.2	1
Vinyl acetate	ND		ug/kg	9.8	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.12	1
2-Hexanone	ND		ug/kg	9.8	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.98	0.27	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	0.98	0.16	1
sec-Butylbenzene	ND		ug/kg	0.98	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.98	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.17	1
Isopropylbenzene	ND		ug/kg	0.98	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.98	0.11	1
Naphthalene	ND		ug/kg	3.9	0.64	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-08 Date Collected: 03/01/22 00:00

Client ID: DUP001 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.98	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	79	34.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.17	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	98		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-09
Client ID: SB008 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/14/22 13:47
Analyst: AJK
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.92	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.92	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.92	0.12	1
Dibromochloromethane	ND		ug/kg	0.92	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.92	0.25	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.46	0.15	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.92	0.50	1
Ethylbenzene	ND		ug/kg	0.92	0.13	1
Chloromethane	ND		ug/kg	3.7	0.86	1
Bromomethane	ND		ug/kg	1.8	0.54	1
Vinyl chloride	ND		ug/kg	0.92	0.31	1
Chloroethane	ND		ug/kg	1.8	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-09 Date Collected: 03/01/22 15:10

Client ID: SB008 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.46	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.52	1
o-Xylene	ND		ug/kg	0.92	0.27	1
Xylenes, Total	ND		ug/kg	0.92	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.92	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.92	0.13	1
Dibromomethane	ND		ug/kg	1.8	0.22	1
Styrene	ND		ug/kg	0.92	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.84	1
Acetone	ND		ug/kg	9.2	4.4	1
Carbon disulfide	ND		ug/kg	9.2	4.2	1
2-Butanone	ND		ug/kg	9.2	2.0	1
Vinyl acetate	ND		ug/kg	9.2	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.12	1
2-Hexanone	ND		ug/kg	9.2	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.92	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.92	0.15	1
sec-Butylbenzene	ND		ug/kg	0.92	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.18	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.92	1
Hexachlorobutadiene	ND		ug/kg	3.7	0.16	1
Isopropylbenzene	ND		ug/kg	0.92	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.92	0.10	1
Naphthalene	2.0	J	ug/kg	3.7	0.60	1
Acrylonitrile	ND		ug/kg	3.7	1.0	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-09 Date Collected: 03/01/22 15:10

Client ID: SB008 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.92	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.31	1
1,4-Dioxane	ND		ug/kg	74	32.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.35	1
1,2,4,5-Tetramethylbenzene	0.78	J	ug/kg	1.8	0.18	1
Ethyl ether	ND		ug/kg	1.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	113		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-10
Client ID: SB008 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 13:29
Analyst: MKS
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.98	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-10 Date Collected: 03/01/22 15:05

Client ID: SB008 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.2	0.68	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-10 Date Collected: 03/01/22 15:05

Client ID: SB008 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	84	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	99		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-11 Date Collected: 03/01/22 00:00

Client ID: DUP002 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 03/10/22 13:54

Analyst: MKS

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	0.99	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.99	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.99	0.12	1
Dibromochloromethane	ND		ug/kg	0.99	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.99	0.26	1
Tetrachloroethene	ND		ug/kg	0.50	0.19	1
Chlorobenzene	ND		ug/kg	0.50	0.12	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.16	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	ND		ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	0.99	0.54	1
Ethylbenzene	ND		ug/kg	0.99	0.14	1
Chloromethane	ND		ug/kg	4.0	0.92	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	0.99	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-11 Date Collected: 03/01/22 00:00

Client ID: DUP002 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	0.99	0.29	1
Xylenes, Total	ND		ug/kg	0.99	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	0.99	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.91	1
Acetone	5.4	J	ug/kg	9.9	4.8	1
Carbon disulfide	ND		ug/kg	9.9	4.5	1
2-Butanone	ND		ug/kg	9.9	2.2	1
Vinyl acetate	ND		ug/kg	9.9	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.12	1
2-Hexanone	ND		ug/kg	9.9	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.99	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	0.99	0.16	1
sec-Butylbenzene	ND		ug/kg	0.99	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	0.99	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.11	1
Naphthalene	ND		ug/kg	4.0	0.64	1
Acrylonitrile	ND		ug/kg	4.0	1.1	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-11 Date Collected: 03/01/22 00:00

Client ID: DUP002 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.99	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	79	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	99		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-12
Client ID: SB008 2-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 14:18
Analyst: MKS
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.79	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.57	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.3	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-12 Date Collected: 03/01/22 15:15

Client ID: SB008 2-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.5	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.57	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.13	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.74	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-12 Date Collected: 03/01/22 15:15

Client ID: SB008 2-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	91	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	102		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-13
Client ID: SB005 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:20
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 14:43
Analyst: MKS
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-13 Date Collected: 03/01/22 17:20

Client ID: SB005 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	ND		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.66	1
Acrylonitrile	ND		ug/kg	4.0	1.2	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-13 Date Collected: 03/01/22 17:20

Client ID: SB005 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	81	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-14
Client ID: SB001 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 15:08
Analyst: MKS
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	0.99	0.14	1
Chloroform	0.16	J	ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.99	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.99	0.12	1
Dibromochloromethane	ND		ug/kg	0.99	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.99	0.26	1
Tetrachloroethene	0.77		ug/kg	0.50	0.19	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	ND		ug/kg	0.50	0.16	1
Toluene	0.67	J	ug/kg	0.99	0.54	1
Ethylbenzene	0.57	J	ug/kg	0.99	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	0.99	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-14 Date Collected: 03/01/22 16:05

Client ID: SB001 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	0.99	0.29	1
Xylenes, Total	ND		ug/kg	0.99	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	0.20	J	ug/kg	0.99	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.91	1
Acetone	ND		ug/kg	9.9	4.8	1
Carbon disulfide	ND		ug/kg	9.9	4.5	1
2-Butanone	ND		ug/kg	9.9	2.2	1
Vinyl acetate	ND		ug/kg	9.9	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	9.9	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.99	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	0.99	0.17	1
sec-Butylbenzene	ND		ug/kg	0.99	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	0.99	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.11	1
Naphthalene	ND		ug/kg	4.0	0.65	1
Acrylonitrile	ND		ug/kg	4.0	1.1	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-14 Date Collected: 03/01/22 16:05

Client ID: SB001 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.99	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	80	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-15
Client ID: SB001 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 15:33
Analyst: MKS
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.97	0.14	1
Chloroform	0.46	J	ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.97	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.97	0.12	1
Dibromochloromethane	ND		ug/kg	0.97	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	0.26	1
Tetrachloroethene	1.6		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.16	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.97	0.53	1
Ethylbenzene	ND		ug/kg	0.97	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	1.9	0.57	1
Vinyl chloride	ND		ug/kg	0.97	0.33	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-15 Date Collected: 03/01/22 16:10

Client ID: SB001 4-6 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.50		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.20	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.97	0.28	1
Xylenes, Total	ND		ug/kg	0.97	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.97	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.89	1
Acetone	ND		ug/kg	9.7	4.7	1
Carbon disulfide	ND		ug/kg	9.7	4.4	1
2-Butanone	ND		ug/kg	9.7	2.2	1
Vinyl acetate	ND		ug/kg	9.7	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.7	1.2	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.97	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.97	0.16	1
sec-Butylbenzene	ND		ug/kg	0.97	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.12	1
o-Chlorotoluene	ND		ug/kg	1.9	0.19	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.97	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.97	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.11	1
Naphthalene	ND		ug/kg	3.9	0.63	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-15 Date Collected: 03/01/22 16:10

Client ID: SB001 4-6 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.97	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	78	34.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.19	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	102		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-16
Client ID: SB005 8-10
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 15:57
Analyst: MKS
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.94	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.94	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.94	0.12	1
Dibromochloromethane	ND		ug/kg	0.94	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.94	0.25	1
Tetrachloroethene	ND		ug/kg	0.47	0.18	1
Chlorobenzene	ND		ug/kg	0.47	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.66	1
1,2-Dichloroethane	ND		ug/kg	0.94	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.47	0.16	1
Bromodichloromethane	ND		ug/kg	0.47	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.94	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.47	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.47	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.47	0.15	1
Bromoform	ND		ug/kg	3.8	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.47	0.16	1
Benzene	ND		ug/kg	0.47	0.16	1
Toluene	ND		ug/kg	0.94	0.51	1
Ethylbenzene	ND		ug/kg	0.94	0.13	1
Chloromethane	ND		ug/kg	3.8	0.88	1
Bromomethane	ND		ug/kg	1.9	0.55	1
Vinyl chloride	ND		ug/kg	0.94	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.94	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-16 Date Collected: 03/01/22 17:25

Client ID: SB005 8-10 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.47	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.53	1
o-Xylene	ND		ug/kg	0.94	0.27	1
Xylenes, Total	ND		ug/kg	0.94	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.94	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.94	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.22	1
Styrene	ND		ug/kg	0.94	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.4	0.86	1
Acetone	ND		ug/kg	9.4	4.5	1
Carbon disulfide	ND		ug/kg	9.4	4.3	1
2-Butanone	ND		ug/kg	9.4	2.1	1
Vinyl acetate	ND		ug/kg	9.4	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.4	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.4	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.94	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.47	0.12	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.94	0.16	1
sec-Butylbenzene	ND		ug/kg	0.94	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.94	1
Hexachlorobutadiene	ND		ug/kg	3.8	0.16	1
Isopropylbenzene	ND		ug/kg	0.94	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.94	0.10	1
Naphthalene	ND		ug/kg	3.8	0.61	1
Acrylonitrile	ND		ug/kg	3.8	1.1	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-16 Date Collected: 03/01/22 17:25

Client ID: SB005 8-10 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.94	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	76	33.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.7	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	104		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-17
Client ID: SB002 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:45
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 16:22
Analyst: LAC
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.0	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.60	0.24	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.60	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	ND		ug/kg	0.60	0.20	1
Toluene	1.2		ug/kg	1.2	0.66	1
Ethylbenzene	0.82	J	ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.70	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-17 Date Collected: 03/01/22 15:45

Client ID: SB002 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	0.39	J	ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.60	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.8	0.79	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-17 Date Collected: 03/01/22 15:45

Client ID: SB002 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	97	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	101		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-18
Client ID: SB004 2-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 16:47
Analyst: KJD
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	0.99	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.99	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.99	0.12	1
Dibromochloromethane	ND		ug/kg	0.99	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.99	0.26	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	ND		ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	0.99	0.54	1
Ethylbenzene	ND		ug/kg	0.99	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	0.99	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-18 Date Collected: 03/01/22 17:05

Client ID: SB004 2-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	0.99	0.29	1
Xylenes, Total	ND		ug/kg	0.99	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	0.99	0.20	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.91	1
Acetone	ND		ug/kg	9.9	4.8	1
Carbon disulfide	ND		ug/kg	9.9	4.5	1
2-Butanone	ND		ug/kg	9.9	2.2	1
Vinyl acetate	ND		ug/kg	9.9	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	9.9	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.99	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	0.99	0.17	1
sec-Butylbenzene	ND		ug/kg	0.99	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	0.99	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.11	1
Naphthalene	ND		ug/kg	4.0	0.65	1
Acrylonitrile	ND		ug/kg	4.0	1.1	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-18 Date Collected: 03/01/22 17:05

Client ID: SB004 2-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.99	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	80	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	101		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-19
Client ID: SB002 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 17:11
Analyst: KJD
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.91	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.91	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.91	0.11	1
Dibromochloromethane	ND		ug/kg	0.91	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.91	0.24	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.6	0.63	1
1,2-Dichloroethane	ND		ug/kg	0.91	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.91	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.46	0.14	1
Bromoform	ND		ug/kg	3.6	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	1.8		ug/kg	0.91	0.50	1
Ethylbenzene	0.49	J	ug/kg	0.91	0.13	1
Chloromethane	ND		ug/kg	3.6	0.85	1
Bromomethane	ND		ug/kg	1.8	0.53	1
Vinyl chloride	ND		ug/kg	0.91	0.30	1
Chloroethane	ND		ug/kg	1.8	0.41	1
1,1-Dichloroethene	ND		ug/kg	0.91	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.12	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-19 Date Collected: 03/01/22 16:05

Client ID: SB002 18-20 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.46	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.51	1
o-Xylene	ND		ug/kg	0.91	0.26	1
Xylenes, Total	ND		ug/kg	0.91	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.91	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.91	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.22	1
Styrene	0.67	J	ug/kg	0.91	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.1	0.84	1
Acetone	ND		ug/kg	9.1	4.4	1
Carbon disulfide	ND		ug/kg	9.1	4.2	1
2-Butanone	ND		ug/kg	9.1	2.0	1
Vinyl acetate	ND		ug/kg	9.1	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.1	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.12	1
2-Hexanone	ND		ug/kg	9.1	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.91	0.25	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.91	0.15	1
sec-Butylbenzene	ND		ug/kg	0.91	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.17	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.91	1
Hexachlorobutadiene	ND		ug/kg	3.6	0.15	1
Isopropylbenzene	ND		ug/kg	0.91	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.91	0.10	1
Naphthalene	ND		ug/kg	3.6	0.59	1
Acrylonitrile	ND		ug/kg	3.6	1.0	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-19 Date Collected: 03/01/22 16:05

Client ID: SB002 18-20 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.91	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.30	1
1,4-Dioxane	ND		ug/kg	73	32.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.35	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.17	1
Ethyl ether	ND		ug/kg	1.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	101		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-20
Client ID: SB003 15-17
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 13:26
Analyst: MKS
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-20 Date Collected: 03/01/22 12:30

Client ID: SB003 15-17 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.22	1
p/m-Xylene	ND		ug/kg	2.1	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
Xylenes, Total	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.1	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.98	1
Acetone	ND		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.1	0.13	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	2.3	J	ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-20 Date Collected: 03/01/22 12:30

Client ID: SB003 15-17 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.36	1
1,4-Dioxane	ND		ug/kg	86	38.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.19	1
p-Ethyltoluene	ND		ug/kg	2.1	0.41	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	106		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-21
Client ID: SB011 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 13:53
Analyst: MKS
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.96	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.96	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.96	0.12	1
Dibromochloromethane	ND		ug/kg	0.96	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.96	0.26	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.67	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.96	0.52	1
Ethylbenzene	ND		ug/kg	0.96	0.14	1
Chloromethane	ND		ug/kg	3.8	0.90	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.96	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-21 Date Collected: 03/01/22 10:40

Client ID: SB011 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.96	0.28	1
Xylenes, Total	ND		ug/kg	0.96	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.96	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	0.60	J	ug/kg	0.96	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.88	1
Acetone	ND		ug/kg	9.6	4.6	1
Carbon disulfide	ND		ug/kg	9.6	4.4	1
2-Butanone	ND		ug/kg	9.6	2.1	1
Vinyl acetate	ND		ug/kg	9.6	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.6	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.96	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.96	0.16	1
sec-Butylbenzene	ND		ug/kg	0.96	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.96	1
Hexachlorobutadiene	ND		ug/kg	3.8	0.16	1
Isopropylbenzene	ND		ug/kg	0.96	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.96	0.10	1
Naphthalene	2.2	J	ug/kg	3.8	0.62	1
Acrylonitrile	ND		ug/kg	3.8	1.1	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-21 Date Collected: 03/01/22 10:40

Client ID: SB011 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.96	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	77	34.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	0.87	J	ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	110		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-22
Client ID: SB003 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 11:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/11/22 02:19
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.3	1
1,1-Dichloroethane	ND		ug/kg	0.99	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.99	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.99	0.12	1
Dibromochloromethane	ND		ug/kg	0.99	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.99	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.16	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.99	0.54	1
Ethylbenzene	ND		ug/kg	0.99	0.14	1
Chloromethane	ND		ug/kg	3.9	0.92	1
Bromomethane	ND		ug/kg	2.0	0.57	1
Vinyl chloride	ND		ug/kg	0.99	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-22 Date Collected: 03/01/22 11:05

Client ID: SB003 3-5 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.49	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.55	1
o-Xylene	ND		ug/kg	0.99	0.29	1
Xylenes, Total	ND		ug/kg	0.99	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.23	1
Styrene	ND		ug/kg	0.99	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.90	1
Acetone	51		ug/kg	9.9	4.7	1
Carbon disulfide	ND		ug/kg	9.9	4.5	1
2-Butanone	9.3	J	ug/kg	9.9	2.2	1
Vinyl acetate	ND		ug/kg	9.9	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.12	1
2-Hexanone	ND		ug/kg	9.9	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.99	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	0.99	0.16	1
sec-Butylbenzene	0.20	J	ug/kg	0.99	0.14	1
tert-Butylbenzene	0.12	J	ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.98	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.17	1
Isopropylbenzene	ND		ug/kg	0.99	0.11	1
p-Isopropyltoluene	0.22	J	ug/kg	0.99	0.11	1
Naphthalene	0.82	J	ug/kg	3.9	0.64	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-22 Date Collected: 03/01/22 11:05

Client ID: SB003 3-5 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.99	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	79	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.17	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	122		70-130
Dibromofluoromethane	118		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-23 D
Client ID: SB011 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:55
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/11/22 03:34
Analyst: JC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	2700	1200	10
1,1-Dichloroethane	ND		ug/kg	530	77.	10
Chloroform	ND		ug/kg	800	74.	10
Carbon tetrachloride	ND		ug/kg	530	120	10
1,2-Dichloropropane	ND		ug/kg	530	66.	10
Dibromochloromethane	ND		ug/kg	530	74.	10
1,1,2-Trichloroethane	ND		ug/kg	530	140	10
Tetrachloroethene	ND		ug/kg	270	100	10
Chlorobenzene	ND		ug/kg	270	68.	10
Trichlorofluoromethane	ND		ug/kg	2100	370	10
1,2-Dichloroethane	ND		ug/kg	530	140	10
1,1,1-Trichloroethane	ND		ug/kg	270	89.	10
Bromodichloromethane	ND		ug/kg	270	58.	10
trans-1,3-Dichloropropene	ND		ug/kg	530	140	10
cis-1,3-Dichloropropene	ND		ug/kg	270	84.	10
1,3-Dichloropropene, Total	ND		ug/kg	270	84.	10
1,1-Dichloropropene	ND		ug/kg	270	85.	10
Bromoform	ND		ug/kg	2100	130	10
1,1,2,2-Tetrachloroethane	ND		ug/kg	270	88.	10
Benzene	ND		ug/kg	270	88.	10
Toluene	ND		ug/kg	530	290	10
Ethylbenzene	ND		ug/kg	530	75.	10
Chloromethane	ND		ug/kg	2100	500	10
Bromomethane	ND		ug/kg	1100	310	10
Vinyl chloride	ND		ug/kg	530	180	10
Chloroethane	ND		ug/kg	1100	240	10
1,1-Dichloroethene	ND		ug/kg	530	130	10
trans-1,2-Dichloroethene	ND		ug/kg	800	73.	10

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-23 D
Client ID: SB011 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:55
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	270	73.	10
1,2-Dichlorobenzene	ND		ug/kg	1100	77.	10
1,3-Dichlorobenzene	ND		ug/kg	1100	79.	10
1,4-Dichlorobenzene	ND		ug/kg	1100	91.	10
Methyl tert butyl ether	ND		ug/kg	1100	110	10
p/m-Xylene	ND		ug/kg	1100	300	10
o-Xylene	ND		ug/kg	530	150	10
Xylenes, Total	ND		ug/kg	530	150	10
cis-1,2-Dichloroethene	ND		ug/kg	530	93.	10
1,2-Dichloroethene, Total	ND		ug/kg	530	73.	10
Dibromomethane	ND		ug/kg	1100	130	10
Styrene	ND		ug/kg	530	100	10
Dichlorodifluoromethane	ND		ug/kg	5300	490	10
Acetone	ND		ug/kg	5300	2600	10
Carbon disulfide	ND		ug/kg	5300	2400	10
2-Butanone	ND		ug/kg	5300	1200	10
Vinyl acetate	ND		ug/kg	5300	1100	10
4-Methyl-2-pentanone	ND		ug/kg	5300	680	10
1,2,3-Trichloropropane	ND		ug/kg	1100	68.	10
2-Hexanone	ND		ug/kg	5300	630	10
Bromochloromethane	ND		ug/kg	1100	110	10
2,2-Dichloropropane	ND		ug/kg	1100	110	10
1,2-Dibromoethane	ND		ug/kg	530	150	10
1,3-Dichloropropane	ND		ug/kg	1100	89.	10
1,1,1,2-Tetrachloroethane	ND		ug/kg	270	70.	10
Bromobenzene	ND		ug/kg	1100	77.	10
n-Butylbenzene	7000		ug/kg	530	89.	10
sec-Butylbenzene	6000		ug/kg	530	78.	10
tert-Butylbenzene	660	J	ug/kg	1100	63.	10
o-Chlorotoluene	ND		ug/kg	1100	100	10
p-Chlorotoluene	ND		ug/kg	1100	58.	10
1,2-Dibromo-3-chloropropane	ND		ug/kg	1600	530	10
Hexachlorobutadiene	ND		ug/kg	2100	90.	10
Isopropylbenzene	3400		ug/kg	530	58.	10
p-Isopropyltoluene	ND		ug/kg	530	58.	10
Naphthalene	890	J	ug/kg	2100	350	10
Acrylonitrile	ND		ug/kg	2100	610	10

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-23 D
Client ID: SB011 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:55
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	6600		ug/kg	530	91.	10
1,2,3-Trichlorobenzene	ND		ug/kg	1100	170	10
1,2,4-Trichlorobenzene	ND		ug/kg	1100	140	10
1,3,5-Trimethylbenzene	ND		ug/kg	1100	100	10
1,2,4-Trimethylbenzene	ND		ug/kg	1100	180	10
1,4-Dioxane	ND		ug/kg	43000	19000	10
p-Diethylbenzene	3600		ug/kg	1100	94.	10
p-Ethyltoluene	ND		ug/kg	1100	200	10
1,2,4,5-Tetramethylbenzene	16000		ug/kg	1100	100	10
Ethyl ether	ND		ug/kg	1100	180	10
trans-1,4-Dichloro-2-butene	ND		ug/kg	2700	760	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	**143**	Q	70-130
Dibromofluoromethane	109		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-24
Client ID: SB011 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:45
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/11/22 18:44
Analyst: JC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.31	1
Tetrachloroethene	ND		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.80	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.57	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	0.24	J	ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.67	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-24 Date Collected: 03/01/22 10:45

Client ID: SB011 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	0.37	J	ug/kg	1.1	0.33	1
Xylenes, Total	0.37	J	ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	15		ug/kg	11	5.5	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.6	1
Vinyl acetate	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.14	1
2-Hexanone	ND		ug/kg	11	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.57	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	0.25	J	ug/kg	1.1	0.19	1
sec-Butylbenzene	0.22	J	ug/kg	1.1	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	0.12	J	ug/kg	1.1	0.12	1
Naphthalene	3.5	J	ug/kg	4.6	0.75	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-24 Date Collected: 03/01/22 10:45

Client ID: SB011 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	0.59	J	ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	1.5	J	ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	92	40.	1
p-Diethylbenzene	0.39	J	ug/kg	2.3	0.20	1
p-Ethyltoluene	0.89	J	ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	0.66	J	ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	105		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-25
Client ID: SB010 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 14:21
Analyst: MKS
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	0.63	J	ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-25 Date Collected: 03/01/22 12:05

Client ID: SB010 4-6 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.93	1
Acetone	7.7	J	ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	0.66	J	ug/kg	1.0	0.11	1
Naphthalene	2.2	J	ug/kg	4.0	0.66	1
Acrylonitrile	ND		ug/kg	4.0	1.2	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-25 Date Collected: 03/01/22 12:05

Client ID: SB010 4-6 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	81	36.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	0.88	J	ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	108		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-26
Client ID: SB010 8-10
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 14:48
Analyst: MKS
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.19	1
Benzene	ND		ug/kg	0.56	0.19	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.2	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-26 Date Collected: 03/01/22 12:10

Client ID: SB010 8-10 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.23	1
p/m-Xylene	ND		ug/kg	2.2	0.63	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	8.9	J	ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	2.4	J	ug/kg	4.5	0.73	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-26 Date Collected: 03/01/22 12:10

Client ID: SB010 8-10 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.38	1
1,4-Dioxane	ND		ug/kg	90	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.43	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	110		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-27
Client ID: SB003 9-11
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 15:16
Analyst: MKS
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.21	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.18	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.98	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-27 Date Collected: 03/01/22 12:15

Client ID: SB003 9-11 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.31	1
Xylenes, Total	ND		ug/kg	1.0	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.21	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.18	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	2.2	J	ug/kg	4.2	0.68	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-27 Date Collected: 03/01/22 12:15

Client ID: SB003 9-11 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	84	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.19	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	106		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-28
Client ID: SB003 20-22
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 15:43
Analyst: MKS
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.97	1
Bromomethane	ND		ug/kg	2.1	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-28 Date Collected: 03/01/22 12:40

Client ID: SB003 20-22 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.95	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	2.2	J	ug/kg	4.2	0.67	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-28 Date Collected: 03/01/22 12:40

Client ID: SB003 20-22 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	114		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-29
Client ID: SB005 12-14
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/11/22 18:11
Analyst: AJK
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.95	1
Bromomethane	ND		ug/kg	2.0	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-29 Date Collected: 03/01/22 17:30

Client ID: SB005 12-14 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.94	1
Acetone	13		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	0.14	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.20	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.66	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-29 Date Collected: 03/01/22 17:30

Client ID: SB005 12-14 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	82	36.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.20	1
Ethyl ether	ND		ug/kg	2.0	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	101		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-30
Client ID: SB002 2-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/11/22 17:32
Analyst: AJK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.1	3.3	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.21	1
Chloroform	ND		ug/kg	2.1	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.33	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.18	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.38	1
Tetrachloroethene	ND		ug/kg	0.71	0.28	1
Chlorobenzene	ND		ug/kg	0.71	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.99	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.36	1
1,1,1-Trichloroethane	ND		ug/kg	0.71	0.24	1
Bromodichloromethane	ND		ug/kg	0.71	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.39	1
cis-1,3-Dichloropropene	ND		ug/kg	0.71	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.71	0.22	1
1,1-Dichloropropene	ND		ug/kg	0.71	0.23	1
Bromoform	ND		ug/kg	5.7	0.35	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.71	0.24	1
Benzene	ND		ug/kg	0.71	0.24	1
Toluene	0.89	J	ug/kg	1.4	0.77	1
Ethylbenzene	0.31	J	ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.7	1.3	1
Bromomethane	ND		ug/kg	2.8	0.83	1
Vinyl chloride	ND		ug/kg	1.4	0.48	1
Chloroethane	ND		ug/kg	2.8	0.64	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.20	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-30 Date Collected: 03/01/22 15:25

Client ID: SB002 2-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.71	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.29	1
p/m-Xylene	ND		ug/kg	2.8	0.80	1
o-Xylene	ND		ug/kg	1.4	0.41	1
Xylenes, Total	ND		ug/kg	1.4	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.25	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.20	1
Dibromomethane	ND		ug/kg	2.8	0.34	1
Styrene	ND		ug/kg	1.4	0.28	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	7.0	J	ug/kg	14	6.8	1
Carbon disulfide	ND		ug/kg	14	6.5	1
2-Butanone	ND		ug/kg	14	3.2	1
Vinyl acetate	ND		ug/kg	14	3.1	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.8	0.18	1
2-Hexanone	ND		ug/kg	14	1.7	1
Bromochloromethane	ND		ug/kg	2.8	0.29	1
2,2-Dichloropropane	ND		ug/kg	2.8	0.29	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.40	1
1,3-Dichloropropane	ND		ug/kg	2.8	0.24	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.71	0.19	1
Bromobenzene	ND		ug/kg	2.8	0.21	1
n-Butylbenzene	ND		ug/kg	1.4	0.24	1
sec-Butylbenzene	ND		ug/kg	1.4	0.21	1
tert-Butylbenzene	ND		ug/kg	2.8	0.17	1
o-Chlorotoluene	ND		ug/kg	2.8	0.27	1
p-Chlorotoluene	ND		ug/kg	2.8	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.3	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.24	1
Isopropylbenzene	ND		ug/kg	1.4	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.16	1
Naphthalene	ND		ug/kg	5.7	0.92	1
Acrylonitrile	ND		ug/kg	5.7	1.6	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-30 Date Collected: 03/01/22 15:25

Client ID: SB002 2-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.46	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.39	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.27	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.48	1
1,4-Dioxane	ND		ug/kg	110	50.	1
p-Diethylbenzene	ND		ug/kg	2.8	0.25	1
p-Ethyltoluene	ND		ug/kg	2.8	0.55	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.8	0.27	1
Ethyl ether	ND		ug/kg	2.8	0.48	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.1	2.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	102		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-31
Client ID: SB009 9-11
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/11/22 04:24
Analyst: JC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	300	140	1
1,1-Dichloroethane	ND		ug/kg	59	8.6	1
Chloroform	ND		ug/kg	88	8.3	1
Carbon tetrachloride	ND		ug/kg	59	14.	1
1,2-Dichloropropane	ND		ug/kg	59	7.4	1
Dibromochloromethane	ND		ug/kg	59	8.3	1
1,1,2-Trichloroethane	ND		ug/kg	59	16.	1
Tetrachloroethene	ND		ug/kg	30	12.	1
Chlorobenzene	ND		ug/kg	30	7.5	1
Trichlorofluoromethane	ND		ug/kg	240	41.	1
1,2-Dichloroethane	ND		ug/kg	59	15.	1
1,1,1-Trichloroethane	ND		ug/kg	30	9.8	1
Bromodichloromethane	ND		ug/kg	30	6.4	1
trans-1,3-Dichloropropene	ND		ug/kg	59	16.	1
cis-1,3-Dichloropropene	ND		ug/kg	30	9.3	1
1,3-Dichloropropene, Total	ND		ug/kg	30	9.3	1
1,1-Dichloropropene	ND		ug/kg	30	9.4	1
Bromoform	ND		ug/kg	240	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	30	9.8	1
Benzene	ND		ug/kg	30	9.8	1
Toluene	ND		ug/kg	59	32.	1
Ethylbenzene	ND		ug/kg	59	8.3	1
Chloromethane	ND		ug/kg	240	55.	1
Bromomethane	ND		ug/kg	120	34.	1
Vinyl chloride	ND		ug/kg	59	20.	1
Chloroethane	ND		ug/kg	120	27.	1
1,1-Dichloroethene	ND		ug/kg	59	14.	1
trans-1,2-Dichloroethene	ND		ug/kg	88	8.1	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-31 Date Collected: 03/01/22 16:40

Client ID: SB009 9-11 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	30	8.1	1
1,2-Dichlorobenzene	ND		ug/kg	120	8.5	1
1,3-Dichlorobenzene	ND		ug/kg	120	8.7	1
1,4-Dichlorobenzene	ND		ug/kg	120	10.	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	ND		ug/kg	120	33.	1
o-Xylene	ND		ug/kg	59	17.	1
Xylenes, Total	ND		ug/kg	59	17.	1
cis-1,2-Dichloroethene	ND		ug/kg	59	10.	1
1,2-Dichloroethene, Total	ND		ug/kg	59	8.1	1
Dibromomethane	ND		ug/kg	120	14.	1
Styrene	ND		ug/kg	59	12.	1
Dichlorodifluoromethane	ND		ug/kg	590	54.	1
Acetone	ND		ug/kg	590	280	1
Carbon disulfide	ND		ug/kg	590	270	1
2-Butanone	ND		ug/kg	590	130	1
Vinyl acetate	ND		ug/kg	590	130	1
4-Methyl-2-pentanone	ND		ug/kg	590	76.	1
1,2,3-Trichloropropane	ND		ug/kg	120	7.5	1
2-Hexanone	ND		ug/kg	590	70.	1
Bromochloromethane	ND		ug/kg	120	12.	1
2,2-Dichloropropane	ND		ug/kg	120	12.	1
1,2-Dibromoethane	ND		ug/kg	59	16.	1
1,3-Dichloropropane	ND		ug/kg	120	9.8	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	30	7.8	1
Bromobenzene	ND		ug/kg	120	8.6	1
n-Butylbenzene	230		ug/kg	59	9.8	1
sec-Butylbenzene	89		ug/kg	59	8.6	1
tert-Butylbenzene	ND		ug/kg	120	7.0	1
o-Chlorotoluene	ND		ug/kg	120	11.	1
p-Chlorotoluene	ND		ug/kg	120	6.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	180	59.	1
Hexachlorobutadiene	ND		ug/kg	240	10.	1
Isopropylbenzene	100		ug/kg	59	6.4	1
p-Isopropyltoluene	ND		ug/kg	59	6.4	1
Naphthalene	140	J	ug/kg	240	38.	1
Acrylonitrile	ND		ug/kg	240	68.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-31 Date Collected: 03/01/22 16:40

Client ID: SB009 9-11 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	380		ug/kg	59	10.	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	16.	1
1,3,5-Trimethylbenzene	ND		ug/kg	120	11.	1
1,2,4-Trimethylbenzene	ND		ug/kg	120	20.	1
1,4-Dioxane	ND		ug/kg	4700	2100	1
p-Diethylbenzene	280		ug/kg	120	10.	1
p-Ethyltoluene	ND		ug/kg	120	23.	1
1,2,4,5-Tetramethylbenzene	1200		ug/kg	120	11.	1
Ethyl ether	ND		ug/kg	120	20.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	300	84.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	104		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-31
Client ID: SB009 9-11
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/14/22 12:10
Analyst: MKS
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	0.99	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.99	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.99	0.12	1
Dibromochloromethane	ND		ug/kg	0.99	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.99	0.26	1
Tetrachloroethene	ND		ug/kg	0.50	0.19	1
Chlorobenzene	4.1		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.16	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	0.67		ug/kg	0.50	0.16	1
Toluene	0.70	J	ug/kg	0.99	0.54	1
Ethylbenzene	1.3		ug/kg	0.99	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	0.99	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-31 Date Collected: 03/01/22 16:40

Client ID: SB009 9-11 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	4.1		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	0.53	J	ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	3.8		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	5.4		ug/kg	2.0	0.56	1
o-Xylene	0.68	J	ug/kg	0.99	0.29	1
Xylenes, Total	6.1	J	ug/kg	0.99	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	0.99	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.91	1
Acetone	83		ug/kg	9.9	4.8	1
Carbon disulfide	ND		ug/kg	9.9	4.5	1
2-Butanone	26		ug/kg	9.9	2.2	1
Vinyl acetate	ND		ug/kg	9.9	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	9.9	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.99	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	160		ug/kg	0.99	0.16	1
sec-Butylbenzene	74		ug/kg	0.99	0.14	1
tert-Butylbenzene	7.0		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	120		ug/kg	0.99	0.11	1
p-Isopropyltoluene	2.4		ug/kg	0.99	0.11	1
Naphthalene	15		ug/kg	4.0	0.65	1
Acrylonitrile	ND		ug/kg	4.0	1.1	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-31 Date Collected: 03/01/22 16:40

Client ID: SB009 9-11 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	380	E	ug/kg	0.99	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	2.3		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	4.2		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	80	35.	1
p-Diethylbenzene	200		ug/kg	2.0	0.18	1
p-Ethyltoluene	10		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	660	E	ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	121		70-130
Dibromofluoromethane	94		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-32
Client ID: SB009 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/11/22 01:54
Analyst: JC
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.55	0.21	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-32 Date Collected: 03/01/22 16:30

Client ID: SB009 3-5 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
Acrylonitrile	ND		ug/kg	4.4	1.2	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-32 Date Collected: 03/01/22 16:30

Client ID: SB009 3-5 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	88	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	112		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-36
Client ID: TRIP BLANK
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 00:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/09/22 14:00
Analyst: LAC

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

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-36 Date Collected: 03/01/22 00:00

Client ID: TRIP BLANK Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-36 Date Collected: 03/01/22 00:00

Client ID: TRIP BLANK Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	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	106		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	103		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-37
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 18:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/09/22 14:23
Analyst: LAC

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

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-37 Date Collected: 03/01/22 18:10

Client ID: EQUIPMENT BLANK Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-37 Date Collected: 03/01/22 18:10

Client ID: EQUIPMENT BLANK Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	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	108		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	104		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/09/22 09:23
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 36-37 Batch: WG1614007-5					
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: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/09/22 09:23
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 36-37 Batch: WG1614007-5					
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: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/09/22 09:23
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 36-37 Batch: WG1614007-5					
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

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

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/10/22 09:47
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,07-08,10-19 Batch: WG1614355-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/10/22 09:47
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,07-08,10-19 Batch: WG1614355-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/10/22 09:47
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,07-08,10-19 Batch: WG1614355-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	98		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/10/22 12:59
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 20-21,25-28 Batch: WG1614385-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/10/22 12:59
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 20-21,25-28 Batch: WG1614385-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/10/22 12:59
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 20-21,25-28 Batch: WG1614385-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	2.2	J	ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/10/22 18:49
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 22,32 Batch: WG1614496-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	1.0	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/10/22 18:49
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 22,32 Batch: WG1614496-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/10/22 18:49
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 22,32 Batch: WG1614496-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/11/22 11:04
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 29-30 Batch: WG1615121-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/11/22 11:04
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 29-30 Batch: WG1615121-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/11/22 11:04
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 29-30 Batch: WG1615121-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	97		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/10/22 18:49
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 23,31 Batch: WG1615246-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	51	J	ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/10/22 18:49
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 23,31 Batch: WG1615246-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/10/22 18:49
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 23,31 Batch: WG1615246-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/11/22 11:58
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 24 Batch: WG1615253-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	1.0	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/11/22 11:58
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 24 Batch: WG1615253-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/11/22 11:58
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 24 Batch: WG1615253-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/11/22 08:46
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1615440-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/11/22 08:46
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1615440-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/11/22 08:46
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1615440-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	91		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/14/22 09:36
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 31 Batch: WG1615482-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/14/22 09:36
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 31 Batch: WG1615482-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/14/22 09:36
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 31 Batch: WG1615482-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	92		70-130

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/14/22 08:47
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 09 Batch: WG1615592-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/14/22 08:47
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 09 Batch: WG1615592-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/14/22 08:47
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 09 Batch: WG1615592-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	2.2	J	ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	107		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 36-37 Batch: WG1614007-3 WG1614007-4								
Methylene chloride	110		110		70-130	0		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	100		110		63-132	10		20
1,2-Dichloropropane	100		110		70-130	10		20
Dibromochloromethane	94		94		63-130	0		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	96		96		70-130	0		20
Chlorobenzene	97		94		75-130	3		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	100		110		67-130	10		20
trans-1,3-Dichloropropene	95		96		70-130	1		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
1,1-Dichloropropene	100		110		70-130	10		20
Bromoform	93		97		54-136	4		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	110		110		70-130	0		20
Toluene	98		96		70-130	2		20
Ethylbenzene	96		95		70-130	1		20
Chloromethane	89		92		64-130	3		20
Bromomethane	62		62		39-139	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 36-37 Batch: WG1614007-3 WG1614007-4								
Vinyl chloride	96		96		55-140	0		20
Chloroethane	99		98		55-138	1		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	90		91		70-130	1		20
1,3-Dichlorobenzene	91		93		70-130	2		20
1,4-Dichlorobenzene	90		92		70-130	2		20
Methyl tert butyl ether	98		100		63-130	2		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	100		110		70-130	10		20
1,2,3-Trichloropropane	100		100		64-130	0		20
Acrylonitrile	100		120		70-130	18		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	99		100		36-147	1		20
Acetone	**160**	Q	**180**	Q	58-148	12		20
Carbon disulfide	99		98		51-130	1		20
2-Butanone	120		**140**	Q	63-138	15		20
Vinyl acetate	110		110		70-130	0		20
4-Methyl-2-pentanone	95		100		59-130	5		20
2-Hexanone	110		120		57-130	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 36-37 Batch: WG1614007-3 WG1614007-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	100		100		70-130	0		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	93		94		64-130	1		20
Bromobenzene	95		97		70-130	2		20
n-Butylbenzene	98		100		53-136	2		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	95		97		70-130	2		20
o-Chlorotoluene	96		98		70-130	2		20
p-Chlorotoluene	94		96		70-130	2		20
1,2-Dibromo-3-chloropropane	84		95		41-144	12		20
Hexachlorobutadiene	96		97		63-130	1		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	95		97		70-130	2		20
Naphthalene	84		96		70-130	13		20
n-Propylbenzene	98		98		69-130	0		20
1,2,3-Trichlorobenzene	85		94		70-130	10		20
1,2,4-Trichlorobenzene	89		94		70-130	5		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	99		100		70-130	1		20
1,4-Dioxane	120		122		56-162	2		20
p-Diethylbenzene	93		93		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 36-37 Batch: WG1614007-3 WG1614007-4								
p-Ethyltoluene	98		100		70-130	2		20
1,2,4,5-Tetramethylbenzene	90		92		70-130	2		20
Ethyl ether	98		100		59-134	2		20
trans-1,4-Dichloro-2-butene	88		91		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		105		70-130
Toluene-d8	95		95		70-130
4-Bromofluorobenzene	99		101		70-130
Dibromofluoromethane	103		105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,07-08,10-19 Batch: WG1614355-3 WG1614355-4								
Methylene chloride	88		85		70-130	3		30
1,1-Dichloroethane	86		84		70-130	2		30
Chloroform	91		90		70-130	1		30
Carbon tetrachloride	106		107		70-130	1		30
1,2-Dichloropropane	86		86		70-130	0		30
Dibromochloromethane	104		100		70-130	4		30
1,1,2-Trichloroethane	95		91		70-130	4		30
Tetrachloroethene	124		125		70-130	1		30
Chlorobenzene	97		97		70-130	0		30
Trichlorofluoromethane	96		96		70-139	0		30
1,2-Dichloroethane	89		87		70-130	2		30
1,1,1-Trichloroethane	100		101		70-130	1		30
Bromodichloromethane	92		91		70-130	1		30
trans-1,3-Dichloropropene	94		91		70-130	3		30
cis-1,3-Dichloropropene	93		93		70-130	0		30
1,1-Dichloropropene	102		101		70-130	1		30
Bromoform	101		93		70-130	8		30
1,1,2,2-Tetrachloroethane	93		84		70-130	10		30
Benzene	92		92		70-130	0		30
Toluene	94		93		70-130	1		30
Ethylbenzene	92		93		70-130	1		30
Chloromethane	80		78		52-130	3		30
Bromomethane	92		92		57-147	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,07-08,10-19 Batch: WG1614355-3 WG1614355-4								
Vinyl chloride	76		72		67-130	5		30
Chloroethane	70		68		50-151	3		30
1,1-Dichloroethene	107		105		65-135	2		30
trans-1,2-Dichloroethene	100		99		70-130	1		30
Trichloroethene	98		98		70-130	0		30
1,2-Dichlorobenzene	101		98		70-130	3		30
1,3-Dichlorobenzene	99		98		70-130	1		30
1,4-Dichlorobenzene	98		98		70-130	0		30
Methyl tert butyl ether	92		86		66-130	7		30
p/m-Xylene	96		97		70-130	1		30
o-Xylene	94		94		70-130	0		30
cis-1,2-Dichloroethene	96		94		70-130	2		30
Dibromomethane	97		94		70-130	3		30
Styrene	92		92		70-130	0		30
Dichlorodifluoromethane	104		101		30-146	3		30
Acetone	76		80		54-140	5		30
Carbon disulfide	87		85		59-130	2		30
2-Butanone	80		76		70-130	5		30
Vinyl acetate	85		78		70-130	9		30
4-Methyl-2-pentanone	96		83		70-130	15		30
1,2,3-Trichloropropane	93		84		68-130	10		30
2-Hexanone	88		79		70-130	11		30
Bromochloromethane	106		103		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,07-08,10-19 Batch: WG1614355-3 WG1614355-4								
2,2-Dichloropropane	94		97		70-130	3		30
1,2-Dibromoethane	107		103		70-130	4		30
1,3-Dichloropropane	93		89		69-130	4		30
1,1,1,2-Tetrachloroethane	101		101		70-130	0		30
Bromobenzene	103		102		70-130	1		30
n-Butylbenzene	94		95		70-130	1		30
sec-Butylbenzene	97		97		70-130	0		30
tert-Butylbenzene	98		99		70-130	1		30
o-Chlorotoluene	89		88		70-130	1		30
p-Chlorotoluene	90		89		70-130	1		30
1,2-Dibromo-3-chloropropane	111		96		68-130	14		30
Hexachlorobutadiene	117		117		67-130	0		30
Isopropylbenzene	95		94		70-130	1		30
p-Isopropyltoluene	98		99		70-130	1		30
Naphthalene	104		96		70-130	8		30
Acrylonitrile	94		83		70-130	12		30
n-Propylbenzene	91		90		70-130	1		30
1,2,3-Trichlorobenzene	110		109		70-130	1		30
1,2,4-Trichlorobenzene	111		110		70-130	1		30
1,3,5-Trimethylbenzene	93		93		70-130	0		30
1,2,4-Trimethylbenzene	91		92		70-130	1		30
1,4-Dioxane	**138**	Q	86		65-136	**46**	Q	30
p-Diethylbenzene	98		99		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,07-08,10-19 Batch: WG1614355-3 WG1614355-4								
p-Ethyltoluene	94		94		70-130	0		30
1,2,4,5-Tetramethylbenzene	94		94		70-130	0		30
Ethyl ether	92		86		67-130	7		30
trans-1,4-Dichloro-2-butene	88		82		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		91		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	95		93		70-130
Dibromofluoromethane	99		99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 20-21,25-28 Batch: WG1614385-3 WG1614385-4								
Methylene chloride	98		106		70-130	8		30
1,1-Dichloroethane	100		99		70-130	1		30
Chloroform	101		98		70-130	3		30
Carbon tetrachloride	97		94		70-130	3		30
1,2-Dichloropropane	102		100		70-130	2		30
Dibromochloromethane	114		114		70-130	0		30
1,1,2-Trichloroethane	113		112		70-130	1		30
Tetrachloroethene	111		109		70-130	2		30
Chlorobenzene	112		110		70-130	2		30
Trichlorofluoromethane	98		97		70-139	1		30
1,2-Dichloroethane	101		99		70-130	2		30
1,1,1-Trichloroethane	99		96		70-130	3		30
Bromodichloromethane	102		101		70-130	1		30
trans-1,3-Dichloropropene	120		121		70-130	1		30
cis-1,3-Dichloropropene	111		110		70-130	1		30
1,1-Dichloropropene	101		99		70-130	2		30
Bromoform	112		114		70-130	2		30
1,1,2,2-Tetrachloroethane	111		112		70-130	1		30
Benzene	102		102		70-130	0		30
Toluene	112		110		70-130	2		30
Ethylbenzene	113		111		70-130	2		30
Chloromethane	97		96		52-130	1		30
Bromomethane	94		100		57-147	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 20-21,25-28 Batch: WG1614385-3 WG1614385-4								
Vinyl chloride	100		97		67-130	3		30
Chloroethane	105		103		50-151	2		30
1,1-Dichloroethene	100		97		65-135	3		30
trans-1,2-Dichloroethene	100		96		70-130	4		30
Trichloroethene	98		98		70-130	0		30
1,2-Dichlorobenzene	116		115		70-130	1		30
1,3-Dichlorobenzene	120		116		70-130	3		30
1,4-Dichlorobenzene	115		113		70-130	2		30
Methyl tert butyl ether	104		104		66-130	0		30
p/m-Xylene	121		118		70-130	3		30
o-Xylene	121		121		70-130	0		30
cis-1,2-Dichloroethene	101		100		70-130	1		30
Dibromomethane	101		100		70-130	1		30
Styrene	114		112		70-130	2		30
Dichlorodifluoromethane	94		92		30-146	2		30
Acetone	114		110		54-140	4		30
Carbon disulfide	98		96		59-130	2		30
2-Butanone	106		105		70-130	1		30
Vinyl acetate	108		107		70-130	1		30
4-Methyl-2-pentanone	104		105		70-130	1		30
1,2,3-Trichloropropane	110		112		68-130	2		30
2-Hexanone	114		116		70-130	2		30
Bromochloromethane	102		101		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 20-21,25-28 Batch: WG1614385-3 WG1614385-4								
2,2-Dichloropropane	103		100		70-130	3		30
1,2-Dibromoethane	115		116		70-130	1		30
1,3-Dichloropropane	113		114		69-130	1		30
1,1,1,2-Tetrachloroethane	114		113		70-130	1		30
Bromobenzene	111		111		70-130	0		30
n-Butylbenzene	123		120		70-130	2		30
sec-Butylbenzene	105		103		70-130	2		30
tert-Butylbenzene	117		115		70-130	2		30
o-Chlorotoluene	117		116		70-130	1		30
p-Chlorotoluene	119		118		70-130	1		30
1,2-Dibromo-3-chloropropane	116		120		68-130	3		30
Hexachlorobutadiene	109		108		67-130	1		30
Isopropylbenzene	116		113		70-130	3		30
p-Isopropyltoluene	107		105		70-130	2		30
Naphthalene	109		108		70-130	1		30
Acrylonitrile	107		105		70-130	2		30
n-Propylbenzene	115		113		70-130	2		30
1,2,3-Trichlorobenzene	120		117		70-130	3		30
1,2,4-Trichlorobenzene	124		120		70-130	3		30
1,3,5-Trimethylbenzene	119		118		70-130	1		30
1,2,4-Trimethylbenzene	123		122		70-130	1		30
1,4-Dioxane	81		78		65-136	4		30
p-Diethylbenzene	121		118		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 20-21,25-28 Batch: WG1614385-3 WG1614385-4								
p-Ethyltoluene	120		119		70-130	1		30
1,2,4,5-Tetramethylbenzene	118		116		70-130	2		30
Ethyl ether	102		101		67-130	1		30
trans-1,4-Dichloro-2-butene	116		119		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		98		70-130
Toluene-d8	105		106		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	96		94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 22,32 Batch: WG1614496-3 WG1614496-4								
Methylene chloride	80		82		70-130	2		30
1,1-Dichloroethane	93		94		70-130	1		30
Chloroform	79		80		70-130	1		30
Carbon tetrachloride	93		94		70-130	1		30
1,2-Dichloropropane	99		99		70-130	0		30
Dibromochloromethane	89		88		70-130	1		30
1,1,2-Trichloroethane	84		83		70-130	1		30
Tetrachloroethene	92		93		70-130	1		30
Chlorobenzene	92		91		70-130	1		30
Trichlorofluoromethane	97		98		70-139	1		30
1,2-Dichloroethane	96		95		70-130	1		30
1,1,1-Trichloroethane	85		86		70-130	1		30
Bromodichloromethane	80		82		70-130	2		30
trans-1,3-Dichloropropene	90		90		70-130	0		30
cis-1,3-Dichloropropene	89		90		70-130	1		30
1,1-Dichloropropene	86		91		70-130	6		30
Bromoform	82		81		70-130	1		30
1,1,2,2-Tetrachloroethane	90		88		70-130	2		30
Benzene	83		85		70-130	2		30
Toluene	86		86		70-130	0		30
Ethylbenzene	88		88		70-130	0		30
Chloromethane	88		89		52-130	1		30
Bromomethane	105		102		57-147	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 22,32 Batch: WG1614496-3 WG1614496-4								
Vinyl chloride	88		91		67-130	3		30
Chloroethane	92		92		50-151	0		30
1,1-Dichloroethene	83		84		65-135	1		30
trans-1,2-Dichloroethene	82		84		70-130	2		30
Trichloroethene	86		86		70-130	0		30
1,2-Dichlorobenzene	96		96		70-130	0		30
1,3-Dichlorobenzene	98		97		70-130	1		30
1,4-Dichlorobenzene	97		97		70-130	0		30
Methyl tert butyl ether	82		81		66-130	1		30
p/m-Xylene	94		95		70-130	1		30
o-Xylene	91		91		70-130	0		30
cis-1,2-Dichloroethene	80		82		70-130	2		30
Dibromomethane	83		85		70-130	2		30
Styrene	89		88		70-130	1		30
Dichlorodifluoromethane	66		66		30-146	0		30
Acetone	95		98		54-140	3		30
Carbon disulfide	66		67		59-130	2		30
2-Butanone	92		97		70-130	5		30
Vinyl acetate	107		104		70-130	3		30
4-Methyl-2-pentanone	114		112		70-130	2		30
1,2,3-Trichloropropane	91		89		68-130	2		30
2-Hexanone	101		96		70-130	5		30
Bromochloromethane	86		86		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 22,32 Batch: WG1614496-3 WG1614496-4								
2,2-Dichloropropane	86		88		70-130	2		30
1,2-Dibromoethane	95		94		70-130	1		30
1,3-Dichloropropane	87		86		69-130	1		30
1,1,1,2-Tetrachloroethane	91		91		70-130	0		30
Bromobenzene	95		96		70-130	1		30
n-Butylbenzene	102		102		70-130	0		30
sec-Butylbenzene	103		104		70-130	1		30
tert-Butylbenzene	102		102		70-130	0		30
o-Chlorotoluene	96		98		70-130	2		30
p-Chlorotoluene	97		96		70-130	1		30
1,2-Dibromo-3-chloropropane	89		89		68-130	0		30
Hexachlorobutadiene	91		93		67-130	2		30
Isopropylbenzene	101		101		70-130	0		30
p-Isopropyltoluene	103		103		70-130	0		30
Naphthalene	95		94		70-130	1		30
Acrylonitrile	105		104		70-130	1		30
n-Propylbenzene	98		98		70-130	0		30
1,2,3-Trichlorobenzene	93		91		70-130	2		30
1,2,4-Trichlorobenzene	98		96		70-130	2		30
1,3,5-Trimethylbenzene	97		99		70-130	2		30
1,2,4-Trimethylbenzene	97		98		70-130	1		30
1,4-Dioxane	100		99		65-136	1		30
p-Diethylbenzene	102		102		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 22,32 Batch: WG1614496-3 WG1614496-4								
p-Ethyltoluene	102		102		70-130	0		30
1,2,4,5-Tetramethylbenzene	105		104		70-130	1		30
Ethyl ether	76		76		67-130	0		30
trans-1,4-Dichloro-2-butene	112		109		70-130	3		30

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

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 29-30 Batch: WG1615121-3 WG1615121-4								
Methylene chloride	86		85		70-130	1		30
1,1-Dichloroethane	96		96		70-130	0		30
Chloroform	89		88		70-130	1		30
Carbon tetrachloride	86		86		70-130	0		30
1,2-Dichloropropane	96		95		70-130	1		30
Dibromochloromethane	83		83		70-130	0		30
1,1,2-Trichloroethane	95		93		70-130	2		30
Tetrachloroethene	90		89		70-130	1		30
Chlorobenzene	92		90		70-130	2		30
Trichlorofluoromethane	95		92		70-139	3		30
1,2-Dichloroethane	90		88		70-130	2		30
1,1,1-Trichloroethane	89		88		70-130	1		30
Bromodichloromethane	90		90		70-130	0		30
trans-1,3-Dichloropropene	96		95		70-130	1		30
cis-1,3-Dichloropropene	94		94		70-130	0		30
1,1-Dichloropropene	94		92		70-130	2		30
Bromoform	87		88		70-130	1		30
1,1,2,2-Tetrachloroethane	98		97		70-130	1		30
Benzene	94		93		70-130	1		30
Toluene	89		88		70-130	1		30
Ethylbenzene	94		93		70-130	1		30
Chloromethane	121		118		52-130	3		30
Bromomethane	94		93		57-147	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 29-30 Batch: WG1615121-3 WG1615121-4								
Vinyl chloride	118		116		67-130	2		30
Chloroethane	108		108		50-151	0		30
1,1-Dichloroethene	94		93		65-135	1		30
trans-1,2-Dichloroethene	93		92		70-130	1		30
Trichloroethene	90		89		70-130	1		30
1,2-Dichlorobenzene	92		90		70-130	2		30
1,3-Dichlorobenzene	92		90		70-130	2		30
1,4-Dichlorobenzene	93		90		70-130	3		30
Methyl tert butyl ether	92		92		66-130	0		30
p/m-Xylene	94		93		70-130	1		30
o-Xylene	95		94		70-130	1		30
cis-1,2-Dichloroethene	88		89		70-130	1		30
Dibromomethane	88		87		70-130	1		30
Styrene	97		96		70-130	1		30
Dichlorodifluoromethane	108		104		30-146	4		30
Acetone	135		135		54-140	0		30
Carbon disulfide	88		86		59-130	2		30
2-Butanone	113		110		70-130	3		30
Vinyl acetate	99		94		70-130	5		30
4-Methyl-2-pentanone	106		105		70-130	1		30
1,2,3-Trichloropropane	95		94		68-130	1		30
2-Hexanone	115		111		70-130	4		30
Bromochloromethane	88		88		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 29-30 Batch: WG1615121-3 WG1615121-4								
2,2-Dichloropropane	88		87		70-130	1		30
1,2-Dibromoethane	93		92		70-130	1		30
1,3-Dichloropropane	95		93		69-130	2		30
1,1,1,2-Tetrachloroethane	94		94		70-130	0		30
Bromobenzene	90		89		70-130	1		30
n-Butylbenzene	97		94		70-130	3		30
sec-Butylbenzene	96		94		70-130	2		30
tert-Butylbenzene	92		91		70-130	1		30
o-Chlorotoluene	94		93		70-130	1		30
p-Chlorotoluene	95		94		70-130	1		30
1,2-Dibromo-3-chloropropane	86		85		68-130	1		30
Hexachlorobutadiene	96		92		67-130	4		30
Isopropylbenzene	93		92		70-130	1		30
p-Isopropyltoluene	95		93		70-130	2		30
Naphthalene	101		99		70-130	2		30
Acrylonitrile	104		103		70-130	1		30
n-Propylbenzene	97		96		70-130	1		30
1,2,3-Trichlorobenzene	103		101		70-130	2		30
1,2,4-Trichlorobenzene	100		98		70-130	2		30
1,3,5-Trimethylbenzene	95		94		70-130	1		30
1,2,4-Trimethylbenzene	95		94		70-130	1		30
1,4-Dioxane	99		94		65-136	5		30
p-Diethylbenzene	98		95		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 29-30 Batch: WG1615121-3 WG1615121-4								
p-Ethyltoluene	97		95		70-130	2		30
1,2,4,5-Tetramethylbenzene	100		97		70-130	3		30
Ethyl ether	99		98		67-130	1		30
trans-1,4-Dichloro-2-butene	102		101		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		98		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	97		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 23,31 Batch: WG1615246-3 WG1615246-4								
Methylene chloride	80		82		70-130	2		30
1,1-Dichloroethane	93		94		70-130	1		30
Chloroform	79		80		70-130	1		30
Carbon tetrachloride	93		94		70-130	1		30
1,2-Dichloropropane	99		99		70-130	0		30
Dibromochloromethane	89		88		70-130	1		30
1,1,2-Trichloroethane	84		83		70-130	1		30
Tetrachloroethene	92		93		70-130	1		30
Chlorobenzene	92		91		70-130	1		30
Trichlorofluoromethane	97		98		70-139	1		30
1,2-Dichloroethane	96		95		70-130	1		30
1,1,1-Trichloroethane	85		86		70-130	1		30
Bromodichloromethane	80		82		70-130	2		30
trans-1,3-Dichloropropene	90		90		70-130	0		30
cis-1,3-Dichloropropene	89		90		70-130	1		30
1,1-Dichloropropene	86		91		70-130	6		30
Bromoform	82		81		70-130	1		30
1,1,2,2-Tetrachloroethane	90		88		70-130	2		30
Benzene	83		85		70-130	2		30
Toluene	86		86		70-130	0		30
Ethylbenzene	88		88		70-130	0		30
Chloromethane	88		89		52-130	1		30
Bromomethane	105		102		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 23,31 Batch: WG1615246-3 WG1615246-4								
Vinyl chloride	88		91		67-130	3		30
Chloroethane	92		92		50-151	0		30
1,1-Dichloroethene	83		84		65-135	1		30
trans-1,2-Dichloroethene	82		84		70-130	2		30
Trichloroethene	86		86		70-130	0		30
1,2-Dichlorobenzene	96		96		70-130	0		30
1,3-Dichlorobenzene	98		97		70-130	1		30
1,4-Dichlorobenzene	97		97		70-130	0		30
Methyl tert butyl ether	82		81		66-130	1		30
p/m-Xylene	94		95		70-130	1		30
o-Xylene	91		91		70-130	0		30
cis-1,2-Dichloroethene	80		82		70-130	2		30
Dibromomethane	83		85		70-130	2		30
Styrene	89		88		70-130	1		30
Dichlorodifluoromethane	66		66		30-146	0		30
Acetone	95		98		54-140	3		30
Carbon disulfide	66		67		59-130	2		30
2-Butanone	92		97		70-130	5		30
Vinyl acetate	107		104		70-130	3		30
4-Methyl-2-pentanone	114		112		70-130	2		30
1,2,3-Trichloropropane	91		89		68-130	2		30
2-Hexanone	101		96		70-130	5		30
Bromochloromethane	86		86		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 23,31 Batch: WG1615246-3 WG1615246-4								
2,2-Dichloropropane	86		88		70-130	2		30
1,2-Dibromoethane	95		94		70-130	1		30
1,3-Dichloropropane	87		86		69-130	1		30
1,1,1,2-Tetrachloroethane	91		91		70-130	0		30
Bromobenzene	95		96		70-130	1		30
n-Butylbenzene	102		102		70-130	0		30
sec-Butylbenzene	103		104		70-130	1		30
tert-Butylbenzene	102		102		70-130	0		30
o-Chlorotoluene	96		98		70-130	2		30
p-Chlorotoluene	97		96		70-130	1		30
1,2-Dibromo-3-chloropropane	89		89		68-130	0		30
Hexachlorobutadiene	91		93		67-130	2		30
Isopropylbenzene	101		101		70-130	0		30
p-Isopropyltoluene	103		103		70-130	0		30
Naphthalene	95		94		70-130	1		30
Acrylonitrile	105		104		70-130	1		30
n-Propylbenzene	98		98		70-130	0		30
1,2,3-Trichlorobenzene	93		91		70-130	2		30
1,2,4-Trichlorobenzene	98		96		70-130	2		30
1,3,5-Trimethylbenzene	97		99		70-130	2		30
1,2,4-Trimethylbenzene	97		98		70-130	1		30
1,4-Dioxane	100		99		65-136	1		30
p-Diethylbenzene	102		102		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 23,31 Batch: WG1615246-3 WG1615246-4								
p-Ethyltoluene	102		102		70-130	0		30
1,2,4,5-Tetramethylbenzene	105		104		70-130	1		30
Ethyl ether	76		76		67-130	0		30
trans-1,4-Dichloro-2-butene	112		109		70-130	3		30

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

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 24 Batch: WG1615253-3 WG1615253-4								
Methylene chloride	86		77		70-130	11		30
1,1-Dichloroethane	100		92		70-130	8		30
Chloroform	85		78		70-130	9		30
Carbon tetrachloride	97		89		70-130	9		30
1,2-Dichloropropane	105		96		70-130	9		30
Dibromochloromethane	95		88		70-130	8		30
1,1,2-Trichloroethane	87		82		70-130	6		30
Tetrachloroethene	97		88		70-130	10		30
Chlorobenzene	97		87		70-130	11		30
Trichlorofluoromethane	104		93		70-139	11		30
1,2-Dichloroethane	103		94		70-130	9		30
1,1,1-Trichloroethane	88		81		70-130	8		30
Bromodichloromethane	85		79		70-130	7		30
trans-1,3-Dichloropropene	95		87		70-130	9		30
cis-1,3-Dichloropropene	94		87		70-130	8		30
1,1-Dichloropropene	91		82		70-130	10		30
Bromoform	89		82		70-130	8		30
1,1,2,2-Tetrachloroethane	92		88		70-130	4		30
Benzene	87		80		70-130	8		30
Toluene	91		84		70-130	8		30
Ethylbenzene	92		84		70-130	9		30
Chloromethane	99		88		52-130	12		30
Bromomethane	108		98		57-147	10		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 24 Batch: WG1615253-3 WG1615253-4								
Vinyl chloride	99		90		67-130	10		30
Chloroethane	101		88		50-151	14		30
1,1-Dichloroethene	90		81		65-135	11		30
trans-1,2-Dichloroethene	89		80		70-130	11		30
Trichloroethene	89		82		70-130	8		30
1,2-Dichlorobenzene	102		92		70-130	10		30
1,3-Dichlorobenzene	103		93		70-130	10		30
1,4-Dichlorobenzene	103		91		70-130	12		30
Methyl tert butyl ether	89		83		66-130	7		30
p/m-Xylene	98		89		70-130	10		30
o-Xylene	95		87		70-130	9		30
cis-1,2-Dichloroethene	89		79		70-130	12		30
Dibromomethane	89		86		70-130	3		30
Styrene	95		85		70-130	11		30
Dichlorodifluoromethane	74		67		30-146	10		30
Acetone	92		92		54-140	0		30
Carbon disulfide	72		64		59-130	12		30
2-Butanone	99		99		70-130	0		30
Vinyl acetate	114		106		70-130	7		30
4-Methyl-2-pentanone	119		117		70-130	2		30
1,2,3-Trichloropropane	94		89		68-130	5		30
2-Hexanone	102		98		70-130	4		30
Bromochloromethane	92		86		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 24 Batch: WG1615253-3 WG1615253-4								
2,2-Dichloropropane	88		80		70-130	10		30
1,2-Dibromoethane	100		95		70-130	5		30
1,3-Dichloropropane	92		84		69-130	9		30
1,1,1,2-Tetrachloroethane	97		88		70-130	10		30
Bromobenzene	101		91		70-130	10		30
n-Butylbenzene	108		95		70-130	13		30
sec-Butylbenzene	108		96		70-130	12		30
tert-Butylbenzene	107		95		70-130	12		30
o-Chlorotoluene	102		92		70-130	10		30
p-Chlorotoluene	102		91		70-130	11		30
1,2-Dibromo-3-chloropropane	92		88		68-130	4		30
Hexachlorobutadiene	99		87		67-130	13		30
Isopropylbenzene	106		94		70-130	12		30
p-Isopropyltoluene	109		96		70-130	13		30
Naphthalene	97		91		70-130	6		30
Acrylonitrile	111		107		70-130	4		30
n-Propylbenzene	103		92		70-130	11		30
1,2,3-Trichlorobenzene	95		88		70-130	8		30
1,2,4-Trichlorobenzene	102		90		70-130	13		30
1,3,5-Trimethylbenzene	104		94		70-130	10		30
1,2,4-Trimethylbenzene	104		93		70-130	11		30
1,4-Dioxane	103		103		65-136	0		30
p-Diethylbenzene	109		97		70-130	12		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 24 Batch: WG1615253-3 WG1615253-4								
p-Ethyltoluene	108		96		70-130	12		30
1,2,4,5-Tetramethylbenzene	110		98		70-130	12		30
Ethyl ether	83		78		67-130	6		30
trans-1,4-Dichloro-2-butene	116		108		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		103		70-130
Toluene-d8	98		96		70-130
4-Bromofluorobenzene	102		100		70-130
Dibromofluoromethane	96		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1615440-3 WG1615440-4								
Methylene chloride	83		82		70-130	1		30
1,1-Dichloroethane	86		84		70-130	2		30
Chloroform	88		87		70-130	1		30
Carbon tetrachloride	103		100		70-130	3		30
1,2-Dichloropropane	85		84		70-130	1		30
Dibromochloromethane	96		96		70-130	0		30
1,1,2-Trichloroethane	90		90		70-130	0		30
Tetrachloroethene	123		119		70-130	3		30
Chlorobenzene	96		94		70-130	2		30
Trichlorofluoromethane	93		90		70-139	3		30
1,2-Dichloroethane	83		84		70-130	1		30
1,1,1-Trichloroethane	98		96		70-130	2		30
Bromodichloromethane	87		87		70-130	0		30
trans-1,3-Dichloropropene	91		90		70-130	1		30
cis-1,3-Dichloropropene	89		89		70-130	0		30
1,1-Dichloropropene	100		98		70-130	2		30
Bromoform	90		91		70-130	1		30
1,1,2,2-Tetrachloroethane	86		87		70-130	1		30
Benzene	90		89		70-130	1		30
Toluene	94		92		70-130	2		30
Ethylbenzene	94		92		70-130	2		30
Chloromethane	84		80		52-130	5		30
Bromomethane	95		88		57-147	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1615440-3 WG1615440-4								
Vinyl chloride	75		72		67-130	4		30
Chloroethane	71		65		50-151	9		30
1,1-Dichloroethene	103		99		65-135	4		30
trans-1,2-Dichloroethene	96		94		70-130	2		30
Trichloroethene	96		94		70-130	2		30
1,2-Dichlorobenzene	97		96		70-130	1		30
1,3-Dichlorobenzene	99		98		70-130	1		30
1,4-Dichlorobenzene	99		96		70-130	3		30
Methyl tert butyl ether	82		82		66-130	0		30
p/m-Xylene	97		95		70-130	2		30
o-Xylene	94		93		70-130	1		30
cis-1,2-Dichloroethene	92		90		70-130	2		30
Dibromomethane	88		88		70-130	0		30
Styrene	91		90		70-130	1		30
Dichlorodifluoromethane	97		93		30-146	4		30
Acetone	95		92		54-140	3		30
Carbon disulfide	86		82		59-130	5		30
2-Butanone	84		82		70-130	2		30
Vinyl acetate	80		80		70-130	0		30
4-Methyl-2-pentanone	84		86		70-130	2		30
1,2,3-Trichloropropane	86		86		68-130	0		30
2-Hexanone	86		86		70-130	0		30
Bromochloromethane	95		95		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1615440-3 WG1615440-4								
2,2-Dichloropropane	99		96		70-130	3		30
1,2-Dibromoethane	98		99		70-130	1		30
1,3-Dichloropropane	89		89		69-130	0		30
1,1,1,2-Tetrachloroethane	97		97		70-130	0		30
Bromobenzene	99		97		70-130	2		30
n-Butylbenzene	101		97		70-130	4		30
sec-Butylbenzene	100		96		70-130	4		30
tert-Butylbenzene	100		96		70-130	4		30
o-Chlorotoluene	91		89		70-130	2		30
p-Chlorotoluene	92		89		70-130	3		30
1,2-Dibromo-3-chloropropane	93		95		68-130	2		30
Hexachlorobutadiene	119		115		67-130	3		30
Isopropylbenzene	96		93		70-130	3		30
p-Isopropyltoluene	101		97		70-130	4		30
Naphthalene	94		94		70-130	0		30
Acrylonitrile	84		85		70-130	1		30
n-Propylbenzene	94		91		70-130	3		30
1,2,3-Trichlorobenzene	106		106		70-130	0		30
1,2,4-Trichlorobenzene	108		107		70-130	1		30
1,3,5-Trimethylbenzene	95		92		70-130	3		30
1,2,4-Trimethylbenzene	94		91		70-130	3		30
1,4-Dioxane	80		82		65-136	2		30
p-Diethylbenzene	101		98		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1615440-3 WG1615440-4								
p-Ethyltoluene	96		93		70-130	3		30
1,2,4,5-Tetramethylbenzene	95		92		70-130	3		30
Ethyl ether	84		83		67-130	1		30
trans-1,4-Dichloro-2-butene	83		85		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		90		70-130
Toluene-d8	96		95		70-130
4-Bromofluorobenzene	90		89		70-130
Dibromofluoromethane	93		93		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 31 Batch: WG1615482-3 WG1615482-4								
Methylene chloride	92		88		70-130	4		30
1,1-Dichloroethane	102		98		70-130	4		30
Chloroform	93		90		70-130	3		30
Carbon tetrachloride	92		88		70-130	4		30
1,2-Dichloropropane	102		98		70-130	4		30
Dibromochloromethane	88		85		70-130	3		30
1,1,2-Trichloroethane	100		94		70-130	6		30
Tetrachloroethene	96		92		70-130	4		30
Chlorobenzene	96		93		70-130	3		30
Trichlorofluoromethane	100		95		70-139	5		30
1,2-Dichloroethane	93		88		70-130	6		30
1,1,1-Trichloroethane	94		91		70-130	3		30
Bromodichloromethane	94		91		70-130	3		30
trans-1,3-Dichloropropene	104		98		70-130	6		30
cis-1,3-Dichloropropene	102		98		70-130	4		30
1,1-Dichloropropene	102		97		70-130	5		30
Bromoform	96		88		70-130	9		30
1,1,2,2-Tetrachloroethane	107		97		70-130	10		30
Benzene	100		96		70-130	4		30
Toluene	94		91		70-130	3		30
Ethylbenzene	99		96		70-130	3		30
Chloromethane	127		123		52-130	3		30
Bromomethane	100		97		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 31 Batch: WG1615482-3 WG1615482-4								
Vinyl chloride	123		116		67-130	6		30
Chloroethane	117		112		50-151	4		30
1,1-Dichloroethene	103		97		65-135	6		30
trans-1,2-Dichloroethene	99		95		70-130	4		30
Trichloroethene	96		92		70-130	4		30
1,2-Dichlorobenzene	96		93		70-130	3		30
1,3-Dichlorobenzene	98		95		70-130	3		30
1,4-Dichlorobenzene	98		95		70-130	3		30
Methyl tert butyl ether	103		96		66-130	7		30
p/m-Xylene	98		96		70-130	2		30
o-Xylene	99		97		70-130	2		30
cis-1,2-Dichloroethene	94		91		70-130	3		30
Dibromomethane	93		88		70-130	6		30
Styrene	101		99		70-130	2		30
Dichlorodifluoromethane	106		102		30-146	4		30
Acetone	**169**	Q	**145**	Q	54-140	15		30
Carbon disulfide	96		91		59-130	5		30
2-Butanone	**136**	Q	122		70-130	11		30
Vinyl acetate	113		103		70-130	9		30
4-Methyl-2-pentanone	124		109		70-130	13		30
1,2,3-Trichloropropane	105		95		68-130	10		30
2-Hexanone	**140**	Q	124		70-130	12		30
Bromochloromethane	94		89		70-130	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 31 Batch: WG1615482-3 WG1615482-4								
2,2-Dichloropropane	96		92		70-130	4		30
1,2-Dibromoethane	102		95		70-130	7		30
1,3-Dichloropropane	100		95		69-130	5		30
1,1,1,2-Tetrachloroethane	98		95		70-130	3		30
Bromobenzene	94		90		70-130	4		30
n-Butylbenzene	105		101		70-130	4		30
sec-Butylbenzene	103		98		70-130	5		30
tert-Butylbenzene	98		94		70-130	4		30
o-Chlorotoluene	99		94		70-130	5		30
p-Chlorotoluene	101		96		70-130	5		30
1,2-Dibromo-3-chloropropane	99		90		68-130	10		30
Hexachlorobutadiene	105		101		67-130	4		30
Isopropylbenzene	99		93		70-130	6		30
p-Isopropyltoluene	102		98		70-130	4		30
Naphthalene	112		102		70-130	9		30
Acrylonitrile	116		105		70-130	10		30
n-Propylbenzene	104		98		70-130	6		30
1,2,3-Trichlorobenzene	111		107		70-130	4		30
1,2,4-Trichlorobenzene	112		106		70-130	6		30
1,3,5-Trimethylbenzene	101		97		70-130	4		30
1,2,4-Trimethylbenzene	101		98		70-130	3		30
1,4-Dioxane	106		103		65-136	3		30
p-Diethylbenzene	105		101		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 31 Batch: WG1615482-3 WG1615482-4								
p-Ethyltoluene	104		98		70-130	6		30
1,2,4,5-Tetramethylbenzene	108		103		70-130	5		30
Ethyl ether	107		100		67-130	7		30
trans-1,4-Dichloro-2-butene	113		102		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		96		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	103		100		70-130
Dibromofluoromethane	97		96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 Batch: WG1615592-3 WG1615592-4								
Methylene chloride	96		101		70-130	5		30
1,1-Dichloroethane	98		98		70-130	0		30
Chloroform	98		96		70-130	2		30
Carbon tetrachloride	95		98		70-130	3		30
1,2-Dichloropropane	100		98		70-130	2		30
Dibromochloromethane	111		110		70-130	1		30
1,1,2-Trichloroethane	110		109		70-130	1		30
Tetrachloroethene	108		110		70-130	2		30
Chlorobenzene	106		106		70-130	0		30
Trichlorofluoromethane	92		100		70-139	8		30
1,2-Dichloroethane	101		98		70-130	3		30
1,1,1-Trichloroethane	99		98		70-130	1		30
Bromodichloromethane	102		98		70-130	4		30
trans-1,3-Dichloropropene	117		115		70-130	2		30
cis-1,3-Dichloropropene	108		105		70-130	3		30
1,1-Dichloropropene	98		101		70-130	3		30
Bromoform	108		107		70-130	1		30
1,1,2,2-Tetrachloroethane	108		108		70-130	0		30
Benzene	100		99		70-130	1		30
Toluene	106		106		70-130	0		30
Ethylbenzene	108		108		70-130	0		30
Chloromethane	90		96		52-130	6		30
Bromomethane	86		92		57-147	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 Batch: WG1615592-3 WG1615592-4								
Vinyl chloride	86		96		67-130	11		30
Chloroethane	98		105		50-151	7		30
1,1-Dichloroethene	92		96		65-135	4		30
trans-1,2-Dichloroethene	95		93		70-130	2		30
Trichloroethene	95		96		70-130	1		30
1,2-Dichlorobenzene	111		109		70-130	2		30
1,3-Dichlorobenzene	113		112		70-130	1		30
1,4-Dichlorobenzene	109		107		70-130	2		30
Methyl tert butyl ether	100		98		66-130	2		30
p/m-Xylene	116		116		70-130	0		30
o-Xylene	116		116		70-130	0		30
cis-1,2-Dichloroethene	97		95		70-130	2		30
Dibromomethane	103		100		70-130	3		30
Styrene	108		108		70-130	0		30
Dichlorodifluoromethane	82		90		30-146	9		30
Acetone	116		107		54-140	8		30
Carbon disulfide	92		95		59-130	3		30
2-Butanone	102		102		70-130	0		30
Vinyl acetate	112		111		70-130	1		30
4-Methyl-2-pentanone	93		98		70-130	5		30
1,2,3-Trichloropropane	106		106		68-130	0		30
2-Hexanone	103		109		70-130	6		30
Bromochloromethane	103		100		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 Batch: WG1615592-3 WG1615592-4								
2,2-Dichloropropane	100		100		70-130	0		30
1,2-Dibromoethane	111		110		70-130	1		30
1,3-Dichloropropane	112		109		69-130	3		30
1,1,1,2-Tetrachloroethane	110		108		70-130	2		30
Bromobenzene	104		103		70-130	1		30
n-Butylbenzene	117		117		70-130	0		30
sec-Butylbenzene	100		101		70-130	1		30
tert-Butylbenzene	109		110		70-130	1		30
o-Chlorotoluene	109		109		70-130	0		30
p-Chlorotoluene	110		111		70-130	1		30
1,2-Dibromo-3-chloropropane	109		111		68-130	2		30
Hexachlorobutadiene	106		108		67-130	2		30
Isopropylbenzene	107		108		70-130	1		30
p-Isopropyltoluene	100		102		70-130	2		30
Naphthalene	104		103		70-130	1		30
Acrylonitrile	107		103		70-130	4		30
n-Propylbenzene	107		108		70-130	1		30
1,2,3-Trichlorobenzene	117		114		70-130	3		30
1,2,4-Trichlorobenzene	118		115		70-130	3		30
1,3,5-Trimethylbenzene	111		112		70-130	1		30
1,2,4-Trimethylbenzene	115		114		70-130	1		30
1,4-Dioxane	78		81		65-136	4		30
p-Diethylbenzene	114		114		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 Batch: WG1615592-3 WG1615592-4								
p-Ethyltoluene	112		113		70-130	1		30
1,2,4,5-Tetramethylbenzene	110		109		70-130	1		30
Ethyl ether	97		99		67-130	2		30
trans-1,4-Dichloro-2-butene	114		113		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		102		70-130
Toluene-d8	104		105		70-130
4-Bromofluorobenzene	94		96		70-130
Dibromofluoromethane	100		98		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,07-08,10-19 QC Batch ID: WG1614355-6 WG1614355-7 QC Sample: L2210848-01 Client ID: SB010 0-2												
Methylene chloride	ND	86.4	58	**67**	Q	68	84		70-130	16		30
1,1-Dichloroethane	ND	86.4	60	70		73	90		70-130	19		30
Chloroform	ND	86.4	60	70		74	91		70-130	20		30
Carbon tetrachloride	ND	86.4	64	74		91	112		70-130	**35**	Q	30
1,2-Dichloropropane	ND	86.4	58	**67**	Q	72	88		70-130	21		30
Dibromochloromethane	ND	86.4	59	**68**	Q	79	97		70-130	29		30
1,1,2-Trichloroethane	ND	86.4	58	**67**	Q	73	89		70-130	23		30
Tetrachloroethene	ND	86.4	58	**67**	Q	98	120		70-130	**51**	Q	30
Chlorobenzene	ND	86.4	45	**52**	Q	70	86		70-130	**43**	Q	30
Trichlorofluoromethane	ND	86.4	64	74		84	103		70-139	27		30
1,2-Dichloroethane	ND	86.4	58	**67**	Q	68	84		70-130	17		30
1,1,1-Trichloroethane	ND	86.4	65	75		87	106		70-130	28		30
Bromodichloromethane	ND	86.4	58	**67**	Q	74	90		70-130	24		30
trans-1,3-Dichloropropene	ND	86.4	49	**57**	Q	63	78		70-130	25		30
cis-1,3-Dichloropropene	ND	86.4	54	**62**	Q	68	84		70-130	24		30
1,1-Dichloropropene	ND	86.4	59	**68**	Q	85	104		70-130	**36**	Q	30
Bromoform	ND	86.4	51	**59**	Q	72	88		70-130	**34**	Q	30
1,1,2,2-Tetrachloroethane	ND	86.4	49	**56**	Q	67	83		70-130	**32**	Q	30
Benzene	ND	86.4	58	**67**	Q	76	93		70-130	26		30
Toluene	ND	86.4	52	**60**	Q	75	92		70-130	**36**	Q	30
Ethylbenzene	ND	86.4	45	**52**	Q	73	90		70-130	**47**	Q	30
Chloromethane	ND	86.4	61	71		70	86		52-130	13		30
Bromomethane	ND	86.4	62	71		72	88		57-147	16		30

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,07-08,10-19 QC Batch ID: WG1614355-6 WG1614355-7 QC Sample: L2210848-01 Client ID: SB010 0-2												
Vinyl chloride	ND	86.4	54	**62**	Q	64	78		67-130	18		30
Chloroethane	ND	86.4	46	53		54	66		50-151	17		30
1,1-Dichloroethene	ND	86.4	69	80		91	112		65-135	28		30
trans-1,2-Dichloroethene	ND	86.4	59	**68**	Q	78	96		70-130	28		30
Trichloroethene	ND	86.4	55	**64**	Q	78	95		70-130	**34**	Q	30
1,2-Dichlorobenzene	ND	86.4	32	**37**	Q	60	74		70-130	**62**	Q	30
1,3-Dichlorobenzene	ND	86.4	31	**36**	Q	59	72		70-130	**61**	Q	30
1,4-Dichlorobenzene	ND	86.4	30	**35**	Q	56	**69**	Q	70-130	**60**	Q	30
Methyl tert butyl ether	ND	86.4	59	68		71	87		66-130	19		30
p/m-Xylene	ND	173	89	**51**	Q	150	90		70-130	**49**	Q	30
o-Xylene	ND	173	88	**51**	Q	140	88		70-130	**48**	Q	30
cis-1,2-Dichloroethene	ND	86.4	58	**67**	Q	73	90		70-130	23		30
Dibromomethane	ND	86.4	57	**65**	Q	69	84		70-130	20		30
Styrene	ND	173	76	**44**	Q	130	77		70-130	**50**	Q	30
Dichlorodifluoromethane	ND	86.4	68	79		87	106		30-146	24		30
Acetone	ND	86.4	61	70		73	90		54-140	19		30
Carbon disulfide	ND	86.4	49	**56**	Q	71	86		59-130	**37**	Q	30
2-Butanone	ND	86.4	55	**63**	Q	66	82		70-130	19		30
Vinyl acetate	ND	86.4	17	**20**	Q	31	**38**	Q	70-130	**56**	Q	30
4-Methyl-2-pentanone	ND	86.4	59	**68**	Q	73	90		70-130	22		30
1,2,3-Trichloropropane	ND	86.4	50	**58**	Q	67	82		68-130	29		30
2-Hexanone	ND	86.4	56	**65**	Q	72	88		70-130	25		30
Bromochloromethane	ND	86.4	64	74		76	94		70-130	17		30

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,07-08,10-19 QC Batch ID: WG1614355-6 WG1614355-7 QC Sample: L2210848-01 Client ID: SB010 0-2												
2,2-Dichloropropane	ND	86.4	64	74		83	102		70-130	26		30
1,2-Dibromoethane	ND	86.4	58	**68**	Q	75	92		70-130	25		30
1,3-Dichloropropane	ND	86.4	56	**64**	Q	70	86		69-130	23		30
1,1,1,2-Tetrachloroethane	ND	86.4	57	**65**	Q	80	98		70-130	**34**	Q	30
Bromobenzene	ND	86.4	42	**48**	Q	68	84		70-130	**48**	Q	30
n-Butylbenzene	ND	86.4	28	**32**	Q	64	79		70-130	**78**	Q	30
sec-Butylbenzene	ND	86.4	35	**40**	Q	74	90		70-130	**72**	Q	30
tert-Butylbenzene	ND	86.4	39	**45**	Q	77	95		70-130	**65**	Q	30
o-Chlorotoluene	ND	86.4	36	**41**	Q	65	80		70-130	**58**	Q	30
p-Chlorotoluene	ND	86.4	33	**38**	Q	60	73		70-130	**57**	Q	30
1,2-Dibromo-3-chloropropane	ND	86.4	48	**55**	Q	74	91		68-130	**44**	Q	30
Hexachlorobutadiene	ND	86.4	26	**30**	Q	75	92		67-130	**98**	Q	30
Isopropylbenzene	ND	86.4	42	**49**	Q	75	93		70-130	**56**	Q	30
p-Isopropyltoluene	ND	86.4	34	**40**	Q	72	88		70-130	**71**	Q	30
Naphthalene	ND	86.4	22	**26**	Q	51	**62**	Q	70-130	**79**	Q	30
Acrylonitrile	ND	86.4	58	**67**	Q	69	84		70-130	17		30
n-Propylbenzene	ND	86.4	36	**42**	Q	68	84		70-130	**61**	Q	30
1,2,3-Trichlorobenzene	ND	86.4	19	**22**	Q	45	**56**	Q	70-130	**82**	Q	30
1,2,4-Trichlorobenzene	ND	86.4	19	**22**	Q	45	**55**	Q	70-130	**80**	Q	30
1,3,5-Trimethylbenzene	ND	86.4	37	**43**	Q	70	85		70-130	**61**	Q	30
1,2,4-Trimethylbenzene	ND	86.4	35	**40**	Q	65	80		70-130	**61**	Q	30
1,4-Dioxane	ND	4320	3600	83		3900	96		65-136	9		30
p-Diethylbenzene	ND	86.4	31	**36**	Q	66	81		70-130	**72**	Q	30

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,07-08,10-19 QC Batch ID: WG1614355-6 WG1614355-7 QC Sample: L2210848-01 Client ID: SB010 0-2												
p-Ethyltoluene	ND	86.4	37	**43**	Q	69	85		70-130	**60**	Q	30
1,2,4,5-Tetramethylbenzene	ND	86.4	26	**31**	Q	58	71		70-130	**75**	Q	30
Ethyl ether	ND	86.4	60	69		71	87		67-130	17		30
trans-1,4-Dichloro-2-butene	ND	86.4	42	**48**	Q	55	**67**	Q	70-130	27		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		92		70-130
4-Bromofluorobenzene	91		92		70-130
Dibromofluoromethane	93		93		70-130
Toluene-d8	94		94		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 QC Batch ID: WG1615592-6 WG1615592-7 QC Sample: L2210848-09 Client ID: SB008 0-2												
Methylene chloride	ND	107	70	**65**	Q	86	92		70-130	21		30
1,1-Dichloroethane	ND	107	64	**60**	Q	94	100		70-130	**38**	Q	30
Chloroform	ND	107	55	**51**	Q	89	95		70-130	**48**	Q	30
Carbon tetrachloride	ND	107	45	**42**	Q	91	97		70-130	**68**	Q	30
1,2-Dichloropropane	ND	107	49	**46**	Q	91	97		70-130	**60**	Q	30
Dibromochloromethane	ND	107	55	**51**	Q	92	98		70-130	**50**	Q	30
1,1,2-Trichloroethane	ND	107	63	**59**	Q	94	100		70-130	**40**	Q	30
Tetrachloroethene	ND	107	32	**30**	Q	83	89		70-130	**90**	Q	30
Chlorobenzene	ND	107	32	**30**	Q	83	88		70-130	**89**	Q	30
Trichlorofluoromethane	ND	107	85	79		99	106		70-139	16		30
1,2-Dichloroethane	ND	107	62	**58**	Q	89	95		70-130	**36**	Q	30
1,1,1-Trichloroethane	ND	107	50	**47**	Q	94	100		70-130	**61**	Q	30
Bromodichloromethane	ND	107	49	**45**	Q	90	95		70-130	**59**	Q	30
trans-1,3-Dichloropropene	ND	107	55	**51**	Q	97	103		70-130	**55**	Q	30
cis-1,3-Dichloropropene	ND	107	45	**42**	Q	95	102		70-130	**71**	Q	30
1,1-Dichloropropene	ND	107	43	**40**	Q	95	101		70-130	**75**	Q	30
Bromoform	ND	107	58	**54**	Q	87	93		70-130	**40**	Q	30
1,1,2,2-Tetrachloroethane	ND	107	59	**55**	Q	85	90		70-130	**35**	Q	30
Benzene	ND	107	47	**44**	Q	93	99		70-130	**66**	Q	30
Toluene	ND	107	39	**36**	Q	92	97		70-130	**81**	Q	30
Ethylbenzene	ND	107	28	**26**	Q	86	92		70-130	**103**	Q	30
Chloromethane	ND	107	96	89		94	100		52-130	2		30
Bromomethane	ND	107	78	72		90	96		57-147	15		30

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 QC Batch ID: WG1615592-6 WG1615592-7 QC Sample: L2210848-09 Client ID: SB008 0-2												
Vinyl chloride	ND	107	91	85		99	105		67-130	8		30
Chloroethane	ND	107	93	87		110	115		50-151	15		30
1,1-Dichloroethene	ND	107	69	65		98	104		65-135	**34**	Q	30
trans-1,2-Dichloroethene	ND	107	56	**52**	Q	90	96		70-130	**47**	Q	30
Trichloroethene	ND	107	39	**37**	Q	87	93		70-130	**76**	Q	30
1,2-Dichlorobenzene	ND	107	26	**24**	Q	60	**64**	Q	70-130	**80**	Q	30
1,3-Dichlorobenzene	ND	107	24	**22**	Q	62	**66**	Q	70-130	**88**	Q	30
1,4-Dichlorobenzene	ND	107	23	**22**	Q	60	**64**	Q	70-130	**89**	Q	30
Methyl tert butyl ether	ND	107	82	77		90	96		66-130	9		30
p/m-Xylene	ND	214	57	**26**	Q	180	95		70-130	**103**	Q	30
o-Xylene	ND	214	58	**27**	Q	180	95		70-130	**102**	Q	30
cis-1,2-Dichloroethene	ND	107	54	**50**	Q	89	94		70-130	**48**	Q	30
Dibromomethane	ND	107	57	**53**	Q	88	94		70-130	**43**	Q	30
Styrene	ND	214	55	**26**	Q	160	87		70-130	**99**	Q	30
Dichlorodifluoromethane	ND	107	100	96		89	95		30-146	14		30
Acetone	ND	107	130	117		100	108		54-140	21		30
Carbon disulfide	ND	107	60	**56**	Q	92	98		59-130	**43**	Q	30
2-Butanone	ND	107	100	97		95	101		70-130	9		30
Vinyl acetate	ND	107	23	**21**	Q	39	**41**	Q	70-130	**51**	Q	30
4-Methyl-2-pentanone	ND	107	82	77		90	96		70-130	9		30
1,2,3-Trichloropropane	ND	107	63	**59**	Q	89	94		68-130	**33**	Q	30
2-Hexanone	ND	107	89	83		100	111		70-130	16		30
Bromochloromethane	ND	107	64	**60**	Q	88	94		70-130	**32**	Q	30

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 QC Batch ID: WG1615592-6 WG1615592-7 QC Sample: L2210848-09 Client ID: SB008 0-2												
2,2-Dichloropropane	ND	107	57	**53**	Q	94	100		70-130	**49**	Q	30
1,2-Dibromoethane	ND	107	58	**54**	Q	94	100		70-130	**48**	Q	30
1,3-Dichloropropane	ND	107	59	**55**	Q	95	101		69-130	**47**	Q	30
1,1,1,2-Tetrachloroethane	ND	107	40	**38**	Q	90	96		70-130	**76**	Q	30
Bromobenzene	ND	107	31	**28**	Q	73	78		70-130	**82**	Q	30
n-Butylbenzene	ND	107	17	**16**	Q	56	**60**	Q	70-130	**106**	Q	30
sec-Butylbenzene	ND	107	18	**17**	Q	57	**61**	Q	70-130	**105**	Q	30
tert-Butylbenzene	ND	107	21	**20**	Q	69	73		70-130	**107**	Q	30
o-Chlorotoluene	ND	107	26	**24**	Q	73	78		70-130	**94**	Q	30
p-Chlorotoluene	ND	107	24	**23**	Q	71	76		70-130	**98**	Q	30
1,2-Dibromo-3-chloropropane	ND	107	64	**60**	Q	81	86		68-130	22		30
Hexachlorobutadiene	ND	107	15	**14**	Q	35	**37**	Q	67-130	**77**	Q	30
Isopropylbenzene	ND	107	25	**23**	Q	78	83		70-130	**103**	Q	30
p-Isopropyltoluene	ND	107	16	**15**	Q	55	**59**	Q	70-130	**108**	Q	30
Naphthalene	2.0J	107	28	**26**	Q	45	**47**	Q	70-130	**47**	Q	30
Acrylonitrile	ND	107	100	96		91	97		70-130	12		30
n-Propylbenzene	ND	107	22	**21**	Q	72	76		70-130	**106**	Q	30
1,2,3-Trichlorobenzene	ND	107	22	**21**	Q	33	**35**	Q	70-130	**40**	Q	30
1,2,4-Trichlorobenzene	ND	107	20	**18**	Q	36	**38**	Q	70-130	**59**	Q	30
1,3,5-Trimethylbenzene	ND	107	23	**22**	Q	71	76		70-130	**101**	Q	30
1,2,4-Trimethylbenzene	ND	107	23	**22**	Q	71	76		70-130	**102**	Q	30
1,4-Dioxane	ND	5360	4600	85		4000	86		65-136	13		30
p-Diethylbenzene	ND	107	16	**15**	Q	57	**61**	Q	70-130	**113**	Q	30

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 QC Batch ID: WG1615592-6 WG1615592-7 QC Sample: L2210848-09 Client ID: SB008 0-2												
p-Ethyltoluene	ND	107	22	**21**	Q	73	78		70-130	**107**	Q	30
1,2,4,5-Tetramethylbenzene	0.78J	107	17	**16**	Q	47	**50**	Q	70-130	**94**	Q	30
Ethyl ether	ND	107	81	76		88	94		67-130	8		30
trans-1,4-Dichloro-2-butene	ND	107	59	**55**	Q	87	93		70-130	**40**	Q	30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		106		70-130
4-Bromofluorobenzene	103		99		70-130
Dibromofluoromethane	103		99		70-130
Toluene-d8	114		103		70-130

SEMIVOLATILES

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-01
Client ID: SB010 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:20
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/19/22 19:48
Analyst: CMM
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 03/18/22 18:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	24	J	ug/kg	140	19.	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
Fluoranthene	700		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	25	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	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: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-01 Date Collected: 03/01/22 12:20

Client ID: SB010 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

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	300		ug/kg	110	20.	1
Benzo(a)pyrene	360		ug/kg	140	44.	1
Benzo(b)fluoranthene	460		ug/kg	110	30.	1
Benzo(k)fluoranthene	160		ug/kg	110	29.	1
Chrysene	370		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	70	J	ug/kg	110	35.	1
Benzo(ghi)perylene	330		ug/kg	140	21.	1
Fluorene	20	J	ug/kg	180	17.	1
Phenanthrene	360		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	58	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	310		ug/kg	140	25.	1
Pyrene	600		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	23.	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	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	22.	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	ND		ug/kg	260	28.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-01 Date Collected: 03/01/22 12:20

Client ID: SB010 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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	45	J	ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	68		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-01
Client ID: SB010 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:20
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/18/22 17:31
Analyst: RS
Percent Solids: 92%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.482	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.482	0.044	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.241	0.038	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.482	0.051	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.241	0.044	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.241	0.058	1
Perfluorooctanoic Acid (PFOA)	0.070	J	ng/g	0.241	0.040	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.482	0.173	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.482	0.132	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.241	0.072	1
Perfluorooctanesulfonic Acid (PFOS)	0.158	J	ng/g	0.241	0.125	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.241	0.065	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.482	0.277	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.482	0.194	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.482	0.045	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.482	0.148	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.482	0.082	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.482	0.068	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.482	0.197	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.482	0.052	1
PFOA/PFOS, Total	0.228	J	ng/g	0.241	0.040	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-01 Date Collected: 03/01/22 12:20

Client ID: SB010 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	94		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	99		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	112		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	91		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	111		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	85		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	109		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	102		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	92		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	67		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	73		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	82		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-01
Client ID: SB010 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:20
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/19/22 16:43
Analyst: SG
Percent Solids: 92%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.482	0.095	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**120**	Q	10-117

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-02
Client ID: SB008 12-14
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 03:31
Analyst: IM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 16:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-02 Date Collected: 03/01/22 15:10

Client ID: SB008 12-14 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	24.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	900	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-02 Date Collected: 03/01/22 15:10

Client ID: SB008 12-14 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		25-120
Phenol-d6	51		10-120
Nitrobenzene-d5	48		23-120
2-Fluorobiphenyl	51		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	41		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-02
Client ID: SB008 12-14
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/18/22 18:20
Analyst: RS
Percent Solids: 88%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.515	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.515	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.257	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.515	0.054	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.257	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.257	0.062	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.257	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.515	0.185	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.515	0.140	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.257	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.257	0.134	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.257	0.069	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.515	0.295	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.515	0.207	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.515	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.515	0.158	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.515	0.087	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.515	0.072	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.515	0.210	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.515	0.056	1
PFOA/PFOS, Total	ND		ng/g	0.257	0.043	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-02 Date Collected: 03/01/22 15:10

Client ID: SB008 12-14 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	99		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	100		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	107		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	71		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	99		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	86		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	31		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	41		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	98		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	79		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-02
Client ID: SB008 12-14
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/19/22 16:50
Analyst: SG
Percent Solids: 88%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.515	0.101	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**121**	Q	10-117

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-03
Client ID: SB006 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 00:42
Analyst: IM
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 16:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		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	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		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	ND		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	89	J	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: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-03 Date Collected: 03/01/22 13:25

Client ID: SB006 4-6 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	23.	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	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		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	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	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

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-03 Date Collected: 03/01/22 13:25

Client ID: SB006 4-6 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	93		10-136
4-Terphenyl-d14	77		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-03
Client ID: SB006 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/18/22 18:37
Analyst: RS
Percent Solids: 92%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.520	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.520	0.048	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.260	0.041	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.520	0.055	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.260	0.047	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.260	0.063	1
Perfluorooctanoic Acid (PFOA)	0.069	JF	ng/g	0.260	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.520	0.187	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.520	0.142	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.260	0.078	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.260	0.135	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.260	0.070	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.520	0.298	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.520	0.210	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.520	0.049	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.520	0.159	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.520	0.088	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.520	0.073	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.520	0.213	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.520	0.056	1
PFOA/PFOS, Total	0.069	J	ng/g	0.260	0.044	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-03 Date Collected: 03/01/22 13:25

Client ID: SB006 4-6 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	85		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	83		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	87		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	66		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	86		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	92		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	61		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**20**	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	79		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**15**	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	75		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	38		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-03
Client ID: SB006 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/19/22 16:58
Analyst: SG
Percent Solids: 92%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.520	0.102	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**124**	Q	10-117

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-04
Client ID: SB006 3-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 01:54
Analyst: IM
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 16:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		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	30.	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	30.	1
Fluoranthene	56	J	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	ND		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	27.	1
Bis(2-ethylhexyl)phthalate	72	J	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	60.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-04 Date Collected: 03/01/22 13:15

Client ID: SB006 3-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	29	J	ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	24	J	ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	41	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	47	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	23.	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	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	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	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	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

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-04 Date Collected: 03/01/22 13:15

Client ID: SB006 3-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	56		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-04
Client ID: SB006 3-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/18/22 18:54
Analyst: RS
Percent Solids: 91%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.515	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.515	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.257	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.515	0.054	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.257	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.257	0.062	1
Perfluorooctanoic Acid (PFOA)	0.080	JF	ng/g	0.257	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.515	0.185	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.515	0.140	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.257	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.257	0.134	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.257	0.069	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.515	0.296	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.515	0.207	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.515	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.515	0.158	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.515	0.087	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.515	0.072	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.515	0.210	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.515	0.056	1
PFOA/PFOS, Total	0.080	J	ng/g	0.257	0.043	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-04 Date Collected: 03/01/22 13:15

Client ID: SB006 3-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	91		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	87		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	70		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	71		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	34		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	37		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	87		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	59		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-04
Client ID: SB006 3-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/19/22 17:05
Analyst: SG
Percent Solids: 91%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.515	0.101	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**119**	Q	10-117

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-05
Client ID: SB007 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:55
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 01:06
Analyst: IM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 16:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	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	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	ND		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	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	180	23.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	47.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-05 Date Collected: 03/01/22 13:55

Client ID: SB007 3-5 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

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	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	77.	1
Dibenzofuran	ND		ug/kg	180	18.	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	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-05 Date Collected: 03/01/22 13:55

Client ID: SB007 3-5 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	81		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-05
Client ID: SB007 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:55
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/18/22 19:10
Analyst: RS
Percent Solids: 88%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.504	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.504	0.046	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.252	0.039	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.504	0.053	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.252	0.045	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.252	0.061	1
Perfluorooctanoic Acid (PFOA)	0.066	JF	ng/g	0.252	0.042	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.504	0.181	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.504	0.138	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.252	0.076	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.252	0.131	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.252	0.068	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.504	0.289	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.504	0.203	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.504	0.047	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.504	0.154	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.504	0.085	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.504	0.071	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.504	0.206	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.504	0.054	1
PFOA/PFOS, Total	0.066	J	ng/g	0.252	0.042	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-05 Date Collected: 03/01/22 13:55

Client ID: SB007 3-5 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	93		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	106		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	76		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	79		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	49		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	93		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	56		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	90		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	70		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-05
Client ID: SB007 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:55
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/19/22 17:12
Analyst: SG
Percent Solids: 88%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.504	0.099	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**120**	Q	10-117

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-06
Client ID: SB007 7-9
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 14:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/18/22 19:27
Analyst: RS
Percent Solids: 85%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 10:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.534	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.534	0.049	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.267	0.042	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.534	0.056	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.267	0.048	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.267	0.065	1
Perfluorooctanoic Acid (PFOA)	0.463		ng/g	0.267	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.534	0.192	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.534	0.146	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.267	0.080	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.267	0.139	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.267	0.072	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.534	0.307	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.534	0.215	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.534	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.534	0.163	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.534	0.090	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.534	0.075	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.534	0.218	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.534	0.058	1
PFOA/PFOS, Total	0.463		ng/g	0.267	0.045	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-06 Date Collected: 03/01/22 14:00

Client ID: SB007 7-9 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	98		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	104		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	106		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	99		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	92		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	106		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	62		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	99		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	76		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-06
Client ID: SB007 7-9
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 14:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/19/22 17:19
Analyst: SG
Percent Solids: 85%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 10:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.534	0.105	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	113		10-117

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-06 D
Client ID: SB007 7-9
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 14:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/18/22 12:05
Analyst: JG
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 16:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1700		ug/kg	770	99.	5
1,2,4-Trichlorobenzene	ND		ug/kg	960	110	5
Hexachlorobenzene	ND		ug/kg	580	110	5
Bis(2-chloroethyl)ether	ND		ug/kg	860	130	5
2-Chloronaphthalene	ND		ug/kg	960	95.	5
1,2-Dichlorobenzene	ND		ug/kg	960	170	5
1,3-Dichlorobenzene	ND		ug/kg	960	160	5
1,4-Dichlorobenzene	ND		ug/kg	960	170	5
3,3'-Dichlorobenzidine	ND		ug/kg	960	260	5
2,4-Dinitrotoluene	ND		ug/kg	960	190	5
2,6-Dinitrotoluene	ND		ug/kg	960	160	5
Fluoranthene	130	J	ug/kg	580	110	5
4-Chlorophenyl phenyl ether	ND		ug/kg	960	100	5
4-Bromophenyl phenyl ether	ND		ug/kg	960	150	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1200	160	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	96.	5
Hexachlorobutadiene	ND		ug/kg	960	140	5
Hexachlorocyclopentadiene	ND		ug/kg	2700	870	5
Hexachloroethane	ND		ug/kg	770	160	5
Isophorone	ND		ug/kg	860	120	5
Naphthalene	5200		ug/kg	960	120	5
Nitrobenzene	ND		ug/kg	860	140	5
NDPA/DPA	ND		ug/kg	770	110	5
n-Nitrosodi-n-propylamine	ND		ug/kg	960	150	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	960	330	5
Butyl benzyl phthalate	ND		ug/kg	960	240	5
Di-n-butylphthalate	ND		ug/kg	960	180	5
Di-n-octylphthalate	ND		ug/kg	960	330	5

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-06 D
Client ID: SB007 7-9
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 14:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	960	89.	5
Dimethyl phthalate	ND		ug/kg	960	200	5
Benzo(a)anthracene	ND		ug/kg	580	110	5
Benzo(a)pyrene	ND		ug/kg	770	230	5
Benzo(b)fluoranthene	ND		ug/kg	580	160	5
Benzo(k)fluoranthene	ND		ug/kg	580	150	5
Chrysene	ND		ug/kg	580	100	5
Acenaphthylene	ND		ug/kg	770	150	5
Anthracene	620		ug/kg	580	190	5
Benzo(ghi)perylene	ND		ug/kg	770	110	5
Fluorene	3100		ug/kg	960	93.	5
Phenanthrene	4800		ug/kg	580	120	5
Dibenzo(a,h)anthracene	ND		ug/kg	580	110	5
Indeno(1,2,3-cd)pyrene	ND		ug/kg	770	130	5
Pyrene	530	J	ug/kg	580	95.	5
Biphenyl	1900	J	ug/kg	2200	120	5
4-Chloroaniline	ND		ug/kg	960	170	5
2-Nitroaniline	ND		ug/kg	960	180	5
3-Nitroaniline	ND		ug/kg	960	180	5
4-Nitroaniline	ND		ug/kg	960	400	5
Dibenzofuran	1200		ug/kg	960	91.	5
2-Methylnaphthalene	29000		ug/kg	1200	120	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	960	100	5
Acetophenone	ND		ug/kg	960	120	5
2,4,6-Trichlorophenol	ND		ug/kg	580	180	5
p-Chloro-m-cresol	ND		ug/kg	960	140	5
2-Chlorophenol	ND		ug/kg	960	110	5
2,4-Dichlorophenol	ND		ug/kg	860	150	5
2,4-Dimethylphenol	ND		ug/kg	960	320	5
2-Nitrophenol	ND		ug/kg	2100	360	5
4-Nitrophenol	ND		ug/kg	1300	390	5
2,4-Dinitrophenol	ND		ug/kg	4600	450	5
4,6-Dinitro-o-cresol	ND		ug/kg	2500	460	5
Pentachlorophenol	ND		ug/kg	770	210	5
Phenol	ND		ug/kg	960	140	5
2-Methylphenol	ND		ug/kg	960	150	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1400	150	5

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-06 D
Client ID: SB007 7-9
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 14:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	960	180	5
Benzoic Acid	ND		ug/kg	3100	970	5
Benzyl Alcohol	ND		ug/kg	960	290	5
Carbazole	ND		ug/kg	960	93.	5
1,4-Dioxane	ND		ug/kg	140	44.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	62		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-07
Client ID: SB007 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 14:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 01:30
Analyst: IM
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 16:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	320		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	32.	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	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		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	1500		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: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-07 Date Collected: 03/01/22 14:05

Client ID: SB007 18-20 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

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	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	94	J	ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	520		ug/kg	180	18.	1
Phenanthrene	940		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	59	J	ug/kg	110	18.	1
Biphenyl	440		ug/kg	420	24.	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	230		ug/kg	180	17.	1
2-Methylnaphthalene	6800		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

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-07 Date Collected: 03/01/22 14:05

Client ID: SB007 18-20 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		25-120
Phenol-d6	48		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	43		30-120
2,4,6-Tribromophenol	43		10-136
4-Terphenyl-d14	46		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-07
Client ID: SB007 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 14:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/18/22 19:43
Analyst: RS
Percent Solids: 90%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 10:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.502	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.502	0.046	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.251	0.039	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.502	0.053	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.251	0.045	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.251	0.061	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.251	0.042	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.502	0.180	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.502	0.137	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.251	0.075	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.251	0.130	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.251	0.067	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.502	0.288	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.502	0.202	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.502	0.047	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.502	0.154	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.502	0.085	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.502	0.070	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.502	0.205	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.502	0.054	1
PFOA/PFOS, Total	ND		ng/g	0.251	0.042	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-07 Date Collected: 03/01/22 14:05

Client ID: SB007 18-20 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	82		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	84		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	76		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	82		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	103		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	73		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	83		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	94		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	61		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	39		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	95		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	46		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	86		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	78		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-07
Client ID: SB007 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 14:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/19/22 17:27
Analyst: SG
Percent Solids: 90%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 10:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.502	0.098	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**120**	Q	10-117

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-08
Client ID: DUP001
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 00:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 00:18
Analyst: IM
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 16:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	180	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	170	29.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-08 Date Collected: 03/01/22 00:00

Client ID: DUP001 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	ND		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	25.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	93.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-08 Date Collected: 03/01/22 00:00

Client ID: DUP001 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	66		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-08
Client ID: DUP001
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 00:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/18/22 20:00
Analyst: RS
Percent Solids: 86%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 10:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.557	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.557	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.278	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.557	0.059	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.278	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.278	0.067	1
Perfluorooctanoic Acid (PFOA)	0.236	J	ng/g	0.278	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.557	0.200	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.557	0.152	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.278	0.084	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.278	0.145	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.278	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.557	0.320	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.557	0.224	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.557	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.557	0.170	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.557	0.094	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.557	0.078	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.557	0.228	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.557	0.060	1
PFOA/PFOS, Total	0.236	J	ng/g	0.278	0.047	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-08 Date Collected: 03/01/22 00:00

Client ID: DUP001 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	114		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	78		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	97		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	84		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	37		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	99		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	44		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	75		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-08
Client ID: DUP001
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 00:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/19/22 17:34
Analyst: SG
Percent Solids: 86%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 10:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.557	0.109	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**119**	Q	10-117

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-09
Client ID: SB008 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 05:07
Analyst: IM
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 16:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		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	30.	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	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	61	J	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	ND		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	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	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	60.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-09 Date Collected: 03/01/22 15:10

Client ID: SB008 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	28	J	ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	32	J	ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	32	J	ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	42	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	52	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	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	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-09 Date Collected: 03/01/22 15:10

Client ID: SB008 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	61		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-09
Client ID: SB008 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/18/22 20:16
Analyst: RS
Percent Solids: 92%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 10:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.513	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.513	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.256	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.513	0.054	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.256	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.256	0.062	1
Perfluorooctanoic Acid (PFOA)	0.069	JF	ng/g	0.256	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.513	0.184	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.513	0.140	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.256	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	0.160	J	ng/g	0.256	0.133	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.256	0.069	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.513	0.294	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.513	0.207	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.513	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.513	0.157	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.513	0.100	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.513	0.087	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.513	0.072	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.513	0.210	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.513	0.055	1
PFOA/PFOS, Total	0.229	J	ng/g	0.256	0.043	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-09 Date Collected: 03/01/22 15:10

Client ID: SB008 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	105		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	97		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	76		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	98		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	96		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	79		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	62		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	55		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	67		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	95		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	81		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-10
Client ID: SB008 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 02:18
Analyst: IM
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 16:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-10 Date Collected: 03/01/22 15:05

Client ID: SB008 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	24.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-10 Date Collected: 03/01/22 15:05

Client ID: SB008 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	62		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-10
Client ID: SB008 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/18/22 21:06
Analyst: RS
Percent Solids: 86%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 10:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.535	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.535	0.049	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.267	0.042	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.535	0.056	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.267	0.048	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.267	0.065	1
Perfluorooctanoic Acid (PFOA)	0.113	J	ng/g	0.267	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.535	0.192	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.535	0.146	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.267	0.080	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.267	0.139	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.267	0.072	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.535	0.307	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.535	0.215	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.535	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.535	0.164	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.535	0.105	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.535	0.090	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.535	0.075	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.535	0.219	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.535	0.058	1
PFOA/PFOS, Total	0.113	J	ng/g	0.267	0.045	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-10 Date Collected: 03/01/22 15:05

Client ID: SB008 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	105		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	108		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	106		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	98		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	100		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	108		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	79		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	98		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	73		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	59		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	96		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	74		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	85		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-11
Client ID: DUP002
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 00:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 05:31
Analyst: IM
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 16:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		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	32.	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	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	270		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	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	64.	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: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-11 Date Collected: 03/01/22 00:00

Client ID: DUP002 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

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	39.	1
Benzo(a)anthracene	160		ug/kg	110	21.	1
Benzo(a)pyrene	180		ug/kg	150	45.	1
Benzo(b)fluoranthene	220		ug/kg	110	31.	1
Benzo(k)fluoranthene	80	J	ug/kg	110	29.	1
Chrysene	190		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	40	J	ug/kg	110	36.	1
Benzo(ghi)perylene	140	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	180		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	32	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	140	J	ug/kg	150	26.	1
Pyrene	220		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	35.	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	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	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

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-11 Date Collected: 03/01/22 00:00

Client ID: DUP002 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	24	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**12**	Q	25-120
Phenol-d6	48		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	**7**	Q	10-136
4-Terphenyl-d14	66		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-11
Client ID: DUP002
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 00:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/18/22 21:39
Analyst: RS
Percent Solids: 89%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 10:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.522	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.522	0.048	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.261	0.041	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.522	0.055	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.261	0.047	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.261	0.063	1
Perfluorooctanoic Acid (PFOA)	0.133	JF	ng/g	0.261	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.522	0.188	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.522	0.143	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.261	0.078	1
Perfluorooctanesulfonic Acid (PFOS)	0.173	J	ng/g	0.261	0.136	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.261	0.070	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.522	0.300	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.522	0.210	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.522	0.049	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.522	0.160	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.522	0.102	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.522	0.088	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.522	0.073	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.522	0.214	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.522	0.056	1
PFOA/PFOS, Total	0.306	J	ng/g	0.261	0.044	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-11 Date Collected: 03/01/22 00:00

Client ID: DUP002 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	72		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	75		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	69		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	74		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	76		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	48		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	76		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	78		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	45		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	31		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	82		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	74		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	34		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	83		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	74		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-11 RE
Client ID: DUP002
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 00:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/18/22 13:29
Analyst: CMM
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 03/17/22 19:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	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	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	410		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	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	76	J	ug/kg	180	47.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-11 RE
Client ID: DUP002
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 00:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:

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	39.	1
Benzo(a)anthracene	220		ug/kg	110	21.	1
Benzo(a)pyrene	250		ug/kg	150	45.	1
Benzo(b)fluoranthene	320		ug/kg	110	31.	1
Benzo(k)fluoranthene	86	J	ug/kg	110	30.	1
Chrysene	220		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	51	J	ug/kg	110	36.	1
Benzo(ghi)perylene	200		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	210		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	36	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	200		ug/kg	150	26.	1
Pyrene	350		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	77.	1
Dibenzofuran	ND		ug/kg	180	18.	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	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-11 RE
Client ID: DUP002
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 00:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	27	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**11**	Q	25-120
Phenol-d6	38		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	13		10-136
4-Terphenyl-d14	60		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-12
Client ID: SB008 2-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 03:55
Analyst: IM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 16:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	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	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	ND		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	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	180	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	47.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-12 Date Collected: 03/01/22 15:15

Client ID: SB008 2-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

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	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	77.	1
Dibenzofuran	ND		ug/kg	180	18.	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	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-12 Date Collected: 03/01/22 15:15

Client ID: SB008 2-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	49		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-12
Client ID: SB008 2-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/18/22 21:56
Analyst: RS
Percent Solids: 88%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 10:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.522	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.522	0.048	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.261	0.041	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.522	0.055	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.261	0.047	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.261	0.063	1
Perfluorooctanoic Acid (PFOA)	0.236	J	ng/g	0.261	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.522	0.187	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.522	0.142	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.261	0.078	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.261	0.136	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.261	0.070	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.522	0.300	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.522	0.210	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.522	0.049	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.522	0.160	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.522	0.102	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.522	0.088	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.522	0.073	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.522	0.213	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.522	0.056	1
PFOA/PFOS, Total	0.236	J	ng/g	0.261	0.044	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-12 Date Collected: 03/01/22 15:15

Client ID: SB008 2-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	101		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	107		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	94		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	99		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	108		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	101		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	78		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	98		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	109		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	102		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	73		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	52		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	92		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	62		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	80		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-13
Client ID: SB005 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:20
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 07:08
Analyst: IM
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 16:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	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	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	240		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	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	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	64.	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	63.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-13 Date Collected: 03/01/22 17:20

Client ID: SB005 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

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	39.	1
Benzo(a)anthracene	150		ug/kg	110	21.	1
Benzo(a)pyrene	150		ug/kg	150	45.	1
Benzo(b)fluoranthene	190		ug/kg	110	31.	1
Benzo(k)fluoranthene	58	J	ug/kg	110	30.	1
Chrysene	160		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	160		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	130		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	32	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	140	J	ug/kg	150	26.	1
Pyrene	200		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	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	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-13 Date Collected: 03/01/22 17:20

Client ID: SB005 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	19	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**5**	Q	25-120
Phenol-d6	33		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	**4**	Q	10-136
4-Terphenyl-d14	52		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-13
Client ID: SB005 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:20
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/18/22 22:12
Analyst: RS
Percent Solids: 89%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 10:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.520	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.520	0.048	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.260	0.041	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.520	0.055	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.260	0.047	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.260	0.063	1
Perfluorooctanoic Acid (PFOA)	0.120	JF	ng/g	0.260	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.520	0.186	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.520	0.142	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.260	0.078	1
Perfluorooctanesulfonic Acid (PFOS)	0.200	J	ng/g	0.260	0.135	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.260	0.070	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.520	0.298	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.520	0.209	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.520	0.049	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.520	0.159	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.520	0.102	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.520	0.088	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.520	0.073	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.520	0.212	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.520	0.056	1
PFOA/PFOS, Total	0.320	J	ng/g	0.260	0.044	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-13 Date Collected: 03/01/22 17:20

Client ID: SB005 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	69		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	71		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	87		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	66		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	71		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	**71**	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	43		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	73		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	91		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	**73**	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	49		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**23**	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	76		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	67		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**32**	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	73		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	71		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-13 RE
Client ID: SB005 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:20
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/18/22 13:52
Analyst: CMM
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 03/17/22 19:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	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	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	210		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	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	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	64.	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	63.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-13 RE
Client ID: SB005 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:20
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:

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	39.	1
Benzo(a)anthracene	98	J	ug/kg	110	21.	1
Benzo(a)pyrene	100	J	ug/kg	150	45.	1
Benzo(b)fluoranthene	120		ug/kg	110	31.	1
Benzo(k)fluoranthene	42	J	ug/kg	110	30.	1
Chrysene	99	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	68	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	130		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	78	J	ug/kg	150	26.	1
Pyrene	180		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	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	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-13 RE
Client ID: SB005 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:20
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**17**	Q	25-120
Phenol-d6	43		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	20		10-136
4-Terphenyl-d14	54		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-14
Client ID: SB001 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 08:20
Analyst: IM
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 16:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	170		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	610		ug/kg	170	60.	1
Butyl benzyl phthalate	480		ug/kg	170	44.	1
Di-n-butylphthalate	110	J	ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-14 Date Collected: 03/01/22 16:05

Client ID: SB001 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	100		ug/kg	100	20.	1
Benzo(a)pyrene	89	J	ug/kg	140	42.	1
Benzo(b)fluoranthene	100		ug/kg	100	29.	1
Benzo(k)fluoranthene	46	J	ug/kg	100	28.	1
Chrysene	100		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	34	J	ug/kg	100	34.	1
Benzo(ghi)perylene	59	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	130		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	48	J	ug/kg	140	24.	1
Pyrene	160		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	22.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	830	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-14 Date Collected: 03/01/22 16:05

Client ID: SB001 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	8.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**3**	Q	25-120
Phenol-d6	22		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	**2**	Q	10-136
4-Terphenyl-d14	50		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-14
Client ID: SB001 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/18/22 22:29
Analyst: RS
Percent Solids: 95%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 10:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.484	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.484	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.242	0.038	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.484	0.051	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.242	0.044	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.242	0.059	1
Perfluorooctanoic Acid (PFOA)	0.424		ng/g	0.242	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.484	0.174	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.484	0.132	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.242	0.073	1
Perfluorooctanesulfonic Acid (PFOS)	0.555		ng/g	0.242	0.126	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.242	0.065	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.484	0.278	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.484	0.195	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.484	0.045	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.484	0.148	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.484	0.095	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.484	0.082	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.484	0.068	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.484	0.198	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.484	0.052	1
PFOA/PFOS, Total	0.979		ng/g	0.242	0.041	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-14 Date Collected: 03/01/22 16:05

Client ID: SB001 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	82		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	85		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	101		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	78		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	84		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	85		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	59		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	84		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	84		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	71		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	34		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	86		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	78		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	52		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	86		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	76		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-14 RE
Client ID: SB001 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/23/22 10:03
Analyst: IM
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 03/22/22 15:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	180		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	260		ug/kg	170	59.	1
Butyl benzyl phthalate	440		ug/kg	170	43.	1
Di-n-butylphthalate	78	J	ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-14 RE
Client ID: SB001 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	110		ug/kg	100	19.	1
Benzo(a)pyrene	100	J	ug/kg	140	42.	1
Benzo(b)fluoranthene	130		ug/kg	100	29.	1
Benzo(k)fluoranthene	39	J	ug/kg	100	27.	1
Chrysene	92	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	83	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	96	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	70	J	ug/kg	140	24.	1
Pyrene	170		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	22.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-14 RE
Client ID: SB001 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	52	J	ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**0**	Q	25-120
Phenol-d6	**4**	Q	10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	93		30-120
2,4,6-Tribromophenol	**2**	Q	10-136
4-Terphenyl-d14	82		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-15
Client ID: SB001 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 07:32
Analyst: IM
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 16:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	150		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	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	1500		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	120	J	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	190		ug/kg	180	63.	1
Butyl benzyl phthalate	280		ug/kg	180	46.	1
Di-n-butylphthalate	45	J	ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-15 Date Collected: 03/01/22 16:10

Client ID: SB001 4-6 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

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	910		ug/kg	110	21.	1
Benzo(a)pyrene	1100		ug/kg	150	45.	1
Benzo(b)fluoranthene	1000		ug/kg	110	31.	1
Benzo(k)fluoranthene	280		ug/kg	110	29.	1
Chrysene	950		ug/kg	110	19.	1
Acenaphthylene	83	J	ug/kg	150	28.	1
Anthracene	400		ug/kg	110	36.	1
Benzo(ghi)perylene	800		ug/kg	150	22.	1
Fluorene	110	J	ug/kg	180	18.	1
Phenanthrene	1400		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	150		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	550		ug/kg	150	26.	1
Pyrene	1400		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	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	100	J	ug/kg	180	17.	1
2-Methylnaphthalene	61	J	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

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-15 Date Collected: 03/01/22 16:10

Client ID: SB001 4-6 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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	150	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**18**	Q	25-120
Phenol-d6	54		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	**3**	Q	10-136
4-Terphenyl-d14	58		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-15
Client ID: SB001 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/18/22 22:46
Analyst: RS
Percent Solids: 90%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 10:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.025	J	ng/g	0.510	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.510	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.255	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.510	0.054	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.255	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.255	0.062	1
Perfluorooctanoic Acid (PFOA)	0.358		ng/g	0.255	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.510	0.183	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.510	0.139	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.255	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	0.356		ng/g	0.255	0.133	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.255	0.068	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.510	0.293	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.510	0.206	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.510	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.510	0.156	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.510	0.100	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.510	0.086	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.510	0.071	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.510	0.209	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.510	0.055	1
PFOA/PFOS, Total	0.714		ng/g	0.255	0.043	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-15 Date Collected: 03/01/22 16:10

Client ID: SB001 4-6 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	86		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	107		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	90		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	69		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	91		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	76		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	44		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	99		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	64		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	63		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	91		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	90		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-15 RE
Client ID: SB001 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/18/22 14:16
Analyst: CMM
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 03/17/22 19:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	57	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	820		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	42	J	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	96	J	ug/kg	180	63.	1
Butyl benzyl phthalate	160	J	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: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-15 RE
Client ID: SB001 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:

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	450		ug/kg	110	20.	1
Benzo(a)pyrene	630		ug/kg	150	45.	1
Benzo(b)fluoranthene	530		ug/kg	110	31.	1
Benzo(k)fluoranthene	170		ug/kg	110	29.	1
Chrysene	500		ug/kg	110	19.	1
Acenaphthylene	60	J	ug/kg	150	28.	1
Anthracene	160		ug/kg	110	36.	1
Benzo(ghi)perylene	670		ug/kg	150	22.	1
Fluorene	53	J	ug/kg	180	18.	1
Phenanthrene	580		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	96	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	320		ug/kg	150	25.	1
Pyrene	720		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	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	41	J	ug/kg	180	17.	1
2-Methylnaphthalene	26	J	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	390	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

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-15 RE
Client ID: SB001 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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	62	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	28		25-120
Phenol-d6	48		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	57		30-120
2,4,6-Tribromophenol	14		10-136
4-Terphenyl-d14	53		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-16
Client ID: SB005 8-10
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 07:56
Analyst: IM
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 16:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	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	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	69	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	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	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	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	140	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	94	J	ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-16 Date Collected: 03/01/22 17:25

Client ID: SB005 8-10 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

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	41	J	ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	40	J	ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	37	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	30	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	63	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	58	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	24.	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	75.	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	22.	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	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	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	ND		ug/kg	260	28.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-16 Date Collected: 03/01/22 17:25

Client ID: SB005 8-10 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	30		10-136
4-Terphenyl-d14	51		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-16
Client ID: SB005 8-10
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/18/22 23:02
Analyst: RS
Percent Solids: 89%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 10:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.520	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.520	0.048	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.260	0.041	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.520	0.055	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.260	0.047	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.260	0.063	1
Perfluorooctanoic Acid (PFOA)	0.335		ng/g	0.260	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.520	0.187	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.520	0.142	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.260	0.078	1
Perfluorooctanesulfonic Acid (PFOS)	0.761		ng/g	0.260	0.135	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.260	0.070	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.520	0.298	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.520	0.210	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.520	0.049	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.520	0.159	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.520	0.102	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.520	0.088	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.520	0.073	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.520	0.213	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.520	0.056	1
PFOA/PFOS, Total	1.10		ng/g	0.260	0.044	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-16 Date Collected: 03/01/22 17:25

Client ID: SB005 8-10 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	98		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	102		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	104		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	93		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	108		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	76		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	82		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	54		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	58		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	68		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	98		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	91		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-17
Client ID: SB002 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:45
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/16/22 23:53
Analyst: IM
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 16:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	180	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	170	29.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-17 Date Collected: 03/01/22 15:45

Client ID: SB002 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	63	J	ug/kg	190	41.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	ND		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	25.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	93.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-17 Date Collected: 03/01/22 15:45

Client ID: SB002 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	67		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-17
Client ID: SB002 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:45
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/18/22 23:19
Analyst: RS
Percent Solids: 86%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 10:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.543	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.543	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.272	0.042	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.543	0.057	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.272	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.272	0.066	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.272	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.543	0.195	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.543	0.148	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.272	0.082	1
Perfluorooctanesulfonic Acid (PFOS)	0.149	J	ng/g	0.272	0.141	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.272	0.073	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.543	0.312	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.543	0.219	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.543	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.543	0.166	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.543	0.092	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.543	0.076	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.543	0.222	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.543	0.059	1
PFOA/PFOS, Total	0.149	J	ng/g	0.272	0.046	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-17 Date Collected: 03/01/22 15:45

Client ID: SB002 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	80		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	84		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	101		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	78		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	83		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	104		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	67		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	84		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	86		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	74		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**7**	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	87		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**12**	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	82		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	56		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-17
Client ID: SB002 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:45
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/19/22 17:41
Analyst: SG
Percent Solids: 86%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 10:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.543	0.106	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	117		10-117

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-17 RE
Client ID: SB002 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:45
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/21/22 01:27
Analyst: SG
Percent Solids: 86%

Extraction Method: ALPHA 23528
Extraction Date: 03/20/22 11:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	2.03	0.817	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**7**	Q	31-134

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-18
Client ID: SB004 2-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 03:07
Analyst: IM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 16:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	29	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-18 Date Collected: 03/01/22 17:05

Client ID: SB004 2-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	21	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	19	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	26	J	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	25	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	430	24.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	900	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-18 Date Collected: 03/01/22 17:05

Client ID: SB004 2-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	69		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-18
Client ID: SB004 2-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/18/22 23:35
Analyst: RS
Percent Solids: 87%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 10:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.048	J	ng/g	0.551	0.025	1
Perfluoropentanoic Acid (PFPeA)	0.089	J	ng/g	0.551	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.276	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.551	0.058	1
Perfluoroheptanoic Acid (PFHpA)	0.053	J	ng/g	0.276	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.276	0.067	1
Perfluorooctanoic Acid (PFOA)	0.157	J	ng/g	0.276	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.551	0.198	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.551	0.150	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.276	0.083	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.276	0.143	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.276	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.551	0.316	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.551	0.222	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.551	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.551	0.169	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.551	0.108	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.551	0.093	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.551	0.077	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.551	0.226	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.551	0.060	1
PFOA/PFOS, Total	0.157	J	ng/g	0.276	0.046	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-18 Date Collected: 03/01/22 17:05

Client ID: SB004 2-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	104		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	108		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	99		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	103		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	113		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	80		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	105		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	110		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	102		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	94		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	58		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	112		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	19		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	70		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	103		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-19
Client ID: SB002 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/16/22 23:29
Analyst: IM
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 16:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		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	30.	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	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	ND		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	ND		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	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	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	60.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-19 Date Collected: 03/01/22 16:05

Client ID: SB002 18-20 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	ND		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	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	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-19 Date Collected: 03/01/22 16:05

Client ID: SB002 18-20 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	78		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-19
Client ID: SB002 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/18/22 23:52
Analyst: RS
Percent Solids: 92%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 10:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.485	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.485	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.242	0.038	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.485	0.051	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.242	0.044	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.242	0.059	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.242	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.485	0.174	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.485	0.132	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.242	0.073	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.242	0.126	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.242	0.065	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.485	0.278	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.485	0.195	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.485	0.045	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.485	0.148	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.485	0.095	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.485	0.082	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.485	0.068	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.485	0.198	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.485	0.052	1
PFOA/PFOS, Total	ND		ng/g	0.242	0.041	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-19 Date Collected: 03/01/22 16:05

Client ID: SB002 18-20 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	97		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	104		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	91		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	96		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	74		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	96		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	99		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	83		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**24**	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	21		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	36		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	78		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-20
Client ID: SB003 15-17
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 01:43
Analyst: SZ
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 07:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	30.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	ND		ug/kg	100	19.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	480	150	1
Hexachloroethane	ND		ug/kg	140	27.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-20 Date Collected: 03/01/22 12:30

Client ID: SB003 15-17 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	41.	1
Benzo(b)fluoranthene	ND		ug/kg	100	28.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	22.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	70.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	69.	1
2,4-Dinitrophenol	ND		ug/kg	810	79.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	81.	1
Pentachlorophenol	ND		ug/kg	140	37.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-20 Date Collected: 03/01/22 12:30

Client ID: SB003 15-17 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	32.	1
Benzoic Acid	ND		ug/kg	550	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	16.	1
1,4-Dioxane	ND		ug/kg	25	7.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	73		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-20
Client ID: SB003 15-17
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/19/22 00:08
Analyst: RS
Percent Solids: 96%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 10:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.479	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.479	0.044	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.240	0.037	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.479	0.050	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.240	0.043	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.240	0.058	1
Perfluorooctanoic Acid (PFOA)	0.078	J	ng/g	0.240	0.040	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.479	0.172	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.479	0.131	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.240	0.072	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.240	0.124	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.240	0.064	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.479	0.275	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.479	0.193	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.479	0.045	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.479	0.146	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.479	0.081	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.479	0.067	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.479	0.196	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.479	0.052	1
PFOA/PFOS, Total	0.078	J	ng/g	0.240	0.040	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-20 Date Collected: 03/01/22 12:30

Client ID: SB003 15-17 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	91		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	100		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	72		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	98		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	87		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	62		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**20**	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	90		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**24**	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	79		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	47		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-20
Client ID: SB003 15-17
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/19/22 17:48
Analyst: SG
Percent Solids: 96%

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 10:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.479	0.094	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	114		10-117

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-21
Client ID: SB011 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/16/22 02:20
Analyst: HT
Percent Solids: 88%

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.542	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.542	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.271	0.042	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.542	0.057	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.271	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.271	0.066	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.271	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.542	0.195	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.542	0.148	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.271	0.081	1
Perfluorooctanesulfonic Acid (PFOS)	0.311		ng/g	0.271	0.141	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.271	0.073	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.542	0.311	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.542	0.218	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.542	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.542	0.166	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.542	0.092	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.542	0.076	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.542	0.222	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.542	0.059	1
PFOA/PFOS, Total	0.311		ng/g	0.271	0.045	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-21 Date Collected: 03/01/22 10:40

Client ID: SB011 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	101		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	99		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	71		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	98		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	75		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	57		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	96		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	64		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	82		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-21
Client ID: SB011 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/19/22 18:17
Analyst: SG
Percent Solids: 88%

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.542	0.106	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	85		10-117

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-21 D
Client ID: SB011 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/18/22 12:29
Analyst: JG
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 07:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	760	98.	5
1,2,4-Trichlorobenzene	ND		ug/kg	940	110	5
Hexachlorobenzene	ND		ug/kg	570	100	5
Bis(2-chloroethyl)ether	ND		ug/kg	850	130	5
2-Chloronaphthalene	ND		ug/kg	940	94.	5
1,2-Dichlorobenzene	ND		ug/kg	940	170	5
1,3-Dichlorobenzene	ND		ug/kg	940	160	5
1,4-Dichlorobenzene	ND		ug/kg	940	160	5
3,3'-Dichlorobenzidine	ND		ug/kg	940	250	5
2,4-Dinitrotoluene	ND		ug/kg	940	190	5
2,6-Dinitrotoluene	ND		ug/kg	940	160	5
Fluoranthene	1500		ug/kg	570	110	5
4-Chlorophenyl phenyl ether	ND		ug/kg	940	100	5
4-Bromophenyl phenyl ether	ND		ug/kg	940	140	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	160	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	94.	5
Hexachlorobutadiene	ND		ug/kg	940	140	5
Hexachlorocyclopentadiene	ND		ug/kg	2700	860	5
Hexachloroethane	ND		ug/kg	760	150	5
Isophorone	ND		ug/kg	850	120	5
Naphthalene	ND		ug/kg	940	110	5
Nitrobenzene	ND		ug/kg	850	140	5
NDPA/DPA	ND		ug/kg	760	110	5
n-Nitrosodi-n-propylamine	ND		ug/kg	940	140	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	940	330	5
Butyl benzyl phthalate	ND		ug/kg	940	240	5
Di-n-butylphthalate	ND		ug/kg	940	180	5
Di-n-octylphthalate	ND		ug/kg	940	320	5

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-21 D
Client ID: SB011 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	940	87.	5
Dimethyl phthalate	ND		ug/kg	940	200	5
Benzo(a)anthracene	550	J	ug/kg	570	110	5
Benzo(a)pyrene	520	J	ug/kg	760	230	5
Benzo(b)fluoranthene	980		ug/kg	570	160	5
Benzo(k)fluoranthene	300	J	ug/kg	570	150	5
Chrysene	1000		ug/kg	570	98.	5
Acenaphthylene	ND		ug/kg	760	140	5
Anthracene	ND		ug/kg	570	180	5
Benzo(ghi)perylene	470	J	ug/kg	760	110	5
Fluorene	ND		ug/kg	940	92.	5
Phenanthrene	1100		ug/kg	570	110	5
Dibenzo(a,h)anthracene	120	J	ug/kg	570	110	5
Indeno(1,2,3-cd)pyrene	530	J	ug/kg	760	130	5
Pyrene	1200		ug/kg	570	94.	5
Biphenyl	ND		ug/kg	2200	120	5
4-Chloroaniline	ND		ug/kg	940	170	5
2-Nitroaniline	ND		ug/kg	940	180	5
3-Nitroaniline	ND		ug/kg	940	180	5
4-Nitroaniline	ND		ug/kg	940	390	5
Dibenzofuran	ND		ug/kg	940	89.	5
2-Methylnaphthalene	ND		ug/kg	1100	110	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	940	98.	5
Acetophenone	ND		ug/kg	940	120	5
2,4,6-Trichlorophenol	ND		ug/kg	570	180	5
p-Chloro-m-cresol	ND		ug/kg	940	140	5
2-Chlorophenol	ND		ug/kg	940	110	5
2,4-Dichlorophenol	ND		ug/kg	850	150	5
2,4-Dimethylphenol	ND		ug/kg	940	310	5
2-Nitrophenol	ND		ug/kg	2000	350	5
4-Nitrophenol	ND		ug/kg	1300	380	5
2,4-Dinitrophenol	ND		ug/kg	4500	440	5
4,6-Dinitro-o-cresol	ND		ug/kg	2400	450	5
Pentachlorophenol	ND		ug/kg	760	210	5
Phenol	ND		ug/kg	940	140	5
2-Methylphenol	ND		ug/kg	940	150	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1400	150	5

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-21 D
Client ID: SB011 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	940	180	5
Benzoic Acid	ND		ug/kg	3000	960	5
Benzyl Alcohol	ND		ug/kg	940	290	5
Carbazole	130	J	ug/kg	940	92.	5
1,4-Dioxane	ND		ug/kg	140	43.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	54		10-136
4-Terphenyl-d14	63		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-22
Client ID: SB003 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 11:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/18/22 12:53
Analyst: JG
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 07:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	450		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	5700		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	320		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-22 Date Collected: 03/01/22 11:05

Client ID: SB003 3-5 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	3100		ug/kg	110	21.	1
Benzo(a)pyrene	2900		ug/kg	150	46.	1
Benzo(b)fluoranthene	3500		ug/kg	110	32.	1
Benzo(k)fluoranthene	900		ug/kg	110	30.	1
Chrysene	2800		ug/kg	110	19.	1
Acenaphthylene	100	J	ug/kg	150	29.	1
Anthracene	1400		ug/kg	110	36.	1
Benzo(ghi)perylene	1800		ug/kg	150	22.	1
Fluorene	650		ug/kg	190	18.	1
Phenanthrene	5700		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	390		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	1900		ug/kg	150	26.	1
Pyrene	5100		ug/kg	110	18.	1
Biphenyl	67	J	ug/kg	430	24.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	460		ug/kg	190	18.	1
2-Methylnaphthalene	240		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	900	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	40	J	ug/kg	270	29.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-22 Date Collected: 03/01/22 11:05

Client ID: SB003 3-5 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	660		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	72		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-22
Client ID: SB003 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 11:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/16/22 02:37
Analyst: HT
Percent Solids: 87%

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.542	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.542	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.271	0.042	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.542	0.057	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.271	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.271	0.066	1
Perfluorooctanoic Acid (PFOA)	0.384		ng/g	0.271	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.542	0.195	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.542	0.148	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.271	0.081	1
Perfluorooctanesulfonic Acid (PFOS)	0.587		ng/g	0.271	0.141	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.271	0.073	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.542	0.311	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.542	0.218	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.542	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.542	0.166	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.542	0.106	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.542	0.092	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.542	0.076	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.542	0.222	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.542	0.059	1
PFOA/PFOS, Total	0.971		ng/g	0.271	0.045	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-22 Date Collected: 03/01/22 11:05

Client ID: SB003 3-5 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	97		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	104		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	83		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	119		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	103		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	96		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**184**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	109		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	106		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	55		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	133		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	96		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	87		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-23
Client ID: SB011 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:55
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/16/22 02:53
Analyst: HT
Percent Solids: 91%

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.540	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.540	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.270	0.042	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.540	0.057	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.270	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.270	0.065	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.270	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.540	0.194	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.540	0.147	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.270	0.081	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.270	0.140	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.270	0.072	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.540	0.310	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.540	0.218	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.540	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.540	0.165	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.540	0.106	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.540	0.091	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.540	0.076	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.540	0.221	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.540	0.058	1
PFOA/PFOS, Total	ND		ng/g	0.270	0.045	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-23 Date Collected: 03/01/22 10:55

Client ID: SB011 18-20 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	101		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	87		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	100		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	76		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	100		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	97		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	97		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	101		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	74		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	76		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	88		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	101		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	88		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-23 D
Client ID: SB011 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:55
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/18/22 13:17
Analyst: JG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 07:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1900		ug/kg	1500	190	10
1,2,4-Trichlorobenzene	ND		ug/kg	1800	210	10
Hexachlorobenzene	ND		ug/kg	1100	200	10
Bis(2-chloroethyl)ether	ND		ug/kg	1600	250	10
2-Chloronaphthalene	ND		ug/kg	1800	180	10
1,2-Dichlorobenzene	ND		ug/kg	1800	330	10
1,3-Dichlorobenzene	ND		ug/kg	1800	310	10
1,4-Dichlorobenzene	ND		ug/kg	1800	320	10
3,3'-Dichlorobenzidine	ND		ug/kg	1800	480	10
2,4-Dinitrotoluene	ND		ug/kg	1800	360	10
2,6-Dinitrotoluene	ND		ug/kg	1800	310	10
Fluoranthene	ND		ug/kg	1100	210	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1800	200	10
4-Bromophenyl phenyl ether	ND		ug/kg	1800	280	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2200	310	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2000	180	10
Hexachlorobutadiene	ND		ug/kg	1800	270	10
Hexachlorocyclopentadiene	ND		ug/kg	5200	1600	10
Hexachloroethane	ND		ug/kg	1500	300	10
Isophorone	ND		ug/kg	1600	240	10
Naphthalene	700	J	ug/kg	1800	220	10
Nitrobenzene	ND		ug/kg	1600	270	10
NDPA/DPA	ND		ug/kg	1500	210	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1800	280	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1800	630	10
Butyl benzyl phthalate	ND		ug/kg	1800	460	10
Di-n-butylphthalate	ND		ug/kg	1800	350	10
Di-n-octylphthalate	ND		ug/kg	1800	620	10

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-23 D
Client ID: SB011 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:55
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	1800	170	10
Dimethyl phthalate	ND		ug/kg	1800	380	10
Benzo(a)anthracene	ND		ug/kg	1100	200	10
Benzo(a)pyrene	ND		ug/kg	1500	440	10
Benzo(b)fluoranthene	ND		ug/kg	1100	310	10
Benzo(k)fluoranthene	ND		ug/kg	1100	290	10
Chrysene	ND		ug/kg	1100	190	10
Acenaphthylene	ND		ug/kg	1500	280	10
Anthracene	860	J	ug/kg	1100	360	10
Benzo(ghi)perylene	ND		ug/kg	1500	210	10
Fluorene	3800		ug/kg	1800	180	10
Phenanthrene	8300		ug/kg	1100	220	10
Dibenzo(a,h)anthracene	ND		ug/kg	1100	210	10
Indeno(1,2,3-cd)pyrene	ND		ug/kg	1500	250	10
Pyrene	530	J	ug/kg	1100	180	10
Biphenyl	ND		ug/kg	4200	240	10
4-Chloroaniline	ND		ug/kg	1800	330	10
2-Nitroaniline	ND		ug/kg	1800	350	10
3-Nitroaniline	ND		ug/kg	1800	340	10
4-Nitroaniline	ND		ug/kg	1800	760	10
Dibenzofuran	2300		ug/kg	1800	170	10
2-Methylnaphthalene	54000		ug/kg	2200	220	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1800	190	10
Acetophenone	ND		ug/kg	1800	230	10
2,4,6-Trichlorophenol	ND		ug/kg	1100	350	10
p-Chloro-m-cresol	ND		ug/kg	1800	270	10
2-Chlorophenol	ND		ug/kg	1800	220	10
2,4-Dichlorophenol	ND		ug/kg	1600	290	10
2,4-Dimethylphenol	ND		ug/kg	1800	600	10
2-Nitrophenol	ND		ug/kg	3900	690	10
4-Nitrophenol	ND		ug/kg	2600	740	10
2,4-Dinitrophenol	ND		ug/kg	8800	850	10
4,6-Dinitro-o-cresol	ND		ug/kg	4700	880	10
Pentachlorophenol	ND		ug/kg	1500	400	10
Phenol	ND		ug/kg	1800	280	10
2-Methylphenol	ND		ug/kg	1800	280	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2600	290	10

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-23 D
Client ID: SB011 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:55
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	1800	350	10
Benzoic Acid	ND		ug/kg	5900	1800	10
Benzyl Alcohol	ND		ug/kg	1800	560	10
Carbazole	ND		ug/kg	1800	180	10
1,4-Dioxane	ND		ug/kg	270	84.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	80		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-24
Client ID: SB011 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:45
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 02:55
Analyst: SZ
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 07:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	200		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	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	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	32	J	ug/kg	120	22.	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	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	76	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	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-24 Date Collected: 03/01/22 10:45

Client ID: SB011 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	120		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	420		ug/kg	200	19.	1
Phenanthrene	690		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	31	J	ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	26.	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	81.	1
Dibenzofuran	ND		ug/kg	200	18.	1
2-Methylnaphthalene	1400		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	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	420	74.	1
4-Nitrophenol	ND		ug/kg	280	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-24 Date Collected: 03/01/22 10:45

Client ID: SB011 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	80		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-24
Client ID: SB011 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:45
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/16/22 03:10
Analyst: HT
Percent Solids: 85%

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.555	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.555	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.277	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.555	0.058	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.277	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.277	0.067	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.277	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.555	0.199	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.555	0.151	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.277	0.083	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.277	0.144	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.277	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.555	0.318	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.555	0.224	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.555	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.555	0.170	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.555	0.094	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.555	0.078	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.555	0.227	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.555	0.060	1
PFOA/PFOS, Total	ND		ng/g	0.277	0.047	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-24 Date Collected: 03/01/22 10:45

Client ID: SB011 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	85		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	89		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	77		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	81		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	67		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	84		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	89		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	87		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	68		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	53		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	87		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	66		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	84		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	73		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-24
Client ID: SB011 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:45
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/19/22 18:25
Analyst: SG
Percent Solids: 85%

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.555	0.109	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	82		10-117

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-25
Client ID: SB010 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 05:42
Analyst: SZ
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 07:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	45	J	ug/kg	140	19.	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
Fluoranthene	1800		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	22	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	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: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-25 Date Collected: 03/01/22 12:05

Client ID: SB010 4-6 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

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	730		ug/kg	110	20.	1
Benzo(a)pyrene	730		ug/kg	140	44.	1
Benzo(b)fluoranthene	840		ug/kg	110	30.	1
Benzo(k)fluoranthene	280		ug/kg	110	29.	1
Chrysene	670		ug/kg	110	19.	1
Acenaphthylene	67	J	ug/kg	140	28.	1
Anthracene	200		ug/kg	110	35.	1
Benzo(ghi)perylene	490		ug/kg	140	21.	1
Fluorene	56	J	ug/kg	180	17.	1
Phenanthrene	1100		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	80	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	560		ug/kg	140	25.	1
Pyrene	1600		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	23.	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	26	J	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	22.	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	ND		ug/kg	260	28.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-25 Date Collected: 03/01/22 12:05

Client ID: SB010 4-6 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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	110	J	ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	67		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-25
Client ID: SB010 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/16/22 03:27
Analyst: HT
Percent Solids: 90%

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.541	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.541	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.270	0.042	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.541	0.057	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.270	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.270	0.065	1
Perfluorooctanoic Acid (PFOA)	0.290		ng/g	0.270	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.541	0.194	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.541	0.148	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.270	0.081	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.270	0.141	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.270	0.073	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.541	0.310	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.541	0.218	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.541	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.541	0.166	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.541	0.106	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.541	0.091	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.541	0.076	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.541	0.221	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.541	0.058	1
PFOA/PFOS, Total	0.290		ng/g	0.270	0.045	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-25 Date Collected: 03/01/22 12:05

Client ID: SB010 4-6 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	85		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	96		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	70		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	79		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	57		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	94		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	81		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	63		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	89		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	75		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-26
Client ID: SB010 8-10
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 04:06
Analyst: SZ
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 07:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
1,2-Dichlorobenzene	ND		ug/kg	190	33.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	80	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	64.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	63.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-26 Date Collected: 03/01/22 12:10

Client ID: SB010 8-10 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	49	J	ug/kg	110	21.	1
Benzo(a)pyrene	79	J	ug/kg	150	45.	1
Benzo(b)fluoranthene	93	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	52	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	88	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	45	J	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	80	J	ug/kg	150	26.	1
Pyrene	80	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	19.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-26 Date Collected: 03/01/22 12:10

Client ID: SB010 8-10 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	93		10-136
4-Terphenyl-d14	72		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-26
Client ID: SB010 8-10
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/16/22 03:43
Analyst: HT
Percent Solids: 88%

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.546	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.546	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.273	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.546	0.057	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.273	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.273	0.066	1
Perfluorooctanoic Acid (PFOA)	0.540		ng/g	0.273	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.546	0.196	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.546	0.149	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.273	0.082	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.273	0.142	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.273	0.073	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.546	0.313	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.546	0.220	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.546	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.546	0.167	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.546	0.092	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.546	0.076	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.546	0.223	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.546	0.059	1
PFOA/PFOS, Total	0.540		ng/g	0.273	0.046	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-26 Date Collected: 03/01/22 12:10

Client ID: SB010 8-10 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	98		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	88		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	74		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	91		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	98		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	73		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	54		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	67		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	91		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	82		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-26
Client ID: SB010 8-10
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/19/22 18:32
Analyst: SG
Percent Solids: 88%

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.546	0.107	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	88		10-117

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-27
Client ID: SB003 9-11
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 08:28
Analyst: SZ
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 07:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	85	J	ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	1800		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	120	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	200		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-27 Date Collected: 03/01/22 12:15

Client ID: SB003 9-11 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	930		ug/kg	120	22.	1
Benzo(a)pyrene	900		ug/kg	150	47.	1
Benzo(b)fluoranthene	1200		ug/kg	120	32.	1
Benzo(k)fluoranthene	330		ug/kg	120	31.	1
Chrysene	850		ug/kg	120	20.	1
Acenaphthylene	100	J	ug/kg	150	30.	1
Anthracene	370		ug/kg	120	37.	1
Benzo(ghi)perylene	620		ug/kg	150	22.	1
Fluorene	140	J	ug/kg	190	19.	1
Phenanthrene	1400		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	140		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	740		ug/kg	150	27.	1
Pyrene	1500		ug/kg	120	19.	1
Biphenyl	38	J	ug/kg	440	25.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	110	J	ug/kg	190	18.	1
2-Methylnaphthalene	110	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	420	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-27 Date Collected: 03/01/22 12:15

Client ID: SB003 9-11 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	190		ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	62		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-27
Client ID: SB003 9-11
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/16/22 04:00
Analyst: HT
Percent Solids: 87%

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.548	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.548	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.274	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.548	0.058	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.274	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.274	0.066	1
Perfluorooctanoic Acid (PFOA)	0.476		ng/g	0.274	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.548	0.197	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.548	0.150	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.274	0.082	1
Perfluorooctanesulfonic Acid (PFOS)	0.743		ng/g	0.274	0.143	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.274	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.548	0.315	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.548	0.221	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.548	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.548	0.168	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.548	0.108	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.548	0.093	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.548	0.077	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.548	0.224	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.548	0.059	1
PFOA/PFOS, Total	1.22		ng/g	0.274	0.046	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-27 Date Collected: 03/01/22 12:15

Client ID: SB003 9-11 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	106		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	104		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	86		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	110		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	101		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	133		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	105		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	110		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	103		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**220**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	115		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	51		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	134		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	93		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-28
Client ID: SB003 20-22
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 02:07
Analyst: IM
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 07:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	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	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	32.	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
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	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	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	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	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-28 Date Collected: 03/01/22 12:40

Client ID: SB003 20-22 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

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	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	23.	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	75.	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	22.	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	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	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	ND		ug/kg	260	28.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-28 Date Collected: 03/01/22 12:40

Client ID: SB003 20-22 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	69		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-28
Client ID: SB003 20-22
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/16/22 04:16
Analyst: HT
Percent Solids: 91%

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.508	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.508	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.254	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.508	0.053	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.254	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.254	0.061	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.254	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.508	0.182	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.508	0.139	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.254	0.076	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.254	0.132	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.254	0.068	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.508	0.291	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.508	0.205	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.508	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.508	0.155	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.508	0.086	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.508	0.071	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.508	0.208	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.508	0.055	1
PFOA/PFOS, Total	ND		ng/g	0.254	0.043	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-28 Date Collected: 03/01/22 12:40

Client ID: SB003 20-22 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	73		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	78		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	90		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	70		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	76		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	94		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	80		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	65		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	81		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	90		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	77		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	62		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**11**	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	83		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**17**	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	75		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	48		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-28
Client ID: SB003 20-22
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/19/22 18:39
Analyst: SG
Percent Solids: 91%

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.508	0.100	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	105		10-117

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-29
Client ID: SB005 12-14
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 04:54
Analyst: SZ
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		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	32.	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	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		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	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	64.	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: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-29 Date Collected: 03/01/22 17:30

Client ID: SB005 12-14 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

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	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	35.	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	30.	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	86.	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

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-29 Date Collected: 03/01/22 17:30

Client ID: SB005 12-14 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	63		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-29
Client ID: SB005 12-14
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/16/22 04:33
Analyst: HT
Percent Solids: 88%

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.539	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.539	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.270	0.042	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.539	0.057	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.270	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.270	0.065	1
Perfluorooctanoic Acid (PFOA)	0.431		ng/g	0.270	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.539	0.194	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.539	0.147	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.270	0.081	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.270	0.140	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.270	0.072	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.539	0.310	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.539	0.217	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.539	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.539	0.165	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.539	0.106	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.539	0.091	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.539	0.076	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.539	0.220	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.539	0.058	1
PFOA/PFOS, Total	0.431		ng/g	0.270	0.045	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-29 Date Collected: 03/01/22 17:30

Client ID: SB005 12-14 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	94		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	99		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	87		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	71		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	91		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	66		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	56		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	82		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	54		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	86		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	75		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-30
Client ID: SB002 2-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 07:17
Analyst: SZ
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	28	J	ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	1300		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	52	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-30 Date Collected: 03/01/22 15:25

Client ID: SB002 2-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	700		ug/kg	110	21.	1
Benzo(a)pyrene	830		ug/kg	150	46.	1
Benzo(b)fluoranthene	990		ug/kg	110	32.	1
Benzo(k)fluoranthene	250		ug/kg	110	30.	1
Chrysene	720		ug/kg	110	20.	1
Acenaphthylene	110	J	ug/kg	150	29.	1
Anthracene	140		ug/kg	110	37.	1
Benzo(ghi)perylene	730		ug/kg	150	22.	1
Fluorene	33	J	ug/kg	190	18.	1
Phenanthrene	550		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	230		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	670		ug/kg	150	26.	1
Pyrene	1200		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	24.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	28	J	ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	900	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-30 Date Collected: 03/01/22 15:25

Client ID: SB002 2-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	64	J	ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	66		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-30
Client ID: SB002 2-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/16/22 04:49
Analyst: HT
Percent Solids: 87%

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.532	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.532	0.049	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.266	0.041	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.532	0.056	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.266	0.048	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.266	0.064	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.266	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.532	0.191	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.532	0.145	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.266	0.080	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.266	0.138	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.266	0.071	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.532	0.305	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.532	0.214	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.532	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.532	0.163	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.532	0.104	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.532	0.090	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.532	0.074	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.532	0.217	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.532	0.057	1
PFOA/PFOS, Total	ND		ng/g	0.266	0.045	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-30 Date Collected: 03/01/22 15:25

Client ID: SB002 2-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	86		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	90		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	93		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	77		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	82		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	65		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	85		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	91		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	71		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	39		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	89		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	13		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	53		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	82		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	65		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-31
Client ID: SB009 9-11
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 00:32
Analyst: SZ
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	52.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	170	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-31 Date Collected: 03/01/22 16:40

Client ID: SB009 9-11 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	41.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	ND		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	25.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	37.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	93.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-31 Date Collected: 03/01/22 16:40

Client ID: SB009 9-11 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	67		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-31
Client ID: SB009 9-11
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/16/22 05:23
Analyst: HT
Percent Solids: 84%

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.550	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.550	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.275	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.550	0.058	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.275	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.275	0.067	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.275	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.550	0.197	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.550	0.150	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.275	0.083	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.275	0.143	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.275	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.550	0.316	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.550	0.222	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.550	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.550	0.168	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.550	0.093	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.550	0.077	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.550	0.225	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.550	0.059	1
PFOA/PFOS, Total	ND		ng/g	0.275	0.046	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-31 Date Collected: 03/01/22 16:40

Client ID: SB009 9-11 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	80		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	87		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	98		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	77		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	82		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	76		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	89		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	96		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	75		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	35		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	96		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	44		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	70		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-31
Client ID: SB009 9-11
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/19/22 18:46
Analyst: SG
Percent Solids: 84%

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.550	0.108	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	105		10-117

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-32
Client ID: SB009 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 07:41
Analyst: SZ
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	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	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	170		ug/kg	100	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	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	21	J	ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-32 Date Collected: 03/01/22 16:30

Client ID: SB009 3-5 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	120		ug/kg	100	20.	1
Benzo(a)pyrene	150		ug/kg	140	43.	1
Benzo(b)fluoranthene	180		ug/kg	100	30.	1
Benzo(k)fluoranthene	63	J	ug/kg	100	28.	1
Chrysene	110		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	100	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	52	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	22	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	120	J	ug/kg	140	24.	1
Pyrene	160		ug/kg	100	18.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	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	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-32 Date Collected: 03/01/22 16:30

Client ID: SB009 3-5 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	70		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-32
Client ID: SB009 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/16/22 05:39
Analyst: HT
Percent Solids: 93%

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.490	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.490	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.245	0.038	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.490	0.051	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.245	0.044	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.245	0.059	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.245	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.490	0.176	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.490	0.134	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.245	0.074	1
Perfluorooctanesulfonic Acid (PFOS)	0.298		ng/g	0.245	0.127	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.245	0.066	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.490	0.281	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.490	0.197	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.490	0.046	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.490	0.150	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.490	0.096	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.490	0.083	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.490	0.069	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.490	0.200	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.490	0.053	1
PFOA/PFOS, Total	0.298		ng/g	0.245	0.041	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-32 Date Collected: 03/01/22 16:30

Client ID: SB009 3-5 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	101		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	111		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	114		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	106		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	89		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	111		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	91		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	55		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	42		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	62		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	79		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-33
Client ID: SB005 15-17
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:35
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/16/22 05:56
Analyst: HT
Percent Solids: 91%

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.525	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.525	0.048	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.262	0.041	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.525	0.055	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.262	0.047	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.262	0.064	1
Perfluorooctanoic Acid (PFOA)	0.320		ng/g	0.262	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.525	0.188	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.525	0.143	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.262	0.079	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.262	0.136	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.262	0.070	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.525	0.301	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.525	0.212	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.525	0.049	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.525	0.161	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.525	0.103	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.525	0.089	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.525	0.074	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.525	0.215	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.525	0.057	1
PFOA/PFOS, Total	0.320		ng/g	0.262	0.044	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-33 Date Collected: 03/01/22 17:35

Client ID: SB005 15-17 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	87		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	72		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	75		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	50		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	97		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	83		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	57		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	86		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	66		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-34
Client ID: SB009 5-7
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:35
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/16/22 06:12
Analyst: HT
Percent Solids: 89%

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.548	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.548	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.274	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.548	0.058	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.274	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.274	0.066	1
Perfluorooctanoic Acid (PFOA)	0.077	JF	ng/g	0.274	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.548	0.197	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.548	0.150	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.274	0.082	1
Perfluorooctanesulfonic Acid (PFOS)	0.244	J	ng/g	0.274	0.142	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.274	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.548	0.315	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.548	0.221	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.548	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.548	0.168	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.548	0.107	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.548	0.093	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.548	0.077	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.548	0.224	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.548	0.059	1
PFOA/PFOS, Total	0.321	J	ng/g	0.274	0.046	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-34 Date Collected: 03/01/22 16:35

Client ID: SB009 5-7 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	97		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	105		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	91		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	93		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	107		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	101		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	85		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	98		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	102		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	86		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	58		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	98		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	82		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	71		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	89		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	82		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-35
Client ID: SB004 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/16/22 06:29
Analyst: HT
Percent Solids: 82%

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.566	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.566	0.052	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.283	0.044	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.566	0.060	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.283	0.051	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.283	0.069	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.283	0.048	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.566	0.203	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.566	0.155	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.283	0.085	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.283	0.147	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.283	0.076	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.566	0.325	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.566	0.228	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.566	0.053	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.566	0.173	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.566	0.111	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.566	0.096	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.566	0.079	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.566	0.232	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.566	0.061	1
PFOA/PFOS, Total	ND		ng/g	0.283	0.048	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-35 Date Collected: 03/01/22 17:00

Client ID: SB004 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	97		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	104		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	107		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	112		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	102		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	86		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	109		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	102		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	90		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	46		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	99		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	66		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	53		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	78		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-37
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 18:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/07/22 04:16
Analyst: JRW

Extraction Method: EPA 3510C
Extraction Date: 03/06/22 03:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-37 Date Collected: 03/01/22 18:10

Client ID: EQUIPMENT BLANK Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		21-120
Phenol-d6	62		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	76		10-120
4-Terphenyl-d14	77		41-149

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-37
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 18:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/07/22 11:04
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/06/22 03:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-37 Date Collected: 03/01/22 18:10

Client ID: EQUIPMENT BLANK Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		21-120
Phenol-d6	60		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	83		10-120
4-Terphenyl-d14	84		41-149

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-37
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 18:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/10/22 03:02
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 03/04/22 10:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	134	30.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	40		15-110

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-37
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 18:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/10/22 14:41
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 06:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.80	0.366	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.80	0.356	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.80	0.214	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.80	0.294	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.80	0.202	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.80	0.338	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.80	0.212	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	3.85		ng/l	1.80	1.20	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.80	0.618	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.80	0.280	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.80	0.452	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.80	0.273	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.80	1.09	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.80	0.582	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.80	0.233	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.80	0.880	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.80	0.521	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.80	0.722	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.80	0.334	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.80	0.294	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.80	0.223	1
PFOA/PFOS, Total	ND		ng/l	1.80	0.212	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-37 Date Collected: 03/01/22 18:10

Client ID: EQUIPMENT BLANK Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	107		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	114		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	111		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	94		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	112		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	107		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	96		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	112		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	106		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	111		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	90		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	116		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	43		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	101		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	105		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	99		22-136

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-38
Client ID: FIELD BLANK
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 18:20
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/10/22 14:58
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 06:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.82	0.370	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.82	0.360	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.82	0.216	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.82	0.298	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.82	0.204	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.82	0.341	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.82	0.214	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.82	1.21	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.82	0.625	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.82	0.283	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.82	0.458	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.82	0.276	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.82	1.10	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.82	0.588	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.82	0.236	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.82	0.890	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.82	0.527	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.82	0.730	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.82	0.338	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.82	0.297	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.82	0.225	1
PFOA/PFOS, Total	ND		ng/l	1.82	0.214	1

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-38 Date Collected: 03/01/22 18:20

Client ID: FIELD BLANK Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	103		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	109		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	93		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	104		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	102		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	96		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	104		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	103		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	109		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	87		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	111		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	46		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	93		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	101		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	95		22-136

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/18/22 16:58
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 08:11

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-20 Batch: WG1611670-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/18/22 16:58
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 08:11

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-20 Batch: WG1611670-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	74		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	77		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	81		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	68		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	**70**	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	82		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	**73**	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	52		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	**71**	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	**72**	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	**71**	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	48		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	38		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	69		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	21		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**31**	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	62		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	36		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/19/22 16:29
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/04/22 08:11

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-20 Batch: WG1611670-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**128**	Q	10-117

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 03/09/22 22:23
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 03/04/22 10:46

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 37 Batch: WG1611698-1					
1,4-Dioxane	ND		ng/l	150	33.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	44		15-110

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/06/22 22:50
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 03/06/22 03:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 37 Batch: WG1612184-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/06/22 22:50
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 03/06/22 03:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 37 Batch: WG1612184-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/06/22 22:50
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 03/06/22 03:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 37 Batch: WG1612184-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		21-120
Phenol-d6	61		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	61		10-120
4-Terphenyl-d14	72		41-149

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 03/06/22 14:44
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/06/22 03:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 37 Batch: WG1612185-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 03/06/22 14:44
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/06/22 03:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 37 Batch: WG1612185-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		21-120
Phenol-d6	62		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	82		41-149

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/10/22 13:01
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 06:30

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 37-38 Batch: WG1613390-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/10/22 13:01
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 06:30

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 37-38 Batch: WG1613390-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	107		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	109		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	114		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	95		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	115		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	108		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	142		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	107		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	105		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	108		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	139		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	103		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	119		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	47		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	111		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	110		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	92		22-136

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/16/22 01:47
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 21-35 Batch: WG1613825-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/16/22 01:47
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 21-35 Batch: WG1613825-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	77		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	81		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	77		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	68		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	72		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	79		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	77		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	52		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	75		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	**70**	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	77		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	53		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	46		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	77		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	28		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	43		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	68		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	44		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/19/22 18:03
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/09/22 19:55

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 21-35 Batch: WG1613825-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	109		10-117

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/16/22 22:17
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 03/12/22 16:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-19 Batch: WG1614960-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.
Hexachlorobenzene	ND		ug/kg	100	19.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	170	16.
1,2-Dichlorobenzene	ND		ug/kg	170	30.
1,3-Dichlorobenzene	ND		ug/kg	170	29.
1,4-Dichlorobenzene	ND		ug/kg	170	29.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	170	33.
2,6-Dinitrotoluene	ND		ug/kg	170	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachlorocyclopentadiene	ND		ug/kg	480	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	25.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	32.
Di-n-octylphthalate	ND		ug/kg	170	56.
Diethyl phthalate	ND		ug/kg	170	15.

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/16/22 22:17
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 03/12/22 16:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-19 Batch: WG1614960-1					
Dimethyl phthalate	ND		ug/kg	170	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	27.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	22.
4-Chloroaniline	ND		ug/kg	170	30.
2-Nitroaniline	ND		ug/kg	170	32.
3-Nitroaniline	ND		ug/kg	170	31.
4-Nitroaniline	ND		ug/kg	170	69.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.
Acetophenone	ND		ug/kg	170	20.
2,4,6-Trichlorophenol	ND		ug/kg	100	32.
p-Chloro-m-cresol	ND		ug/kg	170	25.
2-Chlorophenol	ND		ug/kg	170	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	170	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/16/22 22:17
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 03/12/22 16:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-19 Batch: WG1614960-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	78.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	170	51.
Carbazole	ND		ug/kg	170	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	74		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/16/22 03:55
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 03/13/22 07:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 20-32 Batch: WG1615016-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.
Hexachlorobenzene	ND		ug/kg	100	19.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	170	16.
1,2-Dichlorobenzene	ND		ug/kg	170	30.
1,3-Dichlorobenzene	ND		ug/kg	170	28.
1,4-Dichlorobenzene	ND		ug/kg	170	29.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	170	33.
2,6-Dinitrotoluene	ND		ug/kg	170	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachlorocyclopentadiene	ND		ug/kg	480	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	25.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	32.
Di-n-octylphthalate	ND		ug/kg	170	56.
Diethyl phthalate	ND		ug/kg	170	15.

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/16/22 03:55
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 03/13/22 07:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 20-32 Batch: WG1615016-1					
Dimethyl phthalate	ND		ug/kg	170	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	27.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	22.
4-Chloroaniline	ND		ug/kg	170	30.
2-Nitroaniline	ND		ug/kg	170	32.
3-Nitroaniline	ND		ug/kg	170	31.
4-Nitroaniline	ND		ug/kg	170	69.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.
Acetophenone	ND		ug/kg	170	20.
2,4,6-Trichlorophenol	ND		ug/kg	100	32.
p-Chloro-m-cresol	ND		ug/kg	170	25.
2-Chlorophenol	ND		ug/kg	170	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	170	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/16/22 03:55
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 03/13/22 07:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 20-32 Batch: WG1615016-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	170	51.
Carbazole	ND		ug/kg	170	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	68		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/18/22 11:07
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 03/17/22 19:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 11,13,15 Batch: WG1616999-1					
Acenaphthene	ND		ug/kg	130	17.
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.
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	25.
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.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/18/22 11:07
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 03/17/22 19:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 11,13,15 Batch: WG1616999-1					
Dimethyl phthalate	ND		ug/kg	160	35.
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.
Biphenyl	ND		ug/kg	380	21.
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	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/18/22 11:07
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 03/17/22 19:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 11,13,15 Batch: WG1616999-1					
4-Nitrophenol	ND		ug/kg	230	67.
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	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	93		10-136
4-Terphenyl-d14	75		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/19/22 16:59
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 03/18/22 15:57

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1617383-1					
Acenaphthene	ND		ug/kg	130	17.
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.
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.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/19/22 16:59
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 03/18/22 15:57

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1617383-1					
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	21.
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	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/19/22 16:59
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 03/18/22 15:57

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1617383-1					
4-Nitrophenol	ND		ug/kg	230	67.
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	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		25-120
Phenol-d6	40		10-120
Nitrobenzene-d5	35		23-120
2-Fluorobiphenyl	45		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	62		18-120

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/21/22 00:54
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/20/22 11:15

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 17 Batch: WG1617672-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/21/22 00:54
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/20/22 11:15

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 17 Batch: WG1617672-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	82		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	85		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	91		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	91		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	98		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	70		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	53		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	74		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	60		24-159

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/22/22 11:43
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 03/20/22 11:15

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 17 Batch: WG1617672-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	93		10-117

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/23/22 01:21
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 03/22/22 15:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 14 Batch: WG1618532-1					
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	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: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/23/22 01:21
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 03/22/22 15:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 14 Batch: WG1618532-1					
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	21.
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	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	62.

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/23/22 01:21
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 03/22/22 15:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 14 Batch: WG1618532-1					
4-Nitrophenol	ND		ug/kg	230	67.
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	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	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	95		30-120
2,4,6-Tribromophenol	123		10-136
4-Terphenyl-d14	96		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-20 Batch: WG1611670-2								
Perfluorobutanoic Acid (PFBA)	91		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	92		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	92		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	94		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	91		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	106		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	86		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	97		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	99		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	100		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	99		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	92		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	100		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	94		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	90		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	79		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	84		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	97		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	93		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	112		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	102		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-20 Batch: WG1611670-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	83				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	84				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	86				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	77				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	80				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	85				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	84				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	62				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	76				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	81				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	83				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	63				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	46				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	80				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	29				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	43				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	75				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	47				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-20 Batch: WG1611670-2								
Perfluorooctanesulfonamide (FOSA)	113		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**126**	Q			10-117

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 37 Batch: WG1611698-2 WG1611698-3								
1,4-Dioxane	124		128		40-140	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	45		46		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 37 Batch: WG1612184-2 WG1612184-3								
Acenaphthene	74		66		37-111	11		30
1,2,4-Trichlorobenzene	69		63		39-98	9		30
Hexachlorobenzene	68		65		40-140	5		30
Bis(2-chloroethyl)ether	76		67		40-140	13		30
2-Chloronaphthalene	70		63		40-140	11		30
1,2-Dichlorobenzene	72		64		40-140	12		30
1,3-Dichlorobenzene	72		63		40-140	13		30
1,4-Dichlorobenzene	72		63		36-97	13		30
3,3'-Dichlorobenzidine	56		44		40-140	24		30
2,4-Dinitrotoluene	77		72		48-143	7		30
2,6-Dinitrotoluene	69		64		40-140	8		30
Fluoranthene	72		68		40-140	6		30
4-Chlorophenyl phenyl ether	69		62		40-140	11		30
4-Bromophenyl phenyl ether	67		60		40-140	11		30
Bis(2-chloroisopropyl)ether	82		72		40-140	13		30
Bis(2-chloroethoxy)methane	72		63		40-140	13		30
Hexachlorobutadiene	65		59		40-140	10		30
Hexachlorocyclopentadiene	69		62		40-140	11		30
Hexachloroethane	72		63		40-140	13		30
Isophorone	69		62		40-140	11		30
Naphthalene	72		65		40-140	10		30
Nitrobenzene	80		71		40-140	12		30
NDPA/DPA	70		62		40-140	12		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 37 Batch: WG1612184-2 WG1612184-3								
n-Nitrosodi-n-propylamine	74		64		29-132	14		30
Bis(2-ethylhexyl)phthalate	59		54		40-140	9		30
Butyl benzyl phthalate	62		56		40-140	10		30
Di-n-butylphthalate	62		57		40-140	8		30
Di-n-octylphthalate	61		55		40-140	10		30
Diethyl phthalate	65		61		40-140	6		30
Dimethyl phthalate	63		59		40-140	7		30
Benzo(a)anthracene	74		68		40-140	8		30
Benzo(a)pyrene	71		66		40-140	7		30
Benzo(b)fluoranthene	81		81		40-140	0		30
Benzo(k)fluoranthene	75		67		40-140	11		30
Chrysene	76		69		40-140	10		30
Acenaphthylene	65		60		45-123	8		30
Anthracene	74		69		40-140	7		30
Benzo(ghi)perylene	80		72		40-140	11		30
Fluorene	72		66		40-140	9		30
Phenanthrene	73		67		40-140	9		30
Dibenzo(a,h)anthracene	83		75		40-140	10		30
Indeno(1,2,3-cd)pyrene	88		79		40-140	11		30
Pyrene	71		67		26-127	6		30
Biphenyl	72		66		40-140	9		30
4-Chloroaniline	54		47		40-140	14		30
2-Nitroaniline	72		69		52-143	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

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Lab Number: L2210848

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 37 Batch: WG1612184-2 WG1612184-3								
3-Nitroaniline	61		54		25-145	12		30
4-Nitroaniline	65		61		51-143	6		30
Dibenzofuran	72		66		40-140	9		30
2-Methylnaphthalene	70		64		40-140	9		30
1,2,4,5-Tetrachlorobenzene	69		62		2-134	11		30
Acetophenone	72		63		39-129	13		30
2,4,6-Trichlorophenol	66		62		30-130	6		30
p-Chloro-m-cresol	71		65		23-97	9		30
2-Chlorophenol	74		66		27-123	11		30
2,4-Dichlorophenol	74		66		30-130	11		30
2,4-Dimethylphenol	65		59		30-130	10		30
2-Nitrophenol	86		77		30-130	11		30
4-Nitrophenol	67		63		10-80	6		30
2,4-Dinitrophenol	64		65		20-130	2		30
4,6-Dinitro-o-cresol	85		82		20-164	4		30
Pentachlorophenol	53		54		9-103	2		30
Phenol	58		51		12-110	13		30
2-Methylphenol	71		63		30-130	12		30
3-Methylphenol/4-Methylphenol	72		66		30-130	9		30
2,4,5-Trichlorophenol	68		63		30-130	8		30
Benzoic Acid	48		47		10-164	2		30
Benzyl Alcohol	65		58		26-116	11		30
Carbazole	74		69		55-144	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

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Lab Number: L2210848

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 37 Batch: WG1612184-2 WG1612184-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		61		21-120
Phenol-d6	62		54		10-120
Nitrobenzene-d5	83		73		23-120
2-Fluorobiphenyl	65		60		15-120
2,4,6-Tribromophenol	69		66		10-120
4-Terphenyl-d14	70		65		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 37 Batch: WG1612185-2 WG1612185-3								
Acenaphthene	73		75		40-140	3		40
2-Chloronaphthalene	71		74		40-140	4		40
Fluoranthene	79		72		40-140	9		40
Hexachlorobutadiene	63		67		40-140	6		40
Naphthalene	70		71		40-140	1		40
Benzo(a)anthracene	76		74		40-140	3		40
Benzo(a)pyrene	71		71		40-140	0		40
Benzo(b)fluoranthene	77		75		40-140	3		40
Benzo(k)fluoranthene	77		81		40-140	5		40
Chrysene	72		74		40-140	3		40
Acenaphthylene	69		68		40-140	1		40
Anthracene	75		73		40-140	3		40
Benzo(ghi)perylene	82		82		40-140	0		40
Fluorene	74		74		40-140	0		40
Phenanthrene	74		72		40-140	3		40
Dibenzo(a,h)anthracene	85		84		40-140	1		40
Indeno(1,2,3-cd)pyrene	85		83		40-140	2		40
Pyrene	82		73		40-140	12		40
2-Methylnaphthalene	71		72		40-140	1		40
Pentachlorophenol	86		76		40-140	12		40
Hexachlorobenzene	74		76		40-140	3		40
Hexachloroethane	68		71		40-140	4		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 37 Batch: WG1612185-2 WG1612185-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	65		67		21-120
Phenol-d6	63		61		10-120
Nitrobenzene-d5	82		83		23-120
2-Fluorobiphenyl	72		73		15-120
2,4,6-Tribromophenol	75		79		10-120
4-Terphenyl-d14	80		74		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 37-38 Batch: WG1613390-2								
Perfluorobutanoic Acid (PFBA)	91		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	90		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	90		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	91		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	93		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	104		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	82		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	103		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	92		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	94		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	91		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	87		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	108		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	91		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	90		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	97		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	89		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	86		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	88		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	104		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	90		-		59-182	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 37-38 Batch: WG1613390-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	107				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	106				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	111				70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	96				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	97				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	108				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	112				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	118				14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	109				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	111				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	117				10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	98				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	119				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	51				10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	117				27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	114				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	104				22-136

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 21-35 Batch: WG1613825-2								
Perfluorobutanoic Acid (PFBA)	88		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	89		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	88		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	87		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	90		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	99		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	88		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	99		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	96		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	92		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	95		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	89		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	119		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	90		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	85		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	84		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	82		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	95		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	86		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	107		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	99		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 21-35 Batch: WG1613825-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	79				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	84				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	84				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	73				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	77				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	85				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	80				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	57				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	77				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	**76**	Q			79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	80				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	49				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	48				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	79				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	19				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	45				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	70				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	52				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 21-35 Batch: WG1613825-2								
Perfluorooctanesulfonamide (FOSA)	114		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	108				10-117

Lab Control Sample Analysis

Batch Quality Control

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-19 Batch: WG1614960-2 WG1614960-3								
Acenaphthene	69		63		31-137	9		50
1,2,4-Trichlorobenzene	74		67		38-107	10		50
Hexachlorobenzene	79		71		40-140	11		50
Bis(2-chloroethyl)ether	72		62		40-140	15		50
2-Chloronaphthalene	76		68		40-140	11		50
1,2-Dichlorobenzene	69		62		40-140	11		50
1,3-Dichlorobenzene	68		60		40-140	13		50
1,4-Dichlorobenzene	68		62		28-104	9		50
3,3'-Dichlorobenzidine	41		40		40-140	2		50
2,4-Dinitrotoluene	75		67		40-132	11		50
2,6-Dinitrotoluene	83		70		40-140	17		50
Fluoranthene	73		68		40-140	7		50
4-Chlorophenyl phenyl ether	74		68		40-140	8		50
4-Bromophenyl phenyl ether	74		68		40-140	8		50
Bis(2-chloroisopropyl)ether	65		57		40-140	13		50
Bis(2-chloroethoxy)methane	71		64		40-117	10		50
Hexachlorobutadiene	72		64		40-140	12		50
Hexachlorocyclopentadiene	**36**	Q	**31**	Q	40-140	15		50
Hexachloroethane	64		60		40-140	6		50
Isophorone	68		60		40-140	13		50
Naphthalene	70		64		40-140	9		50
Nitrobenzene	65		56		40-140	15		50
NDPA/DPA	72		68		36-157	6		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-19 Batch: WG1614960-2 WG1614960-3								
n-Nitrosodi-n-propylamine	64		59		32-121	8		50
Bis(2-ethylhexyl)phthalate	73		68		40-140	7		50
Butyl benzyl phthalate	74		66		40-140	11		50
Di-n-butylphthalate	75		69		40-140	8		50
Di-n-octylphthalate	75		69		40-140	8		50
Diethyl phthalate	73		67		40-140	9		50
Dimethyl phthalate	79		70		40-140	12		50
Benzo(a)anthracene	73		68		40-140	7		50
Benzo(a)pyrene	81		72		40-140	12		50
Benzo(b)fluoranthene	72		67		40-140	7		50
Benzo(k)fluoranthene	77		69		40-140	11		50
Chrysene	74		67		40-140	10		50
Acenaphthylene	80		68		40-140	16		50
Anthracene	71		65		40-140	9		50
Benzo(ghi)perylene	82		70		40-140	16		50
Fluorene	73		66		40-140	10		50
Phenanthrene	72		64		40-140	12		50
Dibenzo(a,h)anthracene	82		71		40-140	14		50
Indeno(1,2,3-cd)pyrene	86		73		40-140	16		50
Pyrene	74		66		35-142	11		50
Biphenyl	75		68		37-127	10		50
4-Chloroaniline	59		54		40-140	9		50
2-Nitroaniline	80		71		47-134	12		50

Lab Control Sample Analysis

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Lab Number: L2210848

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-19 Batch: WG1614960-2 WG1614960-3								
3-Nitroaniline	44		43		26-129	2		50
4-Nitroaniline	72		65		41-125	10		50
Dibenzofuran	73		66		40-140	10		50
2-Methylnaphthalene	73		67		40-140	9		50
1,2,4,5-Tetrachlorobenzene	80		70		40-117	13		50
Acetophenone	67		61		14-144	9		50
2,4,6-Trichlorophenol	84		75		30-130	11		50
p-Chloro-m-cresol	76		68		26-103	11		50
2-Chlorophenol	79		68		25-102	15		50
2,4-Dichlorophenol	80		73		30-130	9		50
2,4-Dimethylphenol	75		68		30-130	10		50
2-Nitrophenol	79		70		30-130	12		50
4-Nitrophenol	68		61		11-114	11		50
2,4-Dinitrophenol	74		65		4-130	13		50
4,6-Dinitro-o-cresol	84		74		10-130	13		50
Pentachlorophenol	76		69		17-109	10		50
Phenol	79		68		26-90	15		50
2-Methylphenol	77		69		30-130.	11		50
3-Methylphenol/4-Methylphenol	76		68		30-130	11		50
2,4,5-Trichlorophenol	83		75		30-130	10		50
Benzoic Acid	57		40		10-110	35		50
Benzyl Alcohol	73		64		40-140	13		50
Carbazole	74		68		54-128	8		50

Lab Control Sample Analysis

Batch Quality Control

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-19 Batch: WG1614960-2 WG1614960-3								
1,4-Dioxane	44		41		40-140	7		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	80		72		25-120
Phenol-d6	80		69		10-120
Nitrobenzene-d5	67		61		23-120
2-Fluorobiphenyl	76		68		30-120
2,4,6-Tribromophenol	88		81		10-136
4-Terphenyl-d14	74		70		18-120

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 20-32 Batch: WG1615016-2 WG1615016-3								
Acenaphthene	87		76		31-137	13		50
1,2,4-Trichlorobenzene	84		75		38-107	11		50
Hexachlorobenzene	92		80		40-140	14		50
Bis(2-chloroethyl)ether	76		68		40-140	11		50
2-Chloronaphthalene	90		80		40-140	12		50
1,2-Dichlorobenzene	80		71		40-140	12		50
1,3-Dichlorobenzene	79		69		40-140	14		50
1,4-Dichlorobenzene	79		70		28-104	12		50
3,3'-Dichlorobenzidine	71		50		40-140	35		50
2,4-Dinitrotoluene	92		81		40-132	13		50
2,6-Dinitrotoluene	99		85		40-140	15		50
Fluoranthene	92		78		40-140	16		50
4-Chlorophenyl phenyl ether	92		79		40-140	15		50
4-Bromophenyl phenyl ether	96		83		40-140	15		50
Bis(2-chloroisopropyl)ether	49		44		40-140	11		50
Bis(2-chloroethoxy)methane	82		72		40-117	13		50
Hexachlorobutadiene	93		83		40-140	11		50
Hexachlorocyclopentadiene	98		88		40-140	11		50
Hexachloroethane	79		70		40-140	12		50
Isophorone	82		71		40-140	14		50
Naphthalene	85		76		40-140	11		50
Nitrobenzene	81		73		40-140	10		50
NDPA/DPA	92		80		36-157	14		50

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 20-32 Batch: WG1615016-2 WG1615016-3								
n-Nitrosodi-n-propylamine	78		69		32-121	12		50
Bis(2-ethylhexyl)phthalate	94		82		40-140	14		50
Butyl benzyl phthalate	90		77		40-140	16		50
Di-n-butylphthalate	93		80		40-140	15		50
Di-n-octylphthalate	95		83		40-140	13		50
Diethyl phthalate	92		81		40-140	13		50
Dimethyl phthalate	94		80		40-140	16		50
Benzo(a)anthracene	89		78		40-140	13		50
Benzo(a)pyrene	100		86		40-140	15		50
Benzo(b)fluoranthene	88		75		40-140	16		50
Benzo(k)fluoranthene	93		80		40-140	15		50
Chrysene	90		79		40-140	13		50
Acenaphthylene	99		86		40-140	14		50
Anthracene	90		78		40-140	14		50
Benzo(ghi)perylene	92		80		40-140	14		50
Fluorene	91		80		40-140	13		50
Phenanthrene	90		77		40-140	16		50
Dibenzo(a,h)anthracene	90		78		40-140	14		50
Indeno(1,2,3-cd)pyrene	92		81		40-140	13		50
Pyrene	91		78		35-142	15		50
Biphenyl	91		79		37-127	14		50
4-Chloroaniline	78		62		40-140	23		50
2-Nitroaniline	98		85		47-134	14		50

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Lab Number: L2210848

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 20-32 Batch: WG1615016-2 WG1615016-3								
3-Nitroaniline	81		55		26-129	38		50
4-Nitroaniline	86		73		41-125	16		50
Dibenzofuran	92		80		40-140	14		50
2-Methylnaphthalene	90		80		40-140	12		50
1,2,4,5-Tetrachlorobenzene	97		85		40-117	13		50
Acetophenone	81		72		14-144	12		50
2,4,6-Trichlorophenol	107		93		30-130	14		50
p-Chloro-m-cresol	100		86		26-103	15		50
2-Chlorophenol	85		75		25-102	13		50
2,4-Dichlorophenol	97		85		30-130	13		50
2,4-Dimethylphenol	95		78		30-130	20		50
2-Nitrophenol	86		76		30-130	12		50
4-Nitrophenol	89		81		11-114	9		50
2,4-Dinitrophenol	89		79		4-130	12		50
4,6-Dinitro-o-cresol	96		84		10-130	13		50
Pentachlorophenol	97		82		17-109	17		50
Phenol	89		78		26-90	13		50
2-Methylphenol	90		78		30-130.	14		50
3-Methylphenol/4-Methylphenol	92		79		30-130	15		50
2,4,5-Trichlorophenol	106		92		30-130	14		50
Benzoic Acid	85		60		10-110	34		50
Benzyl Alcohol	89		77		40-140	14		50
Carbazole	92		79		54-128	15		50

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 20-32 Batch: WG1615016-2 WG1615016-3								
1,4-Dioxane	56		49		40-140	13		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	84		73		25-120
Phenol-d6	89		78		10-120
Nitrobenzene-d5	80		72		23-120
2-Fluorobiphenyl	93		81		30-120
2,4,6-Tribromophenol	99		86		10-136
4-Terphenyl-d14	84		72		18-120

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11,13,15 Batch: WG1616999-2 WG1616999-3								
Acenaphthene	58		65		31-137	11		50
1,2,4-Trichlorobenzene	58		60		38-107	3		50
Hexachlorobenzene	66		76		40-140	14		50
Bis(2-chloroethyl)ether	50		53		40-140	6		50
2-Chloronaphthalene	58		65		40-140	11		50
1,2-Dichlorobenzene	54		57		40-140	5		50
1,3-Dichlorobenzene	56		56		40-140	0		50
1,4-Dichlorobenzene	54		55		28-104	2		50
3,3'-Dichlorobenzidine	50		61		40-140	20		50
2,4-Dinitrotoluene	66		73		40-132	10		50
2,6-Dinitrotoluene	64		73		40-140	13		50
Fluoranthene	62		70		40-140	12		50
4-Chlorophenyl phenyl ether	57		68		40-140	18		50
4-Bromophenyl phenyl ether	65		72		40-140	10		50
Bis(2-chloroisopropyl)ether	44		46		40-140	4		50
Bis(2-chloroethoxy)methane	54		60		40-117	11		50
Hexachlorobutadiene	71		73		40-140	3		50
Hexachlorocyclopentadiene	48		50		40-140	4		50
Hexachloroethane	60		62		40-140	3		50
Isophorone	53		60		40-140	12		50
Naphthalene	58		60		40-140	3		50
Nitrobenzene	60		61		40-140	2		50
NDPA/DPA	61		70		36-157	14		50

Lab Control Sample Analysis
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Project Name: TOT2101
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11,13,15 Batch: WG1616999-2 WG1616999-3								
n-Nitrosodi-n-propylamine	56		60		32-121	7		50
Bis(2-ethylhexyl)phthalate	70		80		40-140	13		50
Butyl benzyl phthalate	68		78		40-140	14		50
Di-n-butylphthalate	69		76		40-140	10		50
Di-n-octylphthalate	68		78		40-140	14		50
Diethyl phthalate	67		78		40-140	15		50
Dimethyl phthalate	64		71		40-140	10		50
Benzo(a)anthracene	59		67		40-140	13		50
Benzo(a)pyrene	67		79		40-140	16		50
Benzo(b)fluoranthene	66		74		40-140	11		50
Benzo(k)fluoranthene	56		69		40-140	21		50
Chrysene	59		67		40-140	13		50
Acenaphthylene	64		70		40-140	9		50
Anthracene	60		66		40-140	10		50
Benzo(ghi)perylene	60		70		40-140	15		50
Fluorene	60		68		40-140	13		50
Phenanthrene	59		67		40-140	13		50
Dibenzo(a,h)anthracene	58		71		40-140	20		50
Indeno(1,2,3-cd)pyrene	65		77		40-140	17		50
Pyrene	62		72		35-142	15		50
Biphenyl	57		63		37-127	10		50
4-Chloroaniline	50		58		40-140	15		50
2-Nitroaniline	61		69		47-134	12		50

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11,13,15 Batch: WG1616999-2 WG1616999-3								
3-Nitroaniline	50		60		26-129	18		50
4-Nitroaniline	59		68		41-125	14		50
Dibenzofuran	61		68		40-140	11		50
2-Methylnaphthalene	59		66		40-140	11		50
1,2,4,5-Tetrachlorobenzene	62		68		40-117	9		50
Acetophenone	56		60		14-144	7		50
2,4,6-Trichlorophenol	66		71		30-130	7		50
p-Chloro-m-cresol	68		76		26-103	11		50
2-Chlorophenol	60		61		25-102	2		50
2,4-Dichlorophenol	60		65		30-130	8		50
2,4-Dimethylphenol	63		70		30-130	11		50
2-Nitrophenol	54		58		30-130	7		50
4-Nitrophenol	67		75		11-114	11		50
2,4-Dinitrophenol	54		66		4-130	20		50
4,6-Dinitro-o-cresol	59		67		10-130	13		50
Pentachlorophenol	62		72		17-109	15		50
Phenol	57		61		26-90	7		50
2-Methylphenol	56		62		30-130.	10		50
3-Methylphenol/4-Methylphenol	62		69		30-130	11		50
2,4,5-Trichlorophenol	66		72		30-130	9		50
Benzoic Acid	46		63		10-110	31		50
Benzyl Alcohol	65		69		40-140	6		50
Carbazole	60		69		54-128	14		50

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11,13,15 Batch: WG1616999-2 WG1616999-3								
1,4-Dioxane	**37**	Q	44		40-140	17		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	55		59		25-120
Phenol-d6	59		62		10-120
Nitrobenzene-d5	56		60		23-120
2-Fluorobiphenyl	57		63		30-120
2,4,6-Tribromophenol	74		81		10-136
4-Terphenyl-d14	58		65		18-120

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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: WG1617383-2 WG1617383-3								
Acenaphthene	71		78		31-137	9		50
1,2,4-Trichlorobenzene	67		73		38-107	9		50
Hexachlorobenzene	74		80		40-140	8		50
Bis(2-chloroethyl)ether	63		67		40-140	6		50
2-Chloronaphthalene	70		76		40-140	8		50
1,2-Dichlorobenzene	65		68		40-140	5		50
1,3-Dichlorobenzene	65		67		40-140	3		50
1,4-Dichlorobenzene	64		67		28-104	5		50
3,3'-Dichlorobenzidine	54		60		40-140	11		50
2,4-Dinitrotoluene	77		82		40-132	6		50
2,6-Dinitrotoluene	76		84		40-140	10		50
Fluoranthene	77		85		40-140	10		50
4-Chlorophenyl phenyl ether	74		80		40-140	8		50
4-Bromophenyl phenyl ether	76		84		40-140	10		50
Bis(2-chloroisopropyl)ether	43		47		40-140	9		50
Bis(2-chloroethoxy)methane	64		70		40-117	9		50
Hexachlorobutadiene	74		80		40-140	8		50
Hexachlorocyclopentadiene	71		77		40-140	8		50
Hexachloroethane	64		68		40-140	6		50
Isophorone	65		72		40-140	10		50
Naphthalene	70		73		40-140	4		50
Nitrobenzene	66		72		40-140	9		50
NDPA/DPA	75		83		36-157	10		50

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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: WG1617383-2 WG1617383-3								
n-Nitrosodi-n-propylamine	63		70		32-121	11		50
Bis(2-ethylhexyl)phthalate	77		87		40-140	12		50
Butyl benzyl phthalate	77		87		40-140	12		50
Di-n-butylphthalate	77		85		40-140	10		50
Di-n-octylphthalate	82		90		40-140	9		50
Diethyl phthalate	77		83		40-140	8		50
Dimethyl phthalate	74		80		40-140	8		50
Benzo(a)anthracene	75		82		40-140	9		50
Benzo(a)pyrene	85		93		40-140	9		50
Benzo(b)fluoranthene	74		82		40-140	10		50
Benzo(k)fluoranthene	79		87		40-140	10		50
Chrysene	77		82		40-140	6		50
Acenaphthylene	79		85		40-140	7		50
Anthracene	75		81		40-140	8		50
Benzo(ghi)perylene	76		83		40-140	9		50
Fluorene	75		82		40-140	9		50
Phenanthrene	74		81		40-140	9		50
Dibenzo(a,h)anthracene	74		81		40-140	9		50
Indeno(1,2,3-cd)pyrene	76		82		40-140	8		50
Pyrene	76		84		35-142	10		50
Biphenyl	70		76		37-127	8		50
4-Chloroaniline	60		67		40-140	11		50
2-Nitroaniline	76		82		47-134	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

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: WG1617383-2 WG1617383-3								
3-Nitroaniline	61		66		26-129	8		50
4-Nitroaniline	66		71		41-125	7		50
Dibenzofuran	75		82		40-140	9		50
2-Methylnaphthalene	71		77		40-140	8		50
1,2,4,5-Tetrachlorobenzene	76		82		40-117	8		50
Acetophenone	64		70		14-144	9		50
2,4,6-Trichlorophenol	81		88		30-130	8		50
p-Chloro-m-cresol	79		83		26-103	5		50
2-Chlorophenol	67		73		25-102	9		50
2,4-Dichlorophenol	74		80		30-130	8		50
2,4-Dimethylphenol	72		80		30-130	11		50
2-Nitrophenol	66		72		30-130	9		50
4-Nitrophenol	81		90		11-114	11		50
2,4-Dinitrophenol	62		70		4-130	12		50
4,6-Dinitro-o-cresol	75		83		10-130	10		50
Pentachlorophenol	74		84		17-109	13		50
Phenol	70		76		26-90	8		50
2-Methylphenol	69		76		30-130.	10		50
3-Methylphenol/4-Methylphenol	76		82		30-130	8		50
2,4,5-Trichlorophenol	82		88		30-130	7		50
Benzoic Acid	53		50		10-110	6		50
Benzyl Alcohol	70		75		40-140	7		50
Carbazole	78		84		54-128	7		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

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: WG1617383-2 WG1617383-3								
1,4-Dioxane	44		46		40-140	4		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	64		73		25-120
Phenol-d6	69		77		10-120
Nitrobenzene-d5	63		73		23-120
2-Fluorobiphenyl	70		77		30-120
2,4,6-Tribromophenol	76		86		10-136
4-Terphenyl-d14	68		77		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 17 Batch: WG1617672-2								
Perfluorobutanoic Acid (PFBA)	99		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	98		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	95		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	98		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	98		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	123		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	100		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	116		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	96		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	101		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	115		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	100		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	109		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	107		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	93		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	97		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	97		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	93		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	98		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	122		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	113		-		69-133	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 17 Batch: WG1617672-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	90				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	85				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	88				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	94				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	97				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	93				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	98				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	80				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	99				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	27				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	82				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	96				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	69				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 17 Batch: WG1617672-2								
Perfluorooctanesulfonamide (FOSA)	111		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	94				10-117

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 14 Batch: WG1618532-2 WG1618532-3								
Acenaphthene	81		97		31-137	18		50
1,2,4-Trichlorobenzene	80		101		38-107	23		50
Hexachlorobenzene	94		117		40-140	22		50
Bis(2-chloroethyl)ether	70		87		40-140	22		50
2-Chloronaphthalene	80		101		40-140	23		50
1,2-Dichlorobenzene	74		94		40-140	24		50
1,3-Dichlorobenzene	77		94		40-140	20		50
1,4-Dichlorobenzene	72		88		28-104	20		50
3,3'-Dichlorobenzidine	72		73		40-140	1		50
2,4-Dinitrotoluene	84		107		40-132	24		50
2,6-Dinitrotoluene	87		111		40-140	24		50
Fluoranthene	85		102		40-140	18		50
4-Chlorophenyl phenyl ether	84		95		40-140	12		50
4-Bromophenyl phenyl ether	91		110		40-140	19		50
Bis(2-chloroisopropyl)ether	58		73		40-140	23		50
Bis(2-chloroethoxy)methane	72		93		40-117	25		50
Hexachlorobutadiene	93		120		40-140	25		50
Hexachlorocyclopentadiene	67		92		40-140	31		50
Hexachloroethane	83		103		40-140	22		50
Isophorone	75		93		40-140	21		50
Naphthalene	77		97		40-140	23		50
Nitrobenzene	80		101		40-140	23		50
NDPA/DPA	83		102		36-157	21		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 14 Batch: WG1618532-2 WG1618532-3								
n-Nitrosodi-n-propylamine	74		96		32-121	26		50
Bis(2-ethylhexyl)phthalate	102		124		40-140	19		50
Butyl benzyl phthalate	95		115		40-140	19		50
Di-n-butylphthalate	98		117		40-140	18		50
Di-n-octylphthalate	100		126		40-140	23		50
Diethyl phthalate	94		112		40-140	17		50
Dimethyl phthalate	86		108		40-140	23		50
Benzo(a)anthracene	84		105		40-140	22		50
Benzo(a)pyrene	95		116		40-140	20		50
Benzo(b)fluoranthene	94		110		40-140	16		50
Benzo(k)fluoranthene	79		99		40-140	22		50
Chrysene	82		102		40-140	22		50
Acenaphthylene	84		109		40-140	26		50
Anthracene	83		98		40-140	17		50
Benzo(ghi)perylene	84		102		40-140	19		50
Fluorene	84		99		40-140	16		50
Phenanthrene	82		100		40-140	20		50
Dibenzo(a,h)anthracene	84		102		40-140	19		50
Indeno(1,2,3-cd)pyrene	90		113		40-140	23		50
Pyrene	85		102		35-142	18		50
Biphenyl	78		100		37-127	25		50
4-Chloroaniline	82		98		40-140	18		50
2-Nitroaniline	85		102		47-134	18		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 14 Batch: WG1618532-2 WG1618532-3								
3-Nitroaniline	70		61		26-129	14		50
4-Nitroaniline	78		97		41-125	22		50
Dibenzofuran	84		99		40-140	16		50
2-Methylnaphthalene	72		140		40-140	**64**	Q	50
1,2,4,5-Tetrachlorobenzene	84		108		40-117	25		50
Acetophenone	77		97		14-144	23		50
2,4,6-Trichlorophenol	88		110		30-130	22		50
p-Chloro-m-cresol	96		**121**	Q	26-103	23		50
2-Chlorophenol	80		100		25-102	22		50
2,4-Dichlorophenol	83		107		30-130	25		50
2,4-Dimethylphenol	84		108		30-130	25		50
2-Nitrophenol	76		98		30-130	25		50
4-Nitrophenol	84		108		11-114	25		50
2,4-Dinitrophenol	80		92		4-130	14		50
4,6-Dinitro-o-cresol	79		100		10-130	23		50
Pentachlorophenol	84		105		17-109	22		50
Phenol	80		**101**	Q	26-90	23		50
2-Methylphenol	80		99		30-130.	21		50
3-Methylphenol/4-Methylphenol	78		98		30-130	23		50
2,4,5-Trichlorophenol	94		116		30-130	21		50
Benzoic Acid	94		**113**	Q	10-110	18		50
Benzyl Alcohol	90		110		40-140	20		50
Carbazole	82		99		54-128	19		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 14 Batch: WG1618532-2 WG1618532-3								
1,4-Dioxane	54		61		40-140	12		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	79		102		25-120
Phenol-d6	82		103		10-120
Nitrobenzene-d5	78		101		23-120
2-Fluorobiphenyl	80		101		30-120
2,4,6-Tribromophenol	104		127		10-136
4-Terphenyl-d14	83		100		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101 ***Lab Number:*** L2210848

Project Number: TOT2101 ***Report Date:*** 03/28/22

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1611670-3 WG1611670-4 QC Sample: L2210848-01 Client ID: SB010 0-2												
Perfluorobutanoic Acid (PFBA)	ND	5.11	4.62	90		4.48	91		71-135	3		30
Perfluoropentanoic Acid (PFPeA)	ND	5.11	4.59	90		4.45	90		69-132	3		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.54	4.19	92		4.10	94		72-128	2		30
Perfluorohexanoic Acid (PFHxA)	ND	5.11	4.65	91		4.50	91		70-132	3		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.11	4.73	93		4.62	94		71-131	2		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.67	4.79	103		4.64	103		67-130	3		30
Perfluorooctanoic Acid (PFOA)	0.070J	5.11	4.65	90		4.66	93		69-133	0		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.86	5.03	103		4.69	100		64-140	7		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.88	4.64	95		4.65	99		70-132	0		30
Perfluorononanoic Acid (PFNA)	ND	5.11	4.82	94		4.51	92		72-129	7		30
Perfluorooctanesulfonic Acid (PFOS)	0.158J	4.74	4.85	99		4.85	103		68-136	0		30
Perfluorodecanoic Acid (PFDA)	ND	5.11	4.54	89		4.29	87		69-133	6		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.91	5.50	112		4.70	99		65-137	16		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.11	4.54	89		4.73	96		63-144	4		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.11	4.72	92		4.47	91		64-136	5		30
Perfluorodecanesulfonic Acid (PFDS)	ND	4.94	4.47	91		4.66	98		59-134	4		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.11	5.16	101		4.92	100		61-139	5		30
Perfluorododecanoic Acid (PFDoA)	ND	5.11	4.95	97		4.77	97		69-135	4		30
Perfluorotridecanoic Acid (PFTrDA)	ND	5.11	5.55	109		5.36	109		66-139	3		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.11	4.78	94		4.46	91		69-133	7		30

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1611670-3 WG1611670-4 QC Sample: L2210848-01 Client ID: SB010 0-2												

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	90		108		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	90		92		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	82		86		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	75		74		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	109		109		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	107		106		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	97		91		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	102		95		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	113		113		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	109		106		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	100		100		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		100		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	107		104		58-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	112		105		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	107		101		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	104		101		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	111		108		74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101 ***Lab Number:*** L2210848

Project Number: TOT2101 ***Report Date:*** 03/28/22

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1611670-5 WG1611670-6 QC Sample: L2210848-09 Client ID: SB008 0-2												
Perfluorobutanoic Acid (PFBA)	ND	4.96	4.48	90		4.59	91		71-135	2		30
Perfluoropentanoic Acid (PFPeA)	ND	4.96	4.48	90		4.62	92		69-132	3		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.4	4.03	92		4.05	90		72-128	0		30
Perfluorohexanoic Acid (PFHxA)	ND	4.96	4.58	92		4.67	93		70-132	2		30
Perfluoroheptanoic Acid (PFHpA)	ND	4.96	4.49	91		4.58	91		71-131	2		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.53	4.81	106		4.96	108		67-130	3		30
Perfluorooctanoic Acid (PFOA)	0.069JF	4.96	4.34	86		4.62	90		69-133	6		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.72	4.81	102		4.87	101		64-140	1		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.73	4.68	99		4.74	98		70-132	1		30
Perfluorononanoic Acid (PFNA)	ND	4.96	4.70	95		4.58	91		72-129	3		30
Perfluorooctanesulfonic Acid (PFOS)	0.160J	4.6	4.86	102		4.90	101		68-136	1		30
Perfluorodecanoic Acid (PFDA)	ND	4.96	4.29	87		4.46	88		69-133	4		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.76	5.10	107		5.26	109		65-137	3		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	4.96	4.74	96		4.43	88		63-144	7		30
Perfluoroundecanoic Acid (PFUnA)	ND	4.96	4.70	95		4.72	94		64-136	0		30
Perfluorodecanesulfonic Acid (PFDS)	ND	4.79	4.55	95		4.83	99		59-134	6		30
Perfluorooctanesulfonamide (FOSA)	ND	4.96	4.44	90		4.37	87		67-137	2		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	4.96	4.73	95		4.48	89		61-139	5		30
Perfluorododecanoic Acid (PFDoA)	ND	4.96	4.66	94		4.74	94		69-135	2		30
Perfluorotridecanoic Acid (PFTrDA)	ND	4.96	5.58	113		5.59	111		66-139	0		30
Perfluorotetradecanoic Acid (PFTA)	ND	4.96	5.00	101		4.92	98		69-133	2		30

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1611670-5 WG1611670-6 QC Sample: L2210848-09 Client ID: SB008 0-2												

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	92		86		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	88		85		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	73		80		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	67		68		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		103		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	103		105		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	97		102		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	102		106		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	112		108		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100		102		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86		90		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		104		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103		105		58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	92		33		10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107		105		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	105		108		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	101		109		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	113		111		74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 37-38 QC Batch ID: WG1613390-3 WG1613390-4 QC Sample: L2211786-01 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	147G	38.8	184	95		179	85		67-148	3		30
Perfluoropentanoic Acid (PFPeA)	502	38.8	545G	111		544G	111		63-161	0		30
Perfluorobutanesulfonic Acid (PFBS)	0.502J	34.5	33.1	94		30.7	90		65-157	8		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	14.4	36.4	51.4	102		47.6	94		37-219	8		30
Perfluorohexanoic Acid (PFHxA)	1600E	38.8	1670E	**180**	Q	1640E	106		69-168	2		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	36.6	35.5	97		33.9	95		52-156	5		30
Perfluoroheptanoic Acid (PFHpA)	539	38.8	589	129		572	87		58-159	3		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	35.5	37.3	105		36.4	105		69-177	2		30
Perfluorooctanoic Acid (PFOA)	270	38.8	317	121		284	**37**	Q	63-159	11		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	37.1	11.0	**30**	Q	10.8	**30**	Q	61-179	2		30
Perfluorononanoic Acid (PFNA)	145	38.8	176	80		176	82		68-171	0		30
Perfluorooctanesulfonic Acid (PFOS)	ND	36	39.5F	110		40.0F	114		52-151	1		30
Perfluorodecanoic Acid (PFDA)	136	38.8	164	72		157	**56**	Q	63-171	4		30
Perfluorononanesulfonic Acid (PFNS)	ND	37.4	38.8	104		38.9	107		48-150	0		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	38.8	35.5	91		31.0	82		60-166	14		30
Perfluoroundecanoic Acid (PFUnA)	11.7	38.8	43.3	81		41.0	78		60-153	5		30
Perfluorodecanesulfonic Acid (PFDS)	ND	37.5	41.9	112		43.8	120		38-156	4		30
Perfluorooctanesulfonamide (FOSA)	ND	38.8	31.9	82		30.9	82		46-170	3		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	38.8	30.8	79		32.6	86		45-170	6		30
Perfluorododecanoic Acid (PFDoA)	17.5	38.8	48.9	81		48.1	81		67-153	2		30
Perfluorotridecanoic Acid (PFTrDA)	3.78	38.8	44.9	106		40.8	98		48-158	10		30
Perfluorotetradecanoic Acid (PFTA)	6.01	38.8	41.0	90		38.9	87		59-182	5		30

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 37-38 QC Batch ID: WG1613390-3 WG1613390-4 QC Sample: L2211786-01 Client ID: MS Sample												

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	**217**	Q	**205**	Q	12-142
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**174**	Q	**158**	Q	27-126
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**140**	Q	**148**	Q	24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	**171**	Q	**170**	Q	55-137
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	99		99		62-124
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	**215**	Q	**238**	Q	57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	**288**	Q	**326**	Q	60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	134		122		71-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	**157**	Q	**157**	Q	48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	**147**	Q	**151**	Q	22-136
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		90		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		98		62-163
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	66		61		10-112
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108		94		69-131
Perfluoro[13C8]Octanoic Acid (M8PFOA)	102		110		62-129
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	**285**	Q	**311**	Q	59-139
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	**134**	Q	126		70-131

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101 ***Lab Number:*** L2210848

Project Number: TOT2101 ***Report Date:*** 03/28/22

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 21-35 QC Batch ID: WG1613825-3 WG1613825-4 QC Sample: L2212104-03 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	5.32	4.72	89		4.33	88		71-135	9		30
Perfluoropentanoic Acid (PFPeA)	ND	5.32	4.70	88		4.36	89		69-132	8		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.72	4.13	87		3.88	89		72-128	6		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.98	4.70	94		4.22	92		62-145	11		30
Perfluorohexanoic Acid (PFHxA)	ND	5.32	4.74	89		4.44	91		70-132	7		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	5	4.44	89		4.07	88		73-123	9		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.32	4.78	90		4.38	89		71-131	9		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.86	4.82	99		4.47	100		67-130	8		30
Perfluorooctanoic Acid (PFOA)	ND	5.32	4.54	85		4.16	85		69-133	9		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.06	5.03	99		4.80	103		64-140	5		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.08	4.88	96		4.44	95		70-132	9		30
Perfluorononanoic Acid (PFNA)	ND	5.32	4.81	90		4.35	89		72-129	10		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.94	4.85	98		4.51	99		68-136	7		30
Perfluorodecanoic Acid (PFDA)	ND	5.32	4.60	87		4.47	91		69-133	3		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.11	5.59	109		5.22	111		65-137	7		30
Perfluorononanesulfonic Acid (PFNS)	ND	5.12	5.26	103		4.63	98		69-125	13		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.32	4.56	86		4.35	89		63-144	5		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.32	4.84	91		4.36	89		64-136	10		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.14	5.14	100		4.71	99		59-134	9		30
Perfluorooctanesulfonamide (FOSA)	ND	5.32	4.58	86		4.25	87		67-137	7		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.32	4.37	82		4.13	84		61-139	6		30
Perfluorododecanoic Acid (PFDoA)	ND	5.32	4.94	93		4.59	94		69-135	7		30

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 21-35 QC Batch ID: WG1613825-3 WG1613825-4 QC Sample: L2212104-03 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	5.32	5.84	110		5.20	106		66-139	12		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.32	4.94	93		4.59	94		69-133	7		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	96		87		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	73		74		14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	87		83		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	108		105		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	77		76		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103		104		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	103		100		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	94		91		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	97		96		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	104		103		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	102		105		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	97		95		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	98		99		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103		103		58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	82		83		10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	97		95		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		103		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	102		101		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103		101		74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

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): 02-19 QC Batch ID: WG1614960-6 WG1614960-7 QC Sample: L2210848-09 Client ID: SB008 0-2												
Acenaphthene	ND	1440	1100	77		910	63		31-137	19		50
1,2,4-Trichlorobenzene	ND	1440	1100	77		960	67		38-107	14		50
Hexachlorobenzene	ND	1440	1200	84		950	66		40-140	23		50
Bis(2-chloroethyl)ether	ND	1440	1100	77		910	63		40-140	19		50
2-Chloronaphthalene	ND	1440	1100	77		980	68		40-140	12		50
1,2-Dichlorobenzene	ND	1440	1100	77		890	62		40-140	21		50
1,3-Dichlorobenzene	ND	1440	1000	70		890	62		40-140	12		50
1,4-Dichlorobenzene	ND	1440	1000	70		900	62		28-104	11		50
3,3'-Dichlorobenzidine	ND	1440	710	49		750	52		40-140	5		50
2,4-Dinitrotoluene	ND	1440	1200	84		960	67		40-132	22		50
2,6-Dinitrotoluene	ND	1440	1200	84		1000	69		40-140	18		50
Fluoranthene	61J	1440	1200	84		860	60		40-140	33		50
4-Chlorophenyl phenyl ether	ND	1440	1100	77		950	66		40-140	15		50
4-Bromophenyl phenyl ether	ND	1440	1100	77		910	63		40-140	19		50
Bis(2-chloroisopropyl)ether	ND	1440	960	67		850	59		40-140	12		50
Bis(2-chloroethoxy)methane	ND	1440	1100	77		890	62		40-117	21		50
Hexachlorobutadiene	ND	1440	1100	77		950	66		40-140	15		50
Hexachlorocyclopentadiene	ND	1440	440J	**31**	Q	230J	**16**	Q	40-140	**63**	Q	50
Hexachloroethane	ND	1440	1000	70		850	59		40-140	16		50
Isophorone	ND	1440	960	67		850	59		40-140	12		50
Naphthalene	ND	1440	1100	77		950	66		40-140	15		50
Nitrobenzene	ND	1440	980	68		820	57		40-140	18		50
NDPA/DPA	ND	1440	1100	77		950	66		36-157	15		50

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

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): 02-19 QC Batch ID: WG1614960-6 WG1614960-7 QC Sample: L2210848-09 Client ID: SB008 0-2												
n-Nitrosodi-n-propylamine	ND	1440	970	68		820	57		32-121	17		50
Bis(2-ethylhexyl)phthalate	ND	1440	1100	77		990	69		40-140	11		50
Butyl benzyl phthalate	ND	1440	920	64		800	56		40-140	14		50
Di-n-butylphthalate	ND	1440	1100	77		920	64		40-140	18		50
Di-n-octylphthalate	ND	1440	1100	77		920	64		40-140	18		50
Diethyl phthalate	ND	1440	1100	77		920	64		40-140	18		50
Dimethyl phthalate	ND	1440	1100	77		960	67		40-140	14		50
Benzo(a)anthracene	28J	1440	1200	84		960	67		40-140	22		50
Benzo(a)pyrene	ND	1440	1200	84		940	65		40-140	24		50
Benzo(b)fluoranthene	32J	1440	1000	70		860	60		40-140	15		50
Benzo(k)fluoranthene	ND	1440	1100	77		940	65		40-140	16		50
Chrysene	32J	1440	1200	84		980	68		40-140	20		50
Acenaphthylene	ND	1440	1100	77		980	68		40-140	12		50
Anthracene	ND	1440	1100	77		970	67		40-140	13		50
Benzo(ghi)perylene	ND	1440	1200	84		1000	69		40-140	18		50
Fluorene	ND	1440	1100	77		930	65		40-140	17		50
Phenanthrene	42J	1440	1200	84		980	68		40-140	20		50
Dibenzo(a,h)anthracene	ND	1440	1300	91		970	67		40-140	29		50
Indeno(1,2,3-cd)pyrene	ND	1440	1300	91		970	67		40-140	29		50
Pyrene	52J	1440	1200	84		880	61		35-142	31		50
Biphenyl	ND	1440	1100	77		970	67		37-127	13		50
4-Chloroaniline	ND	1440	660	46		600	42		40-140	10		50
2-Nitroaniline	ND	1440	1200	84		1000	69		47-134	18		50

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

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): 02-19 QC Batch ID: WG1614960-6 WG1614960-7 QC Sample: L2210848-09 Client ID: SB008 0-2												
3-Nitroaniline	ND	1440	820	57		760	53		26-129	8		50
4-Nitroaniline	ND	1440	1100	77		900	62		41-125	20		50
Dibenzofuran	ND	1440	1100	77		940	65		40-140	16		50
2-Methylnaphthalene	ND	1440	1100	77		990	69		40-140	11		50
1,2,4,5-Tetrachlorobenzene	ND	1440	1200	84		1000	69		40-117	18		50
Acetophenone	ND	1440	1000	70		890	62		14-144	12		50
2,4,6-Trichlorophenol	ND	1440	1300	91		1100	76		30-130	17		50
p-Chloro-m-cresol	ND	1440	1100	77		990	69		26-103	11		50
2-Chlorophenol	ND	1440	1200	84		1000	69		25-102	18		50
2,4-Dichlorophenol	ND	1440	1200	84		1000	69		30-130	18		50
2,4-Dimethylphenol	ND	1440	1100	77		890	62		30-130	21		50
2-Nitrophenol	ND	1440	1200	84		990	69		30-130	19		50
4-Nitrophenol	ND	1440	1000	70		850	59		11-114	16		50
2,4-Dinitrophenol	ND	1440	320J	22		170J	12		4-130	**61**	Q	50
4,6-Dinitro-o-cresol	ND	1440	840	59		350J	24		10-130	**82**	Q	50
Pentachlorophenol	ND	1440	1400	98		1000	69		17-109	33		50
Phenol	ND	1440	1200	84		990	69		26-90	19		50
2-Methylphenol	ND	1440	1100	77		960	67		30-130.	14		50
3-Methylphenol/4-Methylphenol	ND	1440	1100	77		950	66		30-130	15		50
2,4,5-Trichlorophenol	ND	1440	1300	91		1100	76		30-130	17		50
Benzoic Acid	ND	1440	ND	**0**	Q	ND	**0**	Q	10-110	NC		50
Benzyl Alcohol	ND	1440	1100	77		910	63		40-140	19		50
Carbazole	ND	1440	1200	84		1000	69		54-128	18		50

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

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): 02-19 QC Batch ID: WG1614960-6 WG1614960-7 QC Sample: L2210848-09 Client ID: SB008 0-2												
1,4-Dioxane	ND	1440	590	41		520	**36**	Q	40-140	13		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	93		77		10-136
2-Fluorobiphenyl	68		61		30-120
2-Fluorophenol	77		67		25-120
4-Terphenyl-d14	64		45		18-120
Nitrobenzene-d5	67		59		23-120
Phenol-d6	75		68		10-120

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

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 QC Batch ID: WG1617383-4 WG1617383-5 QC Sample: L2210848-01 Client ID: SB010 0-2												
Acenaphthene	24J	1440	1100	76		1000	70		31-137	10		50
1,2,4-Trichlorobenzene	ND	1440	1000	69		960	67		38-107	4		50
Hexachlorobenzene	ND	1440	1000	69		1000	70		40-140	0		50
Bis(2-chloroethyl)ether	ND	1440	910	63		850	59		40-140	7		50
2-Chloronaphthalene	ND	1440	1000	69		980	68		40-140	2		50
1,2-Dichlorobenzene	ND	1440	970	67		900	63		40-140	7		50
1,3-Dichlorobenzene	ND	1440	940	65		870	61		40-140	8		50
1,4-Dichlorobenzene	ND	1440	950	66		880	61		28-104	8		50
3,3'-Dichlorobenzidine	ND	1440	610	42		640	45		40-140	5		50
2,4-Dinitrotoluene	ND	1440	1000	69		920	64		40-132	8		50
2,6-Dinitrotoluene	ND	1440	1100	76		970	68		40-140	13		50
Fluoranthene	700	1440	1900	83		1900	84		40-140	0		50
4-Chlorophenyl phenyl ether	ND	1440	1000	69		970	68		40-140	3		50
4-Bromophenyl phenyl ether	ND	1440	1100	76		1000	70		40-140	10		50
Bis(2-chloroisopropyl)ether	ND	1440	630	44		590	41		40-140	7		50
Bis(2-chloroethoxy)methane	ND	1440	940	65		890	62		40-117	5		50
Hexachlorobutadiene	ND	1440	1100	76		1100	77		40-140	0		50
Hexachlorocyclopentadiene	ND	1440	790	55		590	41		40-140	29		50
Hexachloroethane	ND	1440	940	65		890	62		40-140	5		50
Isophorone	ND	1440	950	66		910	64		40-140	4		50
Naphthalene	25J	1440	1100	76		990	69		40-140	11		50
Nitrobenzene	ND	1440	980	68		940	66		40-140	4		50
NDPA/DPA	ND	1440	1100	76		1000	70		36-157	10		50

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

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 QC Batch ID: WG1617383-4 WG1617383-5 QC Sample: L2210848-01 Client ID: SB010 0-2												
n-Nitrosodi-n-propylamine	ND	1440	930	65		880	61		32-121	6		50
Bis(2-ethylhexyl)phthalate	ND	1440	1100	76		1000	70		40-140	10		50
Butyl benzyl phthalate	ND	1440	1000	69		970	68		40-140	3		50
Di-n-butylphthalate	ND	1440	1100	76		1000	70		40-140	10		50
Di-n-octylphthalate	ND	1440	1100	76		1000	70		40-140	10		50
Diethyl phthalate	ND	1440	1100	76		980	68		40-140	12		50
Dimethyl phthalate	ND	1440	1000	69		940	66		40-140	6		50
Benzo(a)anthracene	300	1440	1500	83		1400	77		40-140	7		50
Benzo(a)pyrene	360	1440	1600	86		1500	80		40-140	6		50
Benzo(b)fluoranthene	460	1440	1600	79		1400	66		40-140	13		50
Benzo(k)fluoranthene	160	1440	1200	72		1200	73		40-140	0		50
Chrysene	370	1440	1400	71		1400	72		40-140	0		50
Acenaphthylene	ND	1440	1200	83		1100	77		40-140	9		50
Anthracene	70J	1440	1200	83		1100	77		40-140	9		50
Benzo(ghi)perylene	330	1440	1500	81		1300	68		40-140	14		50
Fluorene	20J	1440	1100	76		1100	77		40-140	0		50
Phenanthrene	360	1440	1600	86		1600	87		40-140	0		50
Dibenzo(a,h)anthracene	58J	1440	1100	76		1000	70		40-140	10		50
Indeno(1,2,3-cd)pyrene	310	1440	1500	83		1400	76		40-140	7		50
Pyrene	600	1440	1800	83		1800	84		35-142	0		50
Biphenyl	ND	1440	1000	69		970	68		37-127	3		50
4-Chloroaniline	ND	1440	870	60		820	57		40-140	6		50
2-Nitroaniline	ND	1440	1100	76		1000	70		47-134	10		50

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

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 QC Batch ID: WG1617383-4 WG1617383-5 QC Sample: L2210848-01 Client ID: SB010 0-2												
3-Nitroaniline	ND	1440	930	65		940	66		26-129	1		50
4-Nitroaniline	ND	1440	900	62		860	60		41-125	5		50
Dibenzofuran	ND	1440	1100	76		1000	70		40-140	10		50
2-Methylnaphthalene	ND	1440	1100	76		1000	70		40-140	10		50
1,2,4,5-Tetrachlorobenzene	ND	1440	1200	83		1100	77		40-117	9		50
Acetophenone	ND	1440	980	68		900	63		14-144	9		50
2,4,6-Trichlorophenol	ND	1440	1200	83		1100	77		30-130	9		50
p-Chloro-m-cresol	ND	1440	1100	76		1100	77		26-103	0		50
2-Chlorophenol	ND	1440	1000	69		960	67		25-102	4		50
2,4-Dichlorophenol	ND	1440	1100	76		1100	77		30-130	0		50
2,4-Dimethylphenol	ND	1440	1000	69		1000	70		30-130	0		50
2-Nitrophenol	ND	1440	910	63		770	54		30-130	17		50
4-Nitrophenol	ND	1440	1100	76		990	69		11-114	11		50
2,4-Dinitrophenol	ND	1440	140J	10		97J	7		4-130	36		50
4,6-Dinitro-o-cresol	ND	1440	180J	12		ND	**0**	Q	10-130	NC		50
Pentachlorophenol	ND	1440	1100	76		1000	70		17-109	10		50
Phenol	ND	1440	1000	69		1000	70		26-90	0		50
2-Methylphenol	ND	1440	1000	69		970	68		30-130.	3		50
3-Methylphenol/4-Methylphenol	ND	1440	1100	76		1000	70		30-130	10		50
2,4,5-Trichlorophenol	ND	1440	1200	83		1100	77		30-130	9		50
Benzoic Acid	ND	1440	ND	**0**	Q	ND	**0**	Q	10-110	NC		50
Benzyl Alcohol	ND	1440	1000	69		980	68		40-140	2		50
Carbazole	45J	1440	1200	83		1100	77		54-128	9		50

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

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 QC Batch ID: WG1617383-4 WG1617383-5 QC Sample: L2210848-01 Client ID: SB010 0-2												
1,4-Dioxane	ND	1440	640	44		540	**38**	Q	40-140	17		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	77		72		10-136
2-Fluorobiphenyl	73		67		30-120
2-Fluorophenol	67		63		25-120
4-Terphenyl-d14	68		62		18-120
Nitrobenzene-d5	67		63		23-120
Phenol-d6	70		68		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101 ***Lab Number:*** L2210848

Project Number: TOT2101 ***Report Date:*** 03/28/22

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 17 QC Batch ID: WG1617672-3 WG1617672-4 QC Sample: L2212488-05 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	5.25	5.10	97		5.01	96		71-135	2		30
Perfluoropentanoic Acid (PFPeA)	ND	5.25	5.16	98		5.03	96		69-132	3		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.66	4.44	95		4.20	90		72-128	6		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.91	6.09	124		5.75	117		62-145	6		30
Perfluorohexanoic Acid (PFHxA)	ND	5.25	5.12	98		5.12	98		70-132	0		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	4.93	5.12	104		5.06	103		73-123	1		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.25	5.07	97		5.01	96		71-131	1		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.8	5.62	117		5.27	110		67-130	6		30
Perfluorooctanoic Acid (PFOA)	ND	5.25	5.12	98		5.10	97		69-133	0		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5	5.69	114		6.00	120		64-140	5		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.01	4.86	97		4.70	94		70-132	3		30
Perfluorononanoic Acid (PFNA)	ND	5.25	5.14	98		5.00	96		72-129	3		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.87	5.45	112		5.39	111		68-136	1		30
Perfluorodecanoic Acid (PFDA)	ND	5.25	5.43	103		5.04	96		69-133	7		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.04	5.73	114		5.50	109		65-137	4		30
Perfluorononanesulfonic Acid (PFNS)	ND	5.05	4.90	97		4.71	94		69-125	4		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.25	5.32	101		5.28F	101		63-144	1		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.25	5.01	96		4.95	95		64-136	1		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.07	4.83	95		4.76	94		59-134	1		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.25	6.04	115		5.14	98		61-139	16		30
Perfluorododecanoic Acid (PFDoA)	ND	5.25	4.85	92		4.63	88		69-135	5		30
Perfluorotridecanoic Acid (PFTrDA)	ND	5.25	5.89	112		5.78	110		66-139	2		30

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 17 QC Batch ID: WG1617672-3 WG1617672-4 QC Sample: L2212488-05 Client ID: MS Sample												
Perfluorotetradecanoic Acid (PFTA)	ND	5.25	5.55	106		5.60	107		69-133	1		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	129		140		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	109		115		14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	129		132		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	88		98		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	93		100		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102		106		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		101		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		91		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		95		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	103		107		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100		113		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	81		86		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		96		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		100		58-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103		105		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98		99		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	103		105		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		102		74-139

PCBS

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-01
Client ID: SB010 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:20
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/14/22 23:01
Analyst: WR
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 17:37
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.6	3.07	1	A
Aroclor 1221	ND		ug/kg	34.6	3.47	1	A
Aroclor 1232	ND		ug/kg	34.6	7.33	1	A
Aroclor 1242	ND		ug/kg	34.6	4.66	1	A
Aroclor 1248	ND		ug/kg	34.6	5.19	1	A
Aroclor 1254	ND		ug/kg	34.6	3.78	1	A
Aroclor 1260	ND		ug/kg	34.6	6.39	1	A
Aroclor 1262	ND		ug/kg	34.6	4.39	1	A
Aroclor 1268	ND		ug/kg	34.6	3.58	1	A
PCBs, Total	ND		ug/kg	34.6	3.07	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-02
Client ID: SB008 12-14
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/14/22 23:43
Analyst: WR
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 17:37
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.8	3.18	1	A
Aroclor 1221	ND		ug/kg	35.8	3.59	1	A
Aroclor 1232	ND		ug/kg	35.8	7.60	1	A
Aroclor 1242	ND		ug/kg	35.8	4.83	1	A
Aroclor 1248	ND		ug/kg	35.8	5.38	1	A
Aroclor 1254	ND		ug/kg	35.8	3.92	1	A
Aroclor 1260	ND		ug/kg	35.8	6.62	1	A
Aroclor 1262	ND		ug/kg	35.8	4.55	1	A
Aroclor 1268	ND		ug/kg	35.8	3.71	1	A
PCBs, Total	ND		ug/kg	35.8	3.18	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	A
Decachlorobiphenyl	38		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	47		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-03
Client ID: SB006 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/14/22 23:50
Analyst: WR
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 17:37
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.9	3.10	1	A
Aroclor 1221	ND		ug/kg	34.9	3.49	1	A
Aroclor 1232	ND		ug/kg	34.9	7.39	1	A
Aroclor 1242	ND		ug/kg	34.9	4.70	1	A
Aroclor 1248	ND		ug/kg	34.9	5.23	1	A
Aroclor 1254	ND		ug/kg	34.9	3.81	1	A
Aroclor 1260	ND		ug/kg	34.9	6.44	1	A
Aroclor 1262	ND		ug/kg	34.9	4.43	1	A
Aroclor 1268	ND		ug/kg	34.9	3.61	1	A
PCBs, Total	ND		ug/kg	34.9	3.10	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-04
Client ID: SB006 3-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/14/22 23:57
Analyst: WR
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 17:37
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	3.21	1	A
Aroclor 1221	ND		ug/kg	36.2	3.62	1	A
Aroclor 1232	ND		ug/kg	36.2	7.67	1	A
Aroclor 1242	ND		ug/kg	36.2	4.88	1	A
Aroclor 1248	ND		ug/kg	36.2	5.43	1	A
Aroclor 1254	ND		ug/kg	36.2	3.96	1	A
Aroclor 1260	ND		ug/kg	36.2	6.69	1	A
Aroclor 1262	ND		ug/kg	36.2	4.59	1	A
Aroclor 1268	ND		ug/kg	36.2	3.75	1	A
PCBs, Total	ND		ug/kg	36.2	3.21	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-05
Client ID: SB007 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:55
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 00:11
Analyst: WR
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 17:37
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.0	3.29	1	A
Aroclor 1221	ND		ug/kg	37.0	3.71	1	A
Aroclor 1232	ND		ug/kg	37.0	7.85	1	A
Aroclor 1242	ND		ug/kg	37.0	4.99	1	A
Aroclor 1248	ND		ug/kg	37.0	5.56	1	A
Aroclor 1254	ND		ug/kg	37.0	4.05	1	A
Aroclor 1260	ND		ug/kg	37.0	6.85	1	A
Aroclor 1262	ND		ug/kg	37.0	4.70	1	A
Aroclor 1268	ND		ug/kg	37.0	3.84	1	A
PCBs, Total	ND		ug/kg	37.0	3.29	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-06
Client ID: SB007 7-9
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 14:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 00:04
Analyst: WR
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 17:37
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.8	3.35	1	A
Aroclor 1221	ND		ug/kg	37.8	3.78	1	A
Aroclor 1232	ND		ug/kg	37.8	8.01	1	A
Aroclor 1242	ND		ug/kg	37.8	5.09	1	A
Aroclor 1248	ND		ug/kg	37.8	5.66	1	A
Aroclor 1254	ND		ug/kg	37.8	4.13	1	A
Aroclor 1260	ND		ug/kg	37.8	6.98	1	A
Aroclor 1262	ND		ug/kg	37.8	4.80	1	A
Aroclor 1268	ND		ug/kg	37.8	3.91	1	A
PCBs, Total	ND		ug/kg	37.8	3.35	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-07
Client ID: SB007 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 14:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 00:18
Analyst: WR
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 17:37
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.0	3.28	1	A
Aroclor 1221	ND		ug/kg	37.0	3.70	1	A
Aroclor 1232	ND		ug/kg	37.0	7.84	1	A
Aroclor 1242	ND		ug/kg	37.0	4.98	1	A
Aroclor 1248	ND		ug/kg	37.0	5.55	1	A
Aroclor 1254	ND		ug/kg	37.0	4.04	1	A
Aroclor 1260	ND		ug/kg	37.0	6.83	1	A
Aroclor 1262	ND		ug/kg	37.0	4.70	1	A
Aroclor 1268	ND		ug/kg	37.0	3.83	1	A
PCBs, Total	ND		ug/kg	37.0	3.28	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-08
Client ID: DUP001
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 00:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 00:54
Analyst: WR
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 17:37
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.5	3.42	1	A
Aroclor 1221	ND		ug/kg	38.5	3.86	1	A
Aroclor 1232	ND		ug/kg	38.5	8.17	1	A
Aroclor 1242	ND		ug/kg	38.5	5.19	1	A
Aroclor 1248	ND		ug/kg	38.5	5.78	1	A
Aroclor 1254	ND		ug/kg	38.5	4.21	1	A
Aroclor 1260	ND		ug/kg	38.5	7.12	1	A
Aroclor 1262	ND		ug/kg	38.5	4.89	1	A
Aroclor 1268	ND		ug/kg	38.5	3.99	1	A
PCBs, Total	ND		ug/kg	38.5	3.42	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-09
Client ID: SB008 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/14/22 23:22
Analyst: WR
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 17:39
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.8	3.18	1	A
Aroclor 1221	ND		ug/kg	35.8	3.59	1	A
Aroclor 1232	ND		ug/kg	35.8	7.60	1	A
Aroclor 1242	ND		ug/kg	35.8	4.83	1	A
Aroclor 1248	ND		ug/kg	35.8	5.37	1	A
Aroclor 1254	42.5		ug/kg	35.8	3.92	1	B
Aroclor 1260	ND		ug/kg	35.8	6.62	1	A
Aroclor 1262	ND		ug/kg	35.8	4.55	1	A
Aroclor 1268	ND		ug/kg	35.8	3.71	1	A
PCBs, Total	42.5		ug/kg	35.8	3.18	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	64		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-10
Client ID: SB008 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 01:01
Analyst: WR
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 17:39
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.0	3.28	1	A
Aroclor 1221	ND		ug/kg	37.0	3.70	1	A
Aroclor 1232	ND		ug/kg	37.0	7.84	1	A
Aroclor 1242	ND		ug/kg	37.0	4.98	1	A
Aroclor 1248	ND		ug/kg	37.0	5.54	1	A
Aroclor 1254	ND		ug/kg	37.0	4.04	1	A
Aroclor 1260	ND		ug/kg	37.0	6.83	1	A
Aroclor 1262	ND		ug/kg	37.0	4.70	1	A
Aroclor 1268	ND		ug/kg	37.0	3.83	1	A
PCBs, Total	ND		ug/kg	37.0	3.28	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-11
Client ID: DUP002
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 00:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 01:08
Analyst: WR
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 17:39
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	3.22	1	A
Aroclor 1221	ND		ug/kg	36.2	3.63	1	A
Aroclor 1232	ND		ug/kg	36.2	7.68	1	A
Aroclor 1242	ND		ug/kg	36.2	4.88	1	A
Aroclor 1248	ND		ug/kg	36.2	5.43	1	A
Aroclor 1254	ND		ug/kg	36.2	3.96	1	A
Aroclor 1260	ND		ug/kg	36.2	6.69	1	A
Aroclor 1262	ND		ug/kg	36.2	4.60	1	A
Aroclor 1268	ND		ug/kg	36.2	3.75	1	A
PCBs, Total	ND		ug/kg	36.2	3.22	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-12
Client ID: SB008 2-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 01:15
Analyst: WR
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 17:39
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.8	3.18	1	A
Aroclor 1221	ND		ug/kg	35.8	3.59	1	A
Aroclor 1232	ND		ug/kg	35.8	7.59	1	A
Aroclor 1242	ND		ug/kg	35.8	4.83	1	A
Aroclor 1248	ND		ug/kg	35.8	5.37	1	A
Aroclor 1254	ND		ug/kg	35.8	3.92	1	A
Aroclor 1260	ND		ug/kg	35.8	6.62	1	A
Aroclor 1262	ND		ug/kg	35.8	4.55	1	A
Aroclor 1268	ND		ug/kg	35.8	3.71	1	A
PCBs, Total	ND		ug/kg	35.8	3.18	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-13
Client ID: SB005 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:20
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 01:22
Analyst: WR
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 17:39
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.9	3.27	1	A
Aroclor 1221	ND		ug/kg	36.9	3.69	1	A
Aroclor 1232	ND		ug/kg	36.9	7.82	1	A
Aroclor 1242	ND		ug/kg	36.9	4.97	1	A
Aroclor 1248	ND		ug/kg	36.9	5.53	1	A
Aroclor 1254	ND		ug/kg	36.9	4.03	1	A
Aroclor 1260	ND		ug/kg	36.9	6.81	1	A
Aroclor 1262	ND		ug/kg	36.9	4.68	1	A
Aroclor 1268	ND		ug/kg	36.9	3.82	1	A
PCBs, Total	ND		ug/kg	36.9	3.27	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-14
Client ID: SB001 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 01:29
Analyst: WR
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 17:40
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.2	3.04	1	A
Aroclor 1221	ND		ug/kg	34.2	3.43	1	A
Aroclor 1232	ND		ug/kg	34.2	7.26	1	A
Aroclor 1242	ND		ug/kg	34.2	4.61	1	A
Aroclor 1248	ND		ug/kg	34.2	5.13	1	A
Aroclor 1254	18.8	J	ug/kg	34.2	3.74	1	B
Aroclor 1260	8.12	J	ug/kg	34.2	6.32	1	B
Aroclor 1262	ND		ug/kg	34.2	4.35	1	A
Aroclor 1268	ND		ug/kg	34.2	3.54	1	A
PCBs, Total	26.9	J	ug/kg	34.2	3.04	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-15
Client ID: SB001 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 01:36
Analyst: WR
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 17:40
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.6	3.16	1	A
Aroclor 1221	ND		ug/kg	35.6	3.56	1	A
Aroclor 1232	ND		ug/kg	35.6	7.54	1	A
Aroclor 1242	ND		ug/kg	35.6	4.80	1	A
Aroclor 1248	ND		ug/kg	35.6	5.34	1	A
Aroclor 1254	ND		ug/kg	35.6	3.89	1	A
Aroclor 1260	8.32	J	ug/kg	35.6	6.58	1	B
Aroclor 1262	ND		ug/kg	35.6	4.52	1	A
Aroclor 1268	3.82	J	ug/kg	35.6	3.69	1	A
PCBs, Total	12.1	J	ug/kg	35.6	3.16	1	B

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	66		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-16 D
Client ID: SB005 8-10
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 03:02
Analyst: WR
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 17:40
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	184	16.4	5	A
Aroclor 1221	ND		ug/kg	184	18.5	5	A
Aroclor 1232	ND		ug/kg	184	39.1	5	A
Aroclor 1242	ND		ug/kg	184	24.9	5	A
Aroclor 1248	846		ug/kg	184	27.7	5	B
Aroclor 1254	943		ug/kg	184	20.2	5	B
Aroclor 1260	ND		ug/kg	184	34.1	5	A
Aroclor 1262	ND		ug/kg	184	23.4	5	A
Aroclor 1268	ND		ug/kg	184	19.1	5	A
PCBs, Total	1790		ug/kg	184	16.4	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-17
Client ID: SB002 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:45
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 01:50
Analyst: WR
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 17:40
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.4	3.32	1	A
Aroclor 1221	ND		ug/kg	37.4	3.75	1	A
Aroclor 1232	ND		ug/kg	37.4	7.93	1	A
Aroclor 1242	ND		ug/kg	37.4	5.04	1	A
Aroclor 1248	ND		ug/kg	37.4	5.61	1	A
Aroclor 1254	ND		ug/kg	37.4	4.09	1	A
Aroclor 1260	ND		ug/kg	37.4	6.92	1	A
Aroclor 1262	ND		ug/kg	37.4	4.75	1	A
Aroclor 1268	ND		ug/kg	37.4	3.88	1	A
PCBs, Total	ND		ug/kg	37.4	3.32	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-18
Client ID: SB004 2-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 01:57
Analyst: WR
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 17:40
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.4	3.32	1	A
Aroclor 1221	ND		ug/kg	37.4	3.75	1	A
Aroclor 1232	ND		ug/kg	37.4	7.93	1	A
Aroclor 1242	ND		ug/kg	37.4	5.04	1	A
Aroclor 1248	ND		ug/kg	37.4	5.61	1	A
Aroclor 1254	215		ug/kg	37.4	4.09	1	B
Aroclor 1260	ND		ug/kg	37.4	6.91	1	A
Aroclor 1262	ND		ug/kg	37.4	4.75	1	A
Aroclor 1268	ND		ug/kg	37.4	3.87	1	A
PCBs, Total	215		ug/kg	37.4	3.32	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-19
Client ID: SB002 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 02:04
Analyst: WR
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 17:40
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.3	3.13	1	A
Aroclor 1221	ND		ug/kg	35.3	3.53	1	A
Aroclor 1232	ND		ug/kg	35.3	7.48	1	A
Aroclor 1242	ND		ug/kg	35.3	4.75	1	A
Aroclor 1248	ND		ug/kg	35.3	5.29	1	A
Aroclor 1254	ND		ug/kg	35.3	3.86	1	A
Aroclor 1260	ND		ug/kg	35.3	6.52	1	A
Aroclor 1262	ND		ug/kg	35.3	4.48	1	A
Aroclor 1268	ND		ug/kg	35.3	3.65	1	A
PCBs, Total	ND		ug/kg	35.3	3.13	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-20
Client ID: SB003 15-17
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 22:11
Analyst: JM
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 03/15/22 01:41
Cleanup Method: EPA 3665A
Cleanup Date: 03/15/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/15/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.0	2.93	1	A
Aroclor 1221	ND		ug/kg	33.0	3.31	1	A
Aroclor 1232	ND		ug/kg	33.0	7.00	1	A
Aroclor 1242	ND		ug/kg	33.0	4.45	1	A
Aroclor 1248	ND		ug/kg	33.0	4.96	1	A
Aroclor 1254	ND		ug/kg	33.0	3.61	1	A
Aroclor 1260	ND		ug/kg	33.0	6.11	1	A
Aroclor 1262	ND		ug/kg	33.0	4.20	1	A
Aroclor 1268	ND		ug/kg	33.0	3.42	1	A
PCBs, Total	ND		ug/kg	33.0	2.93	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-21
Client ID: SB011 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 22:20
Analyst: JM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/15/22 01:41
Cleanup Method: EPA 3665A
Cleanup Date: 03/15/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/15/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.1	3.30	1	A
Aroclor 1221	ND		ug/kg	37.1	3.72	1	A
Aroclor 1232	ND		ug/kg	37.1	7.87	1	A
Aroclor 1242	ND		ug/kg	37.1	5.00	1	A
Aroclor 1248	ND		ug/kg	37.1	5.57	1	A
Aroclor 1254	ND		ug/kg	37.1	4.06	1	A
Aroclor 1260	ND		ug/kg	37.1	6.86	1	B
Aroclor 1262	ND		ug/kg	37.1	4.71	1	A
Aroclor 1268	ND		ug/kg	37.1	3.85	1	A
PCBs, Total	ND		ug/kg	37.1	3.30	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-22
Client ID: SB003 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 11:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 22:29
Analyst: JM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 03/15/22 01:41
Cleanup Method: EPA 3665A
Cleanup Date: 03/15/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/15/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.3	3.31	1	A
Aroclor 1221	ND		ug/kg	37.3	3.74	1	A
Aroclor 1232	ND		ug/kg	37.3	7.91	1	A
Aroclor 1242	ND		ug/kg	37.3	5.03	1	A
Aroclor 1248	ND		ug/kg	37.3	5.60	1	A
Aroclor 1254	ND		ug/kg	37.3	4.08	1	A
Aroclor 1260	37.0	J	ug/kg	37.3	6.89	1	B
Aroclor 1262	ND		ug/kg	37.3	4.74	1	A
Aroclor 1268	ND		ug/kg	37.3	3.86	1	A
PCBs, Total	37.0	J	ug/kg	37.3	3.31	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	44		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	46		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-23
Client ID: SB011 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:55
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 22:39
Analyst: JM
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/15/22 01:41
Cleanup Method: EPA 3665A
Cleanup Date: 03/15/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/15/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.0	3.19	1	A
Aroclor 1221	ND		ug/kg	36.0	3.60	1	A
Aroclor 1232	ND		ug/kg	36.0	7.63	1	A
Aroclor 1242	ND		ug/kg	36.0	4.85	1	A
Aroclor 1248	ND		ug/kg	36.0	5.40	1	A
Aroclor 1254	ND		ug/kg	36.0	3.94	1	A
Aroclor 1260	ND		ug/kg	36.0	6.65	1	A
Aroclor 1262	ND		ug/kg	36.0	4.57	1	A
Aroclor 1268	ND		ug/kg	36.0	3.73	1	A
PCBs, Total	ND		ug/kg	36.0	3.19	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-24
Client ID: SB011 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:45
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 22:48
Analyst: JM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 03/15/22 01:41
Cleanup Method: EPA 3665A
Cleanup Date: 03/15/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/15/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.0	3.46	1	A
Aroclor 1221	ND		ug/kg	39.0	3.90	1	A
Aroclor 1232	ND		ug/kg	39.0	8.26	1	A
Aroclor 1242	ND		ug/kg	39.0	5.25	1	A
Aroclor 1248	ND		ug/kg	39.0	5.84	1	A
Aroclor 1254	ND		ug/kg	39.0	4.26	1	A
Aroclor 1260	ND		ug/kg	39.0	7.20	1	A
Aroclor 1262	ND		ug/kg	39.0	4.95	1	A
Aroclor 1268	ND		ug/kg	39.0	4.04	1	A
PCBs, Total	ND		ug/kg	39.0	3.46	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-25
Client ID: SB010 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 22:57
Analyst: JM
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 03/15/22 01:41
Cleanup Method: EPA 3665A
Cleanup Date: 03/15/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/15/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.6	3.16	1	A
Aroclor 1221	ND		ug/kg	35.6	3.57	1	A
Aroclor 1232	ND		ug/kg	35.6	7.56	1	A
Aroclor 1242	ND		ug/kg	35.6	4.80	1	A
Aroclor 1248	ND		ug/kg	35.6	5.34	1	A
Aroclor 1254	ND		ug/kg	35.6	3.90	1	A
Aroclor 1260	ND		ug/kg	35.6	6.58	1	A
Aroclor 1262	ND		ug/kg	35.6	4.52	1	A
Aroclor 1268	ND		ug/kg	35.6	3.69	1	A
PCBs, Total	ND		ug/kg	35.6	3.16	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-26
Client ID: SB010 8-10
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 23:07
Analyst: JM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/15/22 01:41
Cleanup Method: EPA 3665A
Cleanup Date: 03/15/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/15/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.4	3.23	1	A
Aroclor 1221	ND		ug/kg	36.4	3.64	1	A
Aroclor 1232	ND		ug/kg	36.4	7.71	1	A
Aroclor 1242	ND		ug/kg	36.4	4.90	1	A
Aroclor 1248	ND		ug/kg	36.4	5.45	1	A
Aroclor 1254	ND		ug/kg	36.4	3.98	1	A
Aroclor 1260	ND		ug/kg	36.4	6.72	1	A
Aroclor 1262	ND		ug/kg	36.4	4.62	1	A
Aroclor 1268	ND		ug/kg	36.4	3.76	1	A
PCBs, Total	ND		ug/kg	36.4	3.23	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	45		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	48		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-27
Client ID: SB003 9-11
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 23:16
Analyst: JM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 03/15/22 01:41
Cleanup Method: EPA 3665A
Cleanup Date: 03/15/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/15/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.0	3.38	1	A
Aroclor 1221	ND		ug/kg	38.0	3.81	1	A
Aroclor 1232	ND		ug/kg	38.0	8.07	1	A
Aroclor 1242	ND		ug/kg	38.0	5.13	1	A
Aroclor 1248	ND		ug/kg	38.0	5.71	1	A
Aroclor 1254	ND		ug/kg	38.0	4.16	1	A
Aroclor 1260	ND		ug/kg	38.0	7.03	1	B
Aroclor 1262	ND		ug/kg	38.0	4.83	1	A
Aroclor 1268	ND		ug/kg	38.0	3.94	1	A
PCBs, Total	ND		ug/kg	38.0	3.38	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-28
Client ID: SB003 20-22
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/16/22 11:25
Analyst: AD
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/15/22 19:57
Cleanup Method: EPA 3665A
Cleanup Date: 03/16/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/16/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.3	3.22	1	A
Aroclor 1221	ND		ug/kg	36.3	3.64	1	A
Aroclor 1232	ND		ug/kg	36.3	7.70	1	A
Aroclor 1242	ND		ug/kg	36.3	4.89	1	A
Aroclor 1248	ND		ug/kg	36.3	5.44	1	A
Aroclor 1254	ND		ug/kg	36.3	3.97	1	A
Aroclor 1260	ND		ug/kg	36.3	6.71	1	A
Aroclor 1262	ND		ug/kg	36.3	4.61	1	A
Aroclor 1268	ND		ug/kg	36.3	3.76	1	A
PCBs, Total	ND		ug/kg	36.3	3.22	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-29
Client ID: SB005 12-14
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/16/22 11:33
Analyst: AD
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/15/22 19:57
Cleanup Method: EPA 3665A
Cleanup Date: 03/16/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/16/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.1	3.30	1	A
Aroclor 1221	ND		ug/kg	37.1	3.72	1	A
Aroclor 1232	ND		ug/kg	37.1	7.87	1	A
Aroclor 1242	ND		ug/kg	37.1	5.00	1	A
Aroclor 1248	ND		ug/kg	37.1	5.57	1	A
Aroclor 1254	10.2	J	ug/kg	37.1	4.06	1	B
Aroclor 1260	ND		ug/kg	37.1	6.86	1	A
Aroclor 1262	ND		ug/kg	37.1	4.71	1	A
Aroclor 1268	ND		ug/kg	37.1	3.84	1	A
PCBs, Total	10.2	J	ug/kg	37.1	3.30	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-30
Client ID: SB002 2-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/16/22 11:41
Analyst: AD
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 03/15/22 19:57
Cleanup Method: EPA 3665A
Cleanup Date: 03/16/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/16/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.4	3.32	1	A
Aroclor 1221	ND		ug/kg	37.4	3.75	1	A
Aroclor 1232	ND		ug/kg	37.4	7.93	1	A
Aroclor 1242	ND		ug/kg	37.4	5.04	1	A
Aroclor 1248	ND		ug/kg	37.4	5.61	1	A
Aroclor 1254	ND		ug/kg	37.4	4.09	1	B
Aroclor 1260	ND		ug/kg	37.4	6.92	1	B
Aroclor 1262	ND		ug/kg	37.4	4.75	1	A
Aroclor 1268	4.19	J	ug/kg	37.4	3.88	1	B
PCBs, Total	4.19	J	ug/kg	37.4	3.32	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-31
Client ID: SB009 9-11
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/16/22 11:49
Analyst: AD
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 03/15/22 19:57
Cleanup Method: EPA 3665A
Cleanup Date: 03/16/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/16/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.1	3.39	1	A
Aroclor 1221	ND		ug/kg	38.1	3.82	1	A
Aroclor 1232	ND		ug/kg	38.1	8.09	1	A
Aroclor 1242	ND		ug/kg	38.1	5.14	1	A
Aroclor 1248	ND		ug/kg	38.1	5.72	1	A
Aroclor 1254	ND		ug/kg	38.1	4.17	1	A
Aroclor 1260	ND		ug/kg	38.1	7.05	1	A
Aroclor 1262	ND		ug/kg	38.1	4.84	1	A
Aroclor 1268	ND		ug/kg	38.1	3.95	1	A
PCBs, Total	ND		ug/kg	38.1	3.39	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-32
Client ID: SB009 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/16/22 11:57
Analyst: AD
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 03/15/22 19:57
Cleanup Method: EPA 3665A
Cleanup Date: 03/16/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/16/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.4	3.15	1	A
Aroclor 1221	ND		ug/kg	35.4	3.55	1	A
Aroclor 1232	ND		ug/kg	35.4	7.51	1	A
Aroclor 1242	ND		ug/kg	35.4	4.78	1	A
Aroclor 1248	ND		ug/kg	35.4	5.32	1	A
Aroclor 1254	ND		ug/kg	35.4	3.88	1	A
Aroclor 1260	ND		ug/kg	35.4	6.55	1	A
Aroclor 1262	ND		ug/kg	35.4	4.50	1	A
Aroclor 1268	ND		ug/kg	35.4	3.67	1	A
PCBs, Total	ND		ug/kg	35.4	3.15	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-37
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 18:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 03/19/22 11:36
Analyst: JWL

Extraction Method: EPA 3510C
Extraction Date: 03/18/22 16:36
Cleanup Method: EPA 3665A
Cleanup Date: 03/18/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/19/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	100		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	106		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/15/22 00:25
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 03/12/22 17:37
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-19 Batch: WG1614972-1						
Aroclor 1016	ND		ug/kg	32.2	2.86	A
Aroclor 1221	ND		ug/kg	32.2	3.22	A
Aroclor 1232	ND		ug/kg	32.2	6.82	A
Aroclor 1242	ND		ug/kg	32.2	4.34	A
Aroclor 1248	ND		ug/kg	32.2	4.83	A
Aroclor 1254	ND		ug/kg	32.2	3.52	A
Aroclor 1260	ND		ug/kg	32.2	5.94	A
Aroclor 1262	ND		ug/kg	32.2	4.09	A
Aroclor 1268	ND		ug/kg	32.2	3.33	A
PCBs, Total	ND		ug/kg	32.2	2.86	A

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

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/15/22 14:19
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 03/15/22 01:41
Cleanup Method: EPA 3665A
Cleanup Date: 03/15/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/15/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 20-27 Batch: WG1615608-1						
Aroclor 1016	ND		ug/kg	31.9	2.83	A
Aroclor 1221	ND		ug/kg	31.9	3.19	A
Aroclor 1232	ND		ug/kg	31.9	6.76	A
Aroclor 1242	ND		ug/kg	31.9	4.30	A
Aroclor 1248	ND		ug/kg	31.9	4.78	A
Aroclor 1254	ND		ug/kg	31.9	3.49	A
Aroclor 1260	ND		ug/kg	31.9	5.89	A
Aroclor 1262	ND		ug/kg	31.9	4.05	A
Aroclor 1268	ND		ug/kg	31.9	3.30	A
PCBs, Total	ND		ug/kg	31.9	2.83	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/16/22 09:23
Analyst: AD

Extraction Method: EPA 3546
Extraction Date: 03/15/22 03:10
Cleanup Method: EPA 3665A
Cleanup Date: 03/15/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/16/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 28-32 Batch: WG1615625-1						
Aroclor 1016	ND		ug/kg	33.1	2.94	A
Aroclor 1221	ND		ug/kg	33.1	3.31	A
Aroclor 1232	ND		ug/kg	33.1	7.01	A
Aroclor 1242	ND		ug/kg	33.1	4.46	A
Aroclor 1248	ND		ug/kg	33.1	4.96	A
Aroclor 1254	ND		ug/kg	33.1	3.62	A
Aroclor 1260	ND		ug/kg	33.1	6.11	A
Aroclor 1262	ND		ug/kg	33.1	4.20	A
Aroclor 1268	ND		ug/kg	33.1	3.42	A
PCBs, Total	ND		ug/kg	33.1	2.94	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/18/22 12:49
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 16:55
Cleanup Method: EPA 3665A
Cleanup Date: 03/18/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/18/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 37 Batch: WG1616946-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	102		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-19 Batch: WG1614972-2 WG1614972-3									
Aroclor 1016	72		50		40-140	36		50	A
Aroclor 1260	66		45		40-140	38		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		51		30-150	A
Decachlorobiphenyl	66		44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		53		30-150	B
Decachlorobiphenyl	74		50		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 20-27 Batch: WG1615608-2 WG1615608-3									
Aroclor 1016	70		76		40-140	8		50	A
Aroclor 1260	75		80		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		68		30-150	A
Decachlorobiphenyl	73		79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		74		30-150	B
Decachlorobiphenyl	79		81		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 28-32 Batch: WG1615625-2 WG1615625-3									
Aroclor 1016	65		68		40-140	5		50	A
Aroclor 1260	64		72		40-140	12		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		63		30-150	A
Decachlorobiphenyl	65		72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		70		30-150	B
Decachlorobiphenyl	66		73		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 37 Batch: WG1616946-2 WG1616946-3									
Aroclor 1016	81		77		40-140	5		50	A
Aroclor 1260	81		77		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		75		30-150	A
Decachlorobiphenyl	88		88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		76		30-150	B
Decachlorobiphenyl	93		97		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-19 QC Batch ID: WG1614972-4 WG1614972-5 QC Sample: L2210848-01 Client ID: SB010 0-2													
Aroclor 1016	ND	213	151	71		165	73		40-140	9		50	A
Aroclor 1260	ND	213	137	64		148	66		40-140	8		50	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		74		30-150	A
Decachlorobiphenyl	59		59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		76		30-150	B
Decachlorobiphenyl	71		72		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-19 QC Batch ID: WG1614972-6 WG1614972-7 QC Sample: L2210848-09 Client ID: SB008 0-2													
Aroclor 1016	ND	218	135	62		147	65		40-140	9		50	A
Aroclor 1260	ND	218	122	56		138	61		40-140	12		50	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		64		30-150	A
Decachlorobiphenyl	49		50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		65		30-150	B
Decachlorobiphenyl	60		58		30-150	B

PESTICIDES

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-01
Client ID: SB010 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:20
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 13:49
Analyst: JAW
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:16
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	0.330	1	A
Lindane	ND		ug/kg	0.702	0.314	1	A
Alpha-BHC	ND		ug/kg	0.702	0.199	1	A
Beta-BHC	ND		ug/kg	1.68	0.638	1	A
Heptachlor	ND		ug/kg	0.842	0.378	1	A
Aldrin	ND		ug/kg	1.68	0.593	1	A
Heptachlor epoxide	ND		ug/kg	3.16	0.947	1	A
Endrin	ND		ug/kg	0.702	0.288	1	A
Endrin aldehyde	ND		ug/kg	2.10	0.737	1	A
Endrin ketone	ND		ug/kg	1.68	0.434	1	A
Dieldrin	1.98		ug/kg	1.05	0.526	1	B
4,4'-DDE	1.29	J	ug/kg	1.68	0.389	1	A
4,4'-DDD	ND		ug/kg	1.68	0.601	1	A
4,4'-DDT	ND		ug/kg	3.16	1.35	1	A
Endosulfan I	ND		ug/kg	1.68	0.398	1	A
Endosulfan II	ND		ug/kg	1.68	0.563	1	A
Endosulfan sulfate	ND		ug/kg	0.702	0.334	1	A
Methoxychlor	ND		ug/kg	3.16	0.982	1	A
Toxaphene	ND		ug/kg	31.6	8.84	1	A
cis-Chlordane	4.54		ug/kg	2.10	0.587	1	A
trans-Chlordane	4.14		ug/kg	2.10	0.556	1	A
Chlordane	ND		ug/kg	14.0	5.58	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-01 Date Collected: 03/01/22 12:20

Client ID: SB010 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	137		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-01
Client ID: SB010 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:20
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 12:30
Analyst: AR
Percent Solids: 92%
Methylation Date: 03/13/22 19:30

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 07:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	179	11.2	1	A
2,4,5-T	ND		ug/kg	179	5.54	1	A
2,4,5-TP (Silvex)	ND		ug/kg	179	4.75	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	82		30-150	A
DCAA	87		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-02
Client ID: SB008 12-14
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/15/22 12:01
Analyst: JAW
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:16
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.76	0.345	1	A
Lindane	ND		ug/kg	0.735	0.328	1	A
Alpha-BHC	ND		ug/kg	0.735	0.209	1	A
Beta-BHC	ND		ug/kg	1.76	0.668	1	A
Heptachlor	ND		ug/kg	0.882	0.395	1	A
Aldrin	ND		ug/kg	1.76	0.621	1	A
Heptachlor epoxide	ND		ug/kg	3.31	0.992	1	A
Endrin	ND		ug/kg	0.735	0.301	1	A
Endrin aldehyde	ND		ug/kg	2.20	0.771	1	A
Endrin ketone	ND		ug/kg	1.76	0.454	1	A
Dieldrin	ND		ug/kg	1.10	0.551	1	A
4,4'-DDE	ND		ug/kg	1.76	0.408	1	A
4,4'-DDD	ND		ug/kg	1.76	0.629	1	A
4,4'-DDT	ND		ug/kg	3.31	1.42	1	A
Endosulfan I	ND		ug/kg	1.76	0.416	1	A
Endosulfan II	ND		ug/kg	1.76	0.589	1	A
Endosulfan sulfate	ND		ug/kg	0.735	0.350	1	A
Methoxychlor	ND		ug/kg	3.31	1.03	1	A
Toxaphene	ND		ug/kg	33.1	9.26	1	A
cis-Chlordane	ND		ug/kg	2.20	0.614	1	A
trans-Chlordane	ND		ug/kg	2.20	0.582	1	A
Chlordane	ND		ug/kg	14.7	5.84	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-02 Date Collected: 03/01/22 15:10

Client ID: SB008 12-14 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-02
Client ID: SB008 12-14
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 14:21
Analyst: AR
Percent Solids: 88%
Methylation Date: 03/13/22 22:40

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 07:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	185	11.7	1	A
2,4,5-T	ND		ug/kg	185	5.75	1	A
2,4,5-TP (Silvex)	ND		ug/kg	185	4.93	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	72		30-150	A
DCAA	73		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-03
Client ID: SB006 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 14:54
Analyst: JAW
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:16
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

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	0.621	1	A
Heptachlor	ND		ug/kg	0.819	0.367	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	0.584	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	ND		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	8.60	1	A
cis-Chlordane	ND		ug/kg	2.05	0.571	1	A
trans-Chlordane	ND		ug/kg	2.05	0.541	1	A
Chlordane	ND		ug/kg	13.6	5.43	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-03 Date Collected: 03/01/22 13:25

Client ID: SB006 4-6 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-03
Client ID: SB006 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 14:58
Analyst: AR
Percent Solids: 92%
Methylation Date: 03/13/22 22:40

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 07:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	180	11.3	1	B
2,4,5-T	ND		ug/kg	180	5.57	1	B
2,4,5-TP (Silvex)	ND		ug/kg	180	4.78	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	78		30-150	A
DCAA	83		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-04
Client ID: SB006 3-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 16:00
Analyst: JAW
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:16
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

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	ND		ug/kg	1.07	0.535	1	A
4,4'-DDE	ND		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	ND		ug/kg	1.71	0.572	1	A
Endosulfan sulfate	ND		ug/kg	0.713	0.339	1	A
Methoxychlor	ND		ug/kg	3.21	0.998	1	A
Toxaphene	ND		ug/kg	32.1	8.99	1	A
cis-Chlordane	ND		ug/kg	2.14	0.596	1	A
trans-Chlordane	ND		ug/kg	2.14	0.565	1	A
Chlordane	ND		ug/kg	14.3	5.67	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-04 Date Collected: 03/01/22 13:15

Client ID: SB006 3-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-04
Client ID: SB006 3-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 15:17
Analyst: AR
Percent Solids: 91%
Methylation Date: 03/13/22 22:40

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 07:38

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	B
2,4,5-T	ND		ug/kg	180	5.58	1	B
2,4,5-TP (Silvex)	ND		ug/kg	180	4.79	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	85		30-150	A
DCAA	85		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-05
Client ID: SB007 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:55
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 16:11
Analyst: JAW
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:16
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.77	0.346	1	A
Lindane	ND		ug/kg	0.736	0.329	1	A
Alpha-BHC	ND		ug/kg	0.736	0.209	1	A
Beta-BHC	ND		ug/kg	1.77	0.670	1	A
Heptachlor	ND		ug/kg	0.883	0.396	1	A
Aldrin	ND		ug/kg	1.77	0.622	1	A
Heptachlor epoxide	ND		ug/kg	3.31	0.994	1	A
Endrin	ND		ug/kg	0.736	0.302	1	A
Endrin aldehyde	ND		ug/kg	2.21	0.773	1	A
Endrin ketone	ND		ug/kg	1.77	0.455	1	A
Dieldrin	ND		ug/kg	1.10	0.552	1	A
4,4'-DDE	ND		ug/kg	1.77	0.409	1	A
4,4'-DDD	ND		ug/kg	1.77	0.630	1	A
4,4'-DDT	ND		ug/kg	3.31	1.42	1	A
Endosulfan I	ND		ug/kg	1.77	0.417	1	A
Endosulfan II	ND		ug/kg	1.77	0.590	1	A
Endosulfan sulfate	ND		ug/kg	0.736	0.350	1	A
Methoxychlor	ND		ug/kg	3.31	1.03	1	A
Toxaphene	ND		ug/kg	33.1	9.28	1	A
cis-Chlordane	ND		ug/kg	2.21	0.615	1	A
trans-Chlordane	ND		ug/kg	2.21	0.583	1	A
Chlordane	ND		ug/kg	14.7	5.85	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-05 Date Collected: 03/01/22 13:55

Client ID: SB007 3-5 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-05
Client ID: SB007 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:55
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 15:35
Analyst: AR
Percent Solids: 88%
Methylation Date: 03/13/22 19:30

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 07:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	188	11.8	1	B
2,4,5-T	ND		ug/kg	188	5.82	1	B
2,4,5-TP (Silvex)	ND		ug/kg	188	4.99	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	90		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-06
Client ID: SB007 7-9
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 14:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 16:22
Analyst: JAW
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:16
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.88	0.369	1	A
Lindane	ND		ug/kg	0.785	0.351	1	A
Alpha-BHC	ND		ug/kg	0.785	0.223	1	A
Beta-BHC	ND		ug/kg	1.88	0.714	1	A
Heptachlor	ND		ug/kg	0.942	0.422	1	A
Aldrin	ND		ug/kg	1.88	0.663	1	A
Heptachlor epoxide	ND		ug/kg	3.53	1.06	1	A
Endrin	ND		ug/kg	0.785	0.322	1	A
Endrin aldehyde	ND		ug/kg	2.35	0.824	1	A
Endrin ketone	ND		ug/kg	1.88	0.485	1	A
Dieldrin	ND		ug/kg	1.18	0.589	1	A
4,4'-DDE	ND		ug/kg	1.88	0.436	1	A
4,4'-DDD	ND		ug/kg	1.88	0.672	1	A
4,4'-DDT	ND		ug/kg	3.53	1.52	1	A
Endosulfan I	ND		ug/kg	1.88	0.445	1	A
Endosulfan II	ND		ug/kg	1.88	0.630	1	A
Endosulfan sulfate	ND		ug/kg	0.785	0.374	1	A
Methoxychlor	ND		ug/kg	3.53	1.10	1	A
Toxaphene	ND		ug/kg	35.3	9.89	1	A
cis-Chlordane	ND		ug/kg	2.35	0.656	1	A
trans-Chlordane	ND		ug/kg	2.35	0.622	1	A
Chlordane	ND		ug/kg	15.7	6.24	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-06 Date Collected: 03/01/22 14:00

Client ID: SB007 7-9 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-06
Client ID: SB007 7-9
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 14:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 15:54
Analyst: AR
Percent Solids: 85%
Methylation Date: 03/13/22 19:30

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 07:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	196	12.3	1	B
2,4,5-T	ND		ug/kg	196	6.08	1	B
2,4,5-TP (Silvex)	ND		ug/kg	196	5.21	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	97		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-07
Client ID: SB007 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 14:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 16:33
Analyst: JAW
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:16
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.336	1	A
Lindane	ND		ug/kg	0.715	0.320	1	A
Alpha-BHC	ND		ug/kg	0.715	0.203	1	A
Beta-BHC	ND		ug/kg	1.72	0.651	1	A
Heptachlor	ND		ug/kg	0.858	0.385	1	A
Aldrin	ND		ug/kg	1.72	0.604	1	A
Heptachlor epoxide	ND		ug/kg	3.22	0.966	1	A
Endrin	ND		ug/kg	0.715	0.293	1	A
Endrin aldehyde	ND		ug/kg	2.15	0.751	1	A
Endrin ketone	ND		ug/kg	1.72	0.442	1	A
Dieldrin	ND		ug/kg	1.07	0.536	1	A
4,4'-DDE	ND		ug/kg	1.72	0.397	1	A
4,4'-DDD	ND		ug/kg	1.72	0.612	1	A
4,4'-DDT	ND		ug/kg	3.22	1.38	1	A
Endosulfan I	ND		ug/kg	1.72	0.406	1	A
Endosulfan II	ND		ug/kg	1.72	0.574	1	A
Endosulfan sulfate	ND		ug/kg	0.715	0.340	1	A
Methoxychlor	ND		ug/kg	3.22	1.00	1	A
Toxaphene	ND		ug/kg	32.2	9.01	1	A
cis-Chlordane	ND		ug/kg	2.15	0.598	1	A
trans-Chlordane	ND		ug/kg	2.15	0.566	1	A
Chlordane	ND		ug/kg	14.3	5.69	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-07 Date Collected: 03/01/22 14:05

Client ID: SB007 18-20 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-07
Client ID: SB007 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 14:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 16:13
Analyst: AR
Percent Solids: 90%
Methylation Date: 03/13/22 22:40

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 07:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	182	11.5	1	B
2,4,5-T	ND		ug/kg	182	5.65	1	B
2,4,5-TP (Silvex)	ND		ug/kg	182	4.85	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	85		30-150	A
DCAA	91		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-08
Client ID: DUP001
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 00:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 16:43
Analyst: JAW
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:16
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.82	0.356	1	A
Lindane	ND		ug/kg	0.758	0.339	1	A
Alpha-BHC	ND		ug/kg	0.758	0.215	1	A
Beta-BHC	ND		ug/kg	1.82	0.689	1	A
Heptachlor	ND		ug/kg	0.909	0.408	1	A
Aldrin	ND		ug/kg	1.82	0.640	1	A
Heptachlor epoxide	ND		ug/kg	3.41	1.02	1	A
Endrin	ND		ug/kg	0.758	0.310	1	A
Endrin aldehyde	ND		ug/kg	2.27	0.795	1	A
Endrin ketone	ND		ug/kg	1.82	0.468	1	A
Dieldrin	ND		ug/kg	1.14	0.568	1	A
4,4'-DDE	ND		ug/kg	1.82	0.420	1	A
4,4'-DDD	ND		ug/kg	1.82	0.648	1	A
4,4'-DDT	ND		ug/kg	3.41	1.46	1	A
Endosulfan I	ND		ug/kg	1.82	0.430	1	A
Endosulfan II	ND		ug/kg	1.82	0.608	1	A
Endosulfan sulfate	ND		ug/kg	0.758	0.360	1	A
Methoxychlor	ND		ug/kg	3.41	1.06	1	A
Toxaphene	ND		ug/kg	34.1	9.54	1	A
cis-Chlordane	ND		ug/kg	2.27	0.633	1	A
trans-Chlordane	ND		ug/kg	2.27	0.600	1	A
Chlordane	ND		ug/kg	15.2	6.02	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-08 Date Collected: 03/01/22 00:00

Client ID: DUP001 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-08
Client ID: DUP001
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 00:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 16:31
Analyst: AR
Percent Solids: 86%
Methylation Date: 03/13/22 22:40

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 07:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	192	12.1	1	B
2,4,5-T	ND		ug/kg	192	5.96	1	B
2,4,5-TP (Silvex)	ND		ug/kg	192	5.12	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	81		30-150	A
DCAA	87		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-09
Client ID: SB008 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 14:22
Analyst: JAW
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:52
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.67	0.327	1	A
Lindane	ND		ug/kg	0.696	0.311	1	A
Alpha-BHC	ND		ug/kg	0.696	0.198	1	A
Beta-BHC	ND		ug/kg	1.67	0.633	1	A
Heptachlor	ND		ug/kg	0.835	0.374	1	A
Aldrin	ND		ug/kg	1.67	0.588	1	A
Heptachlor epoxide	ND		ug/kg	3.13	0.939	1	A
Endrin	ND		ug/kg	0.696	0.285	1	A
Endrin aldehyde	ND		ug/kg	2.09	0.730	1	A
Endrin ketone	ND		ug/kg	1.67	0.430	1	A
Dieldrin	ND		ug/kg	1.04	0.522	1	A
4,4'-DDE	ND		ug/kg	1.67	0.386	1	A
4,4'-DDD	ND		ug/kg	1.67	0.595	1	A
4,4'-DDT	ND		ug/kg	3.13	1.34	1	A
Endosulfan I	ND		ug/kg	1.67	0.394	1	A
Endosulfan II	ND		ug/kg	1.67	0.558	1	A
Endosulfan sulfate	ND		ug/kg	0.696	0.331	1	A
Methoxychlor	ND		ug/kg	3.13	0.974	1	A
Toxaphene	ND		ug/kg	31.3	8.76	1	A
cis-Chlordane	ND		ug/kg	2.09	0.582	1	A
trans-Chlordane	ND		ug/kg	2.09	0.551	1	A
Chlordane	ND		ug/kg	13.9	5.53	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-09 Date Collected: 03/01/22 15:10

Client ID: SB008 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-09
Client ID: SB008 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 13:25
Analyst: AR
Percent Solids: 92%
Methylation Date: 03/13/22 19:30

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 08:22

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	5.60	1	A
2,4,5-TP (Silvex)	ND		ug/kg	180	4.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	83		30-150	A
DCAA	84		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-10
Client ID: SB008 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/15/22 12:12
Analyst: JAW
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:52
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.81	0.354	1	A
Lindane	ND		ug/kg	0.754	0.337	1	A
Alpha-BHC	ND		ug/kg	0.754	0.214	1	A
Beta-BHC	ND		ug/kg	1.81	0.686	1	A
Heptachlor	ND		ug/kg	0.905	0.406	1	A
Aldrin	ND		ug/kg	1.81	0.637	1	A
Heptachlor epoxide	ND		ug/kg	3.39	1.02	1	A
Endrin	ND		ug/kg	0.754	0.309	1	A
Endrin aldehyde	ND		ug/kg	2.26	0.792	1	A
Endrin ketone	ND		ug/kg	1.81	0.466	1	A
Dieldrin	ND		ug/kg	1.13	0.566	1	A
4,4'-DDE	ND		ug/kg	1.81	0.419	1	A
4,4'-DDD	ND		ug/kg	1.81	0.646	1	A
4,4'-DDT	ND		ug/kg	3.39	1.46	1	A
Endosulfan I	ND		ug/kg	1.81	0.428	1	A
Endosulfan II	ND		ug/kg	1.81	0.605	1	A
Endosulfan sulfate	ND		ug/kg	0.754	0.359	1	A
Methoxychlor	ND		ug/kg	3.39	1.06	1	A
Toxaphene	ND		ug/kg	33.9	9.50	1	A
cis-Chlordane	ND		ug/kg	2.26	0.630	1	A
trans-Chlordane	ND		ug/kg	2.26	0.597	1	A
Chlordane	ND		ug/kg	15.1	6.00	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-10 Date Collected: 03/01/22 15:05

Client ID: SB008 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	96		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-10
Client ID: SB008 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 16:50
Analyst: AR
Percent Solids: 86%
Methylation Date: 03/13/22 22:40

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 08:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	191	12.0	1	B
2,4,5-T	ND		ug/kg	191	5.92	1	B
2,4,5-TP (Silvex)	ND		ug/kg	191	5.08	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	82		30-150	A
DCAA	85		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-11
Client ID: DUP002
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 00:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 15:05
Analyst: AR
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:52
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.339	1	A
Lindane	ND		ug/kg	0.722	0.323	1	A
Alpha-BHC	ND		ug/kg	0.722	0.205	1	A
Beta-BHC	ND		ug/kg	1.73	0.657	1	A
Heptachlor	46.6		ug/kg	0.866	0.388	1	B
Aldrin	ND		ug/kg	1.73	0.610	1	A
Heptachlor epoxide	ND		ug/kg	3.25	0.975	1	A
Endrin	ND		ug/kg	0.722	0.296	1	A
Endrin aldehyde	ND		ug/kg	2.17	0.758	1	A
Endrin ketone	ND		ug/kg	1.73	0.446	1	A
Dieldrin	ND		ug/kg	1.08	0.542	1	A
4,4'-DDE	ND		ug/kg	1.73	0.401	1	A
4,4'-DDD	ND		ug/kg	1.73	0.618	1	A
4,4'-DDT	ND		ug/kg	3.25	1.39	1	A
Endosulfan I	ND		ug/kg	1.73	0.409	1	A
Endosulfan II	ND		ug/kg	1.73	0.579	1	A
Endosulfan sulfate	ND		ug/kg	0.722	0.344	1	A
Methoxychlor	ND		ug/kg	3.25	1.01	1	A
Toxaphene	ND		ug/kg	32.5	9.10	1	A
cis-Chlordane	751	E	ug/kg	2.17	0.604	1	A
trans-Chlordane	654	E	ug/kg	2.17	0.572	1	B
Chlordane	4850	E	ug/kg	14.4	5.74	1	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-11 Date Collected: 03/01/22 00:00

Client ID: DUP002 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-11
Client ID: DUP002
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 00:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 17:08
Analyst: AR
Percent Solids: 89%
Methylation Date: 03/13/22 19:30

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 08:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	183	11.5	1	B
2,4,5-T	ND		ug/kg	183	5.67	1	B
2,4,5-TP (Silvex)	ND		ug/kg	183	4.86	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	70		30-150	A
DCAA	76		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-11 D
Client ID: DUP002
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 00:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/18/22 11:09
Analyst: EJL
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:52
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
cis-Chlordane	575	IP	ug/kg	21.7	6.04	10	B
trans-Chlordane	990		ug/kg	21.7	5.72	10	A
Chlordane	5820		ug/kg	144	57.4	10	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-12
Client ID: SB008 2-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 15:16
Analyst: JAW
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:52
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.333	1	A
Lindane	ND		ug/kg	0.709	0.317	1	A
Alpha-BHC	ND		ug/kg	0.709	0.201	1	A
Beta-BHC	ND		ug/kg	1.70	0.645	1	A
Heptachlor	ND		ug/kg	0.851	0.382	1	A
Aldrin	ND		ug/kg	1.70	0.599	1	A
Heptachlor epoxide	ND		ug/kg	3.19	0.957	1	A
Endrin	ND		ug/kg	0.709	0.291	1	A
Endrin aldehyde	ND		ug/kg	2.13	0.745	1	A
Endrin ketone	ND		ug/kg	1.70	0.438	1	A
Dieldrin	ND		ug/kg	1.06	0.532	1	A
4,4'-DDE	ND		ug/kg	1.70	0.394	1	A
4,4'-DDD	ND		ug/kg	1.70	0.607	1	A
4,4'-DDT	ND		ug/kg	3.19	1.37	1	A
Endosulfan I	ND		ug/kg	1.70	0.402	1	A
Endosulfan II	ND		ug/kg	1.70	0.569	1	A
Endosulfan sulfate	ND		ug/kg	0.709	0.338	1	A
Methoxychlor	ND		ug/kg	3.19	0.993	1	A
Toxaphene	ND		ug/kg	31.9	8.94	1	A
cis-Chlordane	ND		ug/kg	2.13	0.593	1	A
trans-Chlordane	ND		ug/kg	2.13	0.562	1	A
Chlordane	ND		ug/kg	14.2	5.64	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-12 Date Collected: 03/01/22 15:15

Client ID: SB008 2-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-12
Client ID: SB008 2-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 17:27
Analyst: AR
Percent Solids: 88%
Methylation Date: 03/13/22 22:40

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 08:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	186	11.7	1	B
2,4,5-T	ND		ug/kg	186	5.78	1	B
2,4,5-TP (Silvex)	ND		ug/kg	186	4.96	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	84		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-13
Client ID: SB005 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:20
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 15:27
Analyst: AR
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:52
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.77	0.346	1	A
Lindane	ND		ug/kg	0.736	0.329	1	A
Alpha-BHC	ND		ug/kg	0.736	0.209	1	A
Beta-BHC	ND		ug/kg	1.77	0.670	1	A
Heptachlor	108		ug/kg	0.884	0.396	1	B
Aldrin	ND		ug/kg	1.77	0.622	1	A
Heptachlor epoxide	ND		ug/kg	3.31	0.994	1	A
Endrin	ND		ug/kg	0.736	0.302	1	A
Endrin aldehyde	ND		ug/kg	2.21	0.773	1	A
Endrin ketone	ND		ug/kg	1.77	0.455	1	A
Dieldrin	ND		ug/kg	1.10	0.552	1	A
4,4'-DDE	ND		ug/kg	1.77	0.409	1	A
4,4'-DDD	ND		ug/kg	1.77	0.630	1	A
4,4'-DDT	ND		ug/kg	3.31	1.42	1	A
Endosulfan I	ND		ug/kg	1.77	0.418	1	A
Endosulfan II	ND		ug/kg	1.77	0.590	1	A
Endosulfan sulfate	ND		ug/kg	0.736	0.350	1	A
Methoxychlor	ND		ug/kg	3.31	1.03	1	A
Toxaphene	ND		ug/kg	33.1	9.28	1	A
cis-Chlordane	635	E	ug/kg	2.21	0.616	1	A
trans-Chlordane	564	E	ug/kg	2.21	0.583	1	B
Chlordane	5800	E	ug/kg	14.7	5.85	1	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-13 Date Collected: 03/01/22 17:20

Client ID: SB005 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	142		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-13
Client ID: SB005 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:20
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 17:46
Analyst: AR
Percent Solids: 89%
Methylation Date: 03/13/22 19:30

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 08:22

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	B
2,4,5-T	ND		ug/kg	184	5.70	1	B
2,4,5-TP (Silvex)	ND		ug/kg	184	4.89	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	72		30-150	A
DCAA	77		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-13 D
Client ID: SB005 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:20
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/18/22 11:21
Analyst: EJL
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:52
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
cis-Chlordane	514	IP	ug/kg	22.1	6.16	10	B
trans-Chlordane	798		ug/kg	22.1	5.83	10	A
Chlordane	6640		ug/kg	147	58.5	10	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-14
Client ID: SB001 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 23:48
Analyst: JAW
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:54
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.64	0.322	1	A
Lindane	ND		ug/kg	0.685	0.306	1	A
Alpha-BHC	ND		ug/kg	0.685	0.194	1	A
Beta-BHC	ND		ug/kg	1.64	0.623	1	A
Heptachlor	ND		ug/kg	0.822	0.368	1	A
Aldrin	ND		ug/kg	1.64	0.579	1	A
Heptachlor epoxide	ND		ug/kg	3.08	0.925	1	A
Endrin	ND		ug/kg	0.685	0.281	1	A
Endrin aldehyde	ND		ug/kg	2.05	0.719	1	A
Endrin ketone	ND		ug/kg	1.64	0.423	1	A
Dieldrin	ND		ug/kg	1.03	0.514	1	A
4,4'-DDE	1.74		ug/kg	1.64	0.380	1	A
4,4'-DDD	0.857	J	ug/kg	1.64	0.586	1	B
4,4'-DDT	8.74		ug/kg	3.08	1.32	1	B
Endosulfan I	ND		ug/kg	1.64	0.388	1	A
Endosulfan II	ND		ug/kg	1.64	0.549	1	A
Endosulfan sulfate	ND		ug/kg	0.685	0.326	1	A
Methoxychlor	ND		ug/kg	3.08	0.959	1	A
Toxaphene	ND		ug/kg	30.8	8.63	1	A
cis-Chlordane	0.726	J	ug/kg	2.05	0.572	1	A
trans-Chlordane	1.53	JP	ug/kg	2.05	0.542	1	B
Chlordane	ND		ug/kg	13.7	5.44	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-14 Date Collected: 03/01/22 16:05

Client ID: SB001 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-14
Client ID: SB001 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 18:23
Analyst: AR
Percent Solids: 95%
Methylation Date: 03/13/22 22:40

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 08:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	173	10.9	1	A
2,4,5-T	ND		ug/kg	173	5.35	1	A
2,4,5-TP (Silvex)	ND		ug/kg	173	4.59	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	92		30-150	A
DCAA	81		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-15
Client ID: SB001 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 23:59
Analyst: JAW
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:54
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	0.329	1	A
Lindane	ND		ug/kg	0.700	0.313	1	A
Alpha-BHC	ND		ug/kg	0.700	0.199	1	A
Beta-BHC	ND		ug/kg	1.68	0.637	1	A
Heptachlor	ND		ug/kg	0.840	0.377	1	A
Aldrin	ND		ug/kg	1.68	0.592	1	A
Heptachlor epoxide	ND		ug/kg	3.15	0.945	1	A
Endrin	ND		ug/kg	0.700	0.287	1	A
Endrin aldehyde	ND		ug/kg	2.10	0.735	1	A
Endrin ketone	ND		ug/kg	1.68	0.433	1	A
Dieldrin	4.00		ug/kg	1.05	0.525	1	B
4,4'-DDE	19.1		ug/kg	1.68	0.388	1	B
4,4'-DDD	1.97		ug/kg	1.68	0.599	1	B
4,4'-DDT	36.3		ug/kg	3.15	1.35	1	B
Endosulfan I	ND		ug/kg	1.68	0.397	1	A
Endosulfan II	ND		ug/kg	1.68	0.561	1	A
Endosulfan sulfate	ND		ug/kg	0.700	0.333	1	A
Methoxychlor	ND		ug/kg	3.15	0.980	1	A
Toxaphene	ND		ug/kg	31.5	8.82	1	A
cis-Chlordane	ND	IP	ug/kg	2.10	0.585	1	A
trans-Chlordane	1.31	J	ug/kg	2.10	0.554	1	B
Chlordane	ND		ug/kg	14.0	5.56	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-15 Date Collected: 03/01/22 16:10

Client ID: SB001 4-6 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	103		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-15
Client ID: SB001 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 18:41
Analyst: AR
Percent Solids: 90%
Methylation Date: 03/13/22 22:40

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 08:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	183	11.5	1	A
2,4,5-T	ND		ug/kg	183	5.66	1	A
2,4,5-TP (Silvex)	ND		ug/kg	183	4.86	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	72		30-150	A
DCAA	76		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-16
Client ID: SB005 8-10
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/15/22 00:10
Analyst: JAW
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:54
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.337	1	A
Lindane	ND		ug/kg	0.717	0.321	1	A
Alpha-BHC	ND		ug/kg	0.717	0.204	1	A
Beta-BHC	ND		ug/kg	1.72	0.653	1	A
Heptachlor	ND		ug/kg	0.861	0.386	1	A
Aldrin	ND		ug/kg	1.72	0.606	1	A
Heptachlor epoxide	ND		ug/kg	3.23	0.969	1	A
Endrin	ND		ug/kg	0.717	0.294	1	A
Endrin aldehyde	ND		ug/kg	2.15	0.753	1	A
Endrin ketone	ND		ug/kg	1.72	0.443	1	A
Dieldrin	ND		ug/kg	1.08	0.538	1	A
4,4'-DDE	ND		ug/kg	1.72	0.398	1	A
4,4'-DDD	ND		ug/kg	1.72	0.614	1	A
4,4'-DDT	ND		ug/kg	3.23	1.38	1	A
Endosulfan I	ND		ug/kg	1.72	0.407	1	A
Endosulfan II	ND		ug/kg	1.72	0.575	1	A
Endosulfan sulfate	ND		ug/kg	0.717	0.342	1	A
Methoxychlor	ND		ug/kg	3.23	1.00	1	A
Toxaphene	ND		ug/kg	32.3	9.04	1	A
cis-Chlordane	30.9		ug/kg	2.15	0.600	1	A
trans-Chlordane	21.2	IP	ug/kg	2.15	0.568	1	A
Chlordane	ND		ug/kg	14.3	5.70	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-16 Date Collected: 03/01/22 17:25

Client ID: SB005 8-10 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	45		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-16
Client ID: SB005 8-10
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 19:00
Analyst: AR
Percent Solids: 89%
Methylation Date: 03/13/22 19:30

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 08:22

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	5.71	1	A
2,4,5-TP (Silvex)	ND		ug/kg	184	4.90	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	81		30-150	A
DCAA	91		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-17
Client ID: SB002 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:45
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/15/22 00:21
Analyst: JAW
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:54
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

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	0.771	0.344	1	A
Alpha-BHC	ND		ug/kg	0.771	0.219	1	A
Beta-BHC	ND		ug/kg	1.85	0.701	1	A
Heptachlor	ND		ug/kg	0.925	0.415	1	A
Aldrin	ND		ug/kg	1.85	0.651	1	A
Heptachlor epoxide	ND		ug/kg	3.47	1.04	1	A
Endrin	ND		ug/kg	0.771	0.316	1	A
Endrin aldehyde	ND		ug/kg	2.31	0.809	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	0.428	1	A
4,4'-DDD	ND		ug/kg	1.85	0.660	1	A
4,4'-DDT	ND		ug/kg	3.47	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	0.771	0.367	1	A
Methoxychlor	ND		ug/kg	3.47	1.08	1	A
Toxaphene	ND		ug/kg	34.7	9.71	1	A
cis-Chlordane	ND		ug/kg	2.31	0.644	1	A
trans-Chlordane	ND		ug/kg	2.31	0.610	1	A
Chlordane	ND		ug/kg	15.4	6.13	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-17 Date Collected: 03/01/22 15:45

Client ID: SB002 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-17
Client ID: SB002 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:45
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 19:19
Analyst: AR
Percent Solids: 86%
Methylation Date: 03/13/22 22:40

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 08:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	193	12.2	1	A
2,4,5-T	ND		ug/kg	193	5.99	1	A
2,4,5-TP (Silvex)	ND		ug/kg	193	5.14	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	81		30-150	A
DCAA	85		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-18
Client ID: SB004 2-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/15/22 00:32
Analyst: JAW
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:54
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.79	0.350	1	A
Lindane	ND		ug/kg	0.745	0.333	1	A
Alpha-BHC	ND		ug/kg	0.745	0.212	1	A
Beta-BHC	ND		ug/kg	1.79	0.678	1	A
Heptachlor	ND		ug/kg	0.894	0.401	1	A
Aldrin	ND		ug/kg	1.79	0.629	1	A
Heptachlor epoxide	ND		ug/kg	3.35	1.00	1	A
Endrin	ND		ug/kg	0.745	0.305	1	A
Endrin aldehyde	ND		ug/kg	2.23	0.782	1	A
Endrin ketone	ND		ug/kg	1.79	0.460	1	A
Dieldrin	ND		ug/kg	1.12	0.559	1	A
4,4'-DDE	ND		ug/kg	1.79	0.413	1	A
4,4'-DDD	ND		ug/kg	1.79	0.638	1	A
4,4'-DDT	ND		ug/kg	3.35	1.44	1	A
Endosulfan I	ND		ug/kg	1.79	0.422	1	A
Endosulfan II	ND		ug/kg	1.79	0.597	1	A
Endosulfan sulfate	ND		ug/kg	0.745	0.354	1	A
Methoxychlor	ND		ug/kg	3.35	1.04	1	A
Toxaphene	ND		ug/kg	33.5	9.38	1	A
cis-Chlordane	ND		ug/kg	2.23	0.623	1	A
trans-Chlordane	ND		ug/kg	2.23	0.590	1	A
Chlordane	ND		ug/kg	14.9	5.92	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-18 Date Collected: 03/01/22 17:05

Client ID: SB004 2-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-18
Client ID: SB004 2-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 19:37
Analyst: AR
Percent Solids: 87%
Methylation Date: 03/13/22 22:40

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 08:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	188	11.8	1	A
2,4,5-T	ND		ug/kg	188	5.82	1	A
2,4,5-TP (Silvex)	ND		ug/kg	188	4.99	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	73		30-150	A
DCAA	85		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-19
Client ID: SB002 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/15/22 00:43
Analyst: JAW
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:54
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.325	1	A
Lindane	ND		ug/kg	0.692	0.309	1	A
Alpha-BHC	ND		ug/kg	0.692	0.196	1	A
Beta-BHC	ND		ug/kg	1.66	0.629	1	A
Heptachlor	ND		ug/kg	0.830	0.372	1	A
Aldrin	ND		ug/kg	1.66	0.584	1	A
Heptachlor epoxide	ND		ug/kg	3.11	0.934	1	A
Endrin	ND		ug/kg	0.692	0.284	1	A
Endrin aldehyde	ND		ug/kg	2.07	0.726	1	A
Endrin ketone	ND		ug/kg	1.66	0.427	1	A
Dieldrin	ND		ug/kg	1.04	0.519	1	A
4,4'-DDE	ND		ug/kg	1.66	0.384	1	A
4,4'-DDD	ND		ug/kg	1.66	0.592	1	A
4,4'-DDT	ND		ug/kg	3.11	1.33	1	A
Endosulfan I	ND		ug/kg	1.66	0.392	1	A
Endosulfan II	ND		ug/kg	1.66	0.554	1	A
Endosulfan sulfate	ND		ug/kg	0.692	0.329	1	A
Methoxychlor	ND		ug/kg	3.11	0.968	1	A
Toxaphene	ND		ug/kg	31.1	8.71	1	A
cis-Chlordane	ND		ug/kg	2.07	0.578	1	A
trans-Chlordane	ND		ug/kg	2.07	0.548	1	A
Chlordane	ND		ug/kg	13.8	5.50	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-19 Date Collected: 03/01/22 16:05

Client ID: SB002 18-20 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-19
Client ID: SB002 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 11:12
Analyst: EJL
Percent Solids: 92%
Methylation Date: 03/13/22 22:40

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 13:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	177	11.2	1	A
2,4,5-T	ND		ug/kg	177	5.50	1	A
2,4,5-TP (Silvex)	ND		ug/kg	177	4.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	82		30-150	A
DCAA	68		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-20
Client ID: SB003 15-17
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 11:56
Analyst: JAW
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:00
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.65	0.324	1	A
Lindane	ND		ug/kg	0.688	0.308	1	A
Alpha-BHC	ND		ug/kg	0.688	0.196	1	A
Beta-BHC	ND		ug/kg	1.65	0.626	1	A
Heptachlor	ND		ug/kg	0.826	0.370	1	A
Aldrin	ND		ug/kg	1.65	0.582	1	A
Heptachlor epoxide	ND		ug/kg	3.10	0.929	1	A
Endrin	ND		ug/kg	0.688	0.282	1	A
Endrin aldehyde	ND		ug/kg	2.06	0.723	1	A
Endrin ketone	ND		ug/kg	1.65	0.425	1	A
Dieldrin	ND		ug/kg	1.03	0.516	1	A
4,4'-DDE	ND		ug/kg	1.65	0.382	1	A
4,4'-DDD	ND		ug/kg	1.65	0.589	1	A
4,4'-DDT	ND		ug/kg	3.10	1.33	1	A
Endosulfan I	ND		ug/kg	1.65	0.390	1	A
Endosulfan II	ND		ug/kg	1.65	0.552	1	A
Endosulfan sulfate	ND		ug/kg	0.688	0.328	1	A
Methoxychlor	ND		ug/kg	3.10	0.964	1	A
Toxaphene	ND		ug/kg	31.0	8.67	1	A
cis-Chlordane	ND		ug/kg	2.06	0.576	1	A
trans-Chlordane	ND		ug/kg	2.06	0.545	1	A
Chlordane	ND		ug/kg	13.8	5.47	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-20 Date Collected: 03/01/22 12:30

Client ID: SB003 15-17 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-20
Client ID: SB003 15-17
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 11:30
Analyst: EJL
Percent Solids: 96%
Methylation Date: 03/13/22 22:40

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 13:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	173	10.9	1	A
2,4,5-T	ND		ug/kg	173	5.35	1	A
2,4,5-TP (Silvex)	ND		ug/kg	173	4.59	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	91		30-150	A
DCAA	73		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-21
Client ID: SB011 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 10:54
Analyst: EJL
Percent Solids: 88%
Methylation Date: 03/13/22 22:40

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 13:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	186	11.8	1	A
2,4,5-T	ND		ug/kg	186	5.78	1	A
2,4,5-TP (Silvex)	ND		ug/kg	186	4.96	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	38		30-150	A
DCAA	34		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-21 D
Client ID: SB011 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 12:08
Analyst: JAW
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:00
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	17.9	3.50	10	A
Lindane	ND		ug/kg	7.45	3.33	10	A
Alpha-BHC	ND		ug/kg	7.45	2.12	10	A
Beta-BHC	ND		ug/kg	17.9	6.78	10	A
Heptachlor	ND		ug/kg	8.94	4.01	10	A
Aldrin	ND		ug/kg	17.9	6.29	10	A
Heptachlor epoxide	ND		ug/kg	33.5	10.0	10	A
Endrin	ND		ug/kg	7.45	3.05	10	A
Endrin aldehyde	ND		ug/kg	22.3	7.82	10	A
Endrin ketone	ND		ug/kg	17.9	4.60	10	A
Dieldrin	ND		ug/kg	11.2	5.59	10	A
4,4'-DDE	ND		ug/kg	17.9	4.13	10	A
4,4'-DDD	ND		ug/kg	17.9	6.38	10	A
4,4'-DDT	ND		ug/kg	33.5	14.4	10	A
Endosulfan I	ND		ug/kg	17.9	4.22	10	A
Endosulfan II	ND		ug/kg	17.9	5.97	10	A
Endosulfan sulfate	ND		ug/kg	7.45	3.54	10	A
Methoxychlor	ND		ug/kg	33.5	10.4	10	A
Toxaphene	ND		ug/kg	335	93.8	10	A
cis-Chlordane	ND		ug/kg	22.3	6.23	10	A
trans-Chlordane	ND		ug/kg	22.3	5.90	10	A
Chlordane	ND		ug/kg	149	59.2	10	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-21 D
Client ID: SB011 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	127		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-22
Client ID: SB003 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 11:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/15/22 11:50
Analyst: JAW
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 03/14/22 13:36
Cleanup Method: EPA 3620B
Cleanup Date: 03/15/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.82	0.356	1	B
Lindane	ND		ug/kg	0.758	0.339	1	B
Alpha-BHC	ND		ug/kg	0.758	0.215	1	B
Beta-BHC	ND		ug/kg	1.82	0.690	1	B
Heptachlor	ND		ug/kg	0.910	0.408	1	B
Aldrin	ND		ug/kg	1.82	0.641	1	B
Heptachlor epoxide	ND		ug/kg	3.41	1.02	1	B
Endrin	ND		ug/kg	0.758	0.311	1	B
Endrin aldehyde	ND		ug/kg	2.28	0.796	1	B
Endrin ketone	ND		ug/kg	1.82	0.469	1	B
Dieldrin	ND		ug/kg	1.14	0.569	1	B
4,4'-DDE	2.73		ug/kg	1.82	0.421	1	B
4,4'-DDD	5.69	P	ug/kg	1.82	0.649	1	B
4,4'-DDT	ND		ug/kg	3.41	1.46	1	B
Endosulfan I	ND		ug/kg	1.82	0.430	1	B
Endosulfan II	ND		ug/kg	1.82	0.608	1	B
Endosulfan sulfate	ND		ug/kg	0.758	0.361	1	B
Methoxychlor	ND		ug/kg	3.41	1.06	1	B
Toxaphene	ND		ug/kg	34.1	9.56	1	B
cis-Chlordane	ND		ug/kg	2.28	0.634	1	B
trans-Chlordane	ND		ug/kg	2.28	0.601	1	B
Chlordane	ND		ug/kg	15.2	6.03	1	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-22 Date Collected: 03/01/22 11:05

Client ID: SB003 3-5 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	31		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	126		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-22
Client ID: SB003 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 11:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 11:49
Analyst: EJL
Percent Solids: 87%
Methylation Date: 03/13/22 22:40

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 13:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	188	11.8	1	A
2,4,5-T	ND		ug/kg	188	5.82	1	A
2,4,5-TP (Silvex)	ND		ug/kg	188	4.99	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	100		30-150	A
DCAA	78		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-23
Client ID: SB011 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:55
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 12:20
Analyst: JAW
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:00
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.336	1	A
Lindane	ND		ug/kg	0.715	0.320	1	A
Alpha-BHC	ND		ug/kg	0.715	0.203	1	A
Beta-BHC	ND		ug/kg	1.72	0.651	1	A
Heptachlor	ND		ug/kg	0.858	0.385	1	A
Aldrin	ND		ug/kg	1.72	0.604	1	A
Heptachlor epoxide	ND		ug/kg	3.22	0.966	1	A
Endrin	ND		ug/kg	0.715	0.293	1	A
Endrin aldehyde	ND		ug/kg	2.14	0.751	1	A
Endrin ketone	ND		ug/kg	1.72	0.442	1	A
Dieldrin	ND		ug/kg	1.07	0.536	1	A
4,4'-DDE	ND		ug/kg	1.72	0.397	1	A
4,4'-DDD	ND		ug/kg	1.72	0.612	1	A
4,4'-DDT	ND		ug/kg	3.22	1.38	1	A
Endosulfan I	ND		ug/kg	1.72	0.406	1	A
Endosulfan II	ND		ug/kg	1.72	0.574	1	A
Endosulfan sulfate	ND		ug/kg	0.715	0.340	1	A
Methoxychlor	ND		ug/kg	3.22	1.00	1	A
Toxaphene	ND		ug/kg	32.2	9.01	1	A
cis-Chlordane	ND		ug/kg	2.14	0.598	1	A
trans-Chlordane	ND		ug/kg	2.14	0.566	1	A
Chlordane	ND		ug/kg	14.3	5.69	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-23 Date Collected: 03/01/22 10:55

Client ID: SB011 18-20 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	112		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-23
Client ID: SB011 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:55
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 12:07
Analyst: EJL
Percent Solids: 91%
Methylation Date: 03/13/22 22:40

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 13:00

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	5.60	1	A
2,4,5-TP (Silvex)	ND		ug/kg	180	4.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	86		30-150	A
DCAA	73		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-24
Client ID: SB011 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:45
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 12:32
Analyst: JAW
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:00
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.77	0.347	1	B
Lindane	ND		ug/kg	0.738	0.330	1	B
Alpha-BHC	ND		ug/kg	0.738	0.210	1	B
Beta-BHC	ND		ug/kg	1.77	0.672	1	B
Heptachlor	ND		ug/kg	0.886	0.397	1	B
Aldrin	ND		ug/kg	1.77	0.624	1	B
Heptachlor epoxide	ND		ug/kg	3.32	0.996	1	B
Endrin	ND		ug/kg	0.738	0.302	1	B
Endrin aldehyde	ND		ug/kg	2.21	0.775	1	B
Endrin ketone	ND		ug/kg	1.77	0.456	1	B
Dieldrin	ND		ug/kg	1.11	0.553	1	B
4,4'-DDE	ND		ug/kg	1.77	0.410	1	B
4,4'-DDD	ND		ug/kg	1.77	0.632	1	B
4,4'-DDT	ND		ug/kg	3.32	1.42	1	B
Endosulfan I	ND		ug/kg	1.77	0.418	1	B
Endosulfan II	ND		ug/kg	1.77	0.592	1	B
Endosulfan sulfate	ND		ug/kg	0.738	0.351	1	B
Methoxychlor	ND		ug/kg	3.32	1.03	1	B
Toxaphene	ND		ug/kg	33.2	9.30	1	B
cis-Chlordane	ND		ug/kg	2.21	0.617	1	B
trans-Chlordane	ND		ug/kg	2.21	0.584	1	B
Chlordane	ND		ug/kg	14.8	5.87	1	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-24 Date Collected: 03/01/22 10:45

Client ID: SB011 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**13**	Q	30-150	A
Decachlorobiphenyl	**19**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-24
Client ID: SB011 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:45
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 12:25
Analyst: EJL
Percent Solids: 85%
Methylation Date: 03/13/22 22:40

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 13:00

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	6.06	1	A
2,4,5-TP (Silvex)	ND		ug/kg	195	5.20	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	65		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-25
Client ID: SB010 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 12:44
Analyst: JAW
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:00
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	0.330	1	A
Lindane	ND		ug/kg	0.703	0.314	1	A
Alpha-BHC	ND		ug/kg	0.703	0.200	1	A
Beta-BHC	ND		ug/kg	1.69	0.640	1	A
Heptachlor	ND		ug/kg	0.843	0.378	1	A
Aldrin	ND		ug/kg	1.69	0.594	1	A
Heptachlor epoxide	ND		ug/kg	3.16	0.949	1	A
Endrin	ND		ug/kg	0.703	0.288	1	A
Endrin aldehyde	ND		ug/kg	2.11	0.738	1	A
Endrin ketone	ND		ug/kg	1.69	0.434	1	A
Dieldrin	1.64		ug/kg	1.05	0.527	1	A
4,4'-DDE	3.66		ug/kg	1.69	0.390	1	B
4,4'-DDD	ND		ug/kg	1.69	0.602	1	A
4,4'-DDT	2.18	J	ug/kg	3.16	1.36	1	A
Endosulfan I	ND		ug/kg	1.69	0.398	1	A
Endosulfan II	ND		ug/kg	1.69	0.564	1	A
Endosulfan sulfate	ND		ug/kg	0.703	0.334	1	A
Methoxychlor	ND		ug/kg	3.16	0.984	1	A
Toxaphene	ND		ug/kg	31.6	8.86	1	A
cis-Chlordane	7.94		ug/kg	2.11	0.588	1	A
trans-Chlordane	7.34		ug/kg	2.11	0.557	1	A
Chlordane	41.4	P	ug/kg	14.0	5.59	1	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-25 Date Collected: 03/01/22 12:05

Client ID: SB010 4-6 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-25
Client ID: SB010 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 12:43
Analyst: EJL
Percent Solids: 90%
Methylation Date: 03/13/22 22:40

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 13:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	183	11.5	1	A
2,4,5-T	ND		ug/kg	183	5.67	1	A
2,4,5-TP (Silvex)	ND		ug/kg	183	4.87	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	91		30-150	A
DCAA	74		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-26
Client ID: SB010 8-10
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 12:56
Analyst: JAW
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:00
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.77	0.346	1	A
Lindane	ND		ug/kg	0.736	0.329	1	A
Alpha-BHC	ND		ug/kg	0.736	0.209	1	A
Beta-BHC	ND		ug/kg	1.77	0.670	1	A
Heptachlor	ND		ug/kg	0.884	0.396	1	A
Aldrin	ND		ug/kg	1.77	0.622	1	A
Heptachlor epoxide	ND		ug/kg	3.31	0.994	1	A
Endrin	ND		ug/kg	0.736	0.302	1	A
Endrin aldehyde	ND		ug/kg	2.21	0.773	1	A
Endrin ketone	ND		ug/kg	1.77	0.455	1	A
Dieldrin	ND		ug/kg	1.10	0.552	1	A
4,4'-DDE	ND		ug/kg	1.77	0.409	1	A
4,4'-DDD	ND		ug/kg	1.77	0.630	1	A
4,4'-DDT	ND		ug/kg	3.31	1.42	1	A
Endosulfan I	ND		ug/kg	1.77	0.418	1	A
Endosulfan II	ND		ug/kg	1.77	0.590	1	A
Endosulfan sulfate	ND		ug/kg	0.736	0.350	1	A
Methoxychlor	ND		ug/kg	3.31	1.03	1	A
Toxaphene	ND		ug/kg	33.1	9.28	1	A
cis-Chlordane	ND		ug/kg	2.21	0.616	1	A
trans-Chlordane	ND		ug/kg	2.21	0.583	1	A
Chlordane	ND		ug/kg	14.7	5.85	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-26 Date Collected: 03/01/22 12:10

Client ID: SB010 8-10 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-26
Client ID: SB010 8-10
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 13:02
Analyst: EJL
Percent Solids: 88%
Methylation Date: 03/13/22 22:40

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 13:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	190	12.0	1	A
2,4,5-T	ND		ug/kg	190	5.89	1	A
2,4,5-TP (Silvex)	ND		ug/kg	190	5.05	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	73		30-150	A
DCAA	60		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-27
Client ID: SB003 9-11
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 13:08
Analyst: JAW
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:00
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.79	0.350	1	B
Lindane	ND		ug/kg	0.746	0.333	1	B
Alpha-BHC	ND		ug/kg	0.746	0.212	1	B
Beta-BHC	ND		ug/kg	1.79	0.679	1	B
Heptachlor	ND		ug/kg	0.895	0.401	1	B
Aldrin	ND		ug/kg	1.79	0.630	1	B
Heptachlor epoxide	ND		ug/kg	3.36	1.01	1	B
Endrin	ND		ug/kg	0.746	0.306	1	B
Endrin aldehyde	ND		ug/kg	2.24	0.783	1	B
Endrin ketone	ND		ug/kg	1.79	0.461	1	B
Dieldrin	ND		ug/kg	1.12	0.559	1	B
4,4'-DDE	ND		ug/kg	1.79	0.414	1	B
4,4'-DDD	1.83		ug/kg	1.79	0.638	1	B
4,4'-DDT	ND		ug/kg	3.36	1.44	1	B
Endosulfan I	ND		ug/kg	1.79	0.423	1	B
Endosulfan II	ND		ug/kg	1.79	0.598	1	B
Endosulfan sulfate	ND		ug/kg	0.746	0.355	1	B
Methoxychlor	ND		ug/kg	3.36	1.04	1	B
Toxaphene	ND		ug/kg	33.6	9.40	1	B
cis-Chlordane	ND		ug/kg	2.24	0.624	1	B
trans-Chlordane	ND		ug/kg	2.24	0.591	1	B
Chlordane	ND		ug/kg	14.9	5.93	1	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-27 Date Collected: 03/01/22 12:15

Client ID: SB003 9-11 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	34		30-150	A
Decachlorobiphenyl	38		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-27
Client ID: SB003 9-11
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/15/22 13:20
Analyst: EJL
Percent Solids: 87%
Methylation Date: 03/13/22 22:40

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 13:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	192	12.1	1	A
2,4,5-T	ND		ug/kg	192	5.96	1	A
2,4,5-TP (Silvex)	ND		ug/kg	192	5.11	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	89		30-150	A
DCAA	72		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-28
Client ID: SB003 20-22
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 13:20
Analyst: JAW
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:00
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.338	1	A
Lindane	ND		ug/kg	0.720	0.322	1	A
Alpha-BHC	ND		ug/kg	0.720	0.204	1	A
Beta-BHC	ND		ug/kg	1.73	0.655	1	A
Heptachlor	ND		ug/kg	0.864	0.387	1	A
Aldrin	ND		ug/kg	1.73	0.608	1	A
Heptachlor epoxide	ND		ug/kg	3.24	0.972	1	A
Endrin	ND		ug/kg	0.720	0.295	1	A
Endrin aldehyde	ND		ug/kg	2.16	0.756	1	A
Endrin ketone	ND		ug/kg	1.73	0.445	1	A
Dieldrin	ND		ug/kg	1.08	0.540	1	A
4,4'-DDE	ND		ug/kg	1.73	0.399	1	A
4,4'-DDD	ND		ug/kg	1.73	0.616	1	A
4,4'-DDT	ND		ug/kg	3.24	1.39	1	A
Endosulfan I	ND		ug/kg	1.73	0.408	1	A
Endosulfan II	ND		ug/kg	1.73	0.577	1	A
Endosulfan sulfate	ND		ug/kg	0.720	0.343	1	A
Methoxychlor	ND		ug/kg	3.24	1.01	1	A
Toxaphene	ND		ug/kg	32.4	9.07	1	A
cis-Chlordane	ND		ug/kg	2.16	0.602	1	A
trans-Chlordane	ND		ug/kg	2.16	0.570	1	A
Chlordane	ND		ug/kg	14.4	5.72	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-28 Date Collected: 03/01/22 12:40

Client ID: SB003 20-22 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	44		30-150	A
Decachlorobiphenyl	36		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-28
Client ID: SB003 20-22
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/16/22 08:54
Analyst: EJL
Percent Solids: 91%
Methylation Date: 03/15/22 11:57

Extraction Method: EPA 8151A
Extraction Date: 03/14/22 08:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	178	11.2	1	A
2,4,5-T	ND		ug/kg	178	5.53	1	A
2,4,5-TP (Silvex)	ND		ug/kg	178	4.75	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	97		30-150	A
DCAA	80		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-29
Client ID: SB005 12-14
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 13:32
Analyst: JAW
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:00
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.338	1	A
Lindane	ND		ug/kg	0.720	0.322	1	A
Alpha-BHC	ND		ug/kg	0.720	0.204	1	A
Beta-BHC	ND		ug/kg	1.73	0.655	1	A
Heptachlor	ND		ug/kg	0.864	0.387	1	A
Aldrin	ND		ug/kg	1.73	0.608	1	A
Heptachlor epoxide	ND		ug/kg	3.24	0.972	1	A
Endrin	ND		ug/kg	0.720	0.295	1	A
Endrin aldehyde	ND		ug/kg	2.16	0.756	1	A
Endrin ketone	ND		ug/kg	1.73	0.445	1	A
Dieldrin	ND		ug/kg	1.08	0.540	1	A
4,4'-DDE	ND		ug/kg	1.73	0.399	1	A
4,4'-DDD	ND		ug/kg	1.73	0.616	1	A
4,4'-DDT	ND		ug/kg	3.24	1.39	1	A
Endosulfan I	ND		ug/kg	1.73	0.408	1	A
Endosulfan II	ND		ug/kg	1.73	0.577	1	A
Endosulfan sulfate	ND		ug/kg	0.720	0.343	1	A
Methoxychlor	ND		ug/kg	3.24	1.01	1	A
Toxaphene	ND		ug/kg	32.4	9.07	1	A
cis-Chlordane	0.835	J	ug/kg	2.16	0.602	1	A
trans-Chlordane	1.24	J	ug/kg	2.16	0.570	1	A
Chlordane	ND		ug/kg	14.4	5.72	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-29 Date Collected: 03/01/22 17:30

Client ID: SB005 12-14 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-29
Client ID: SB005 12-14
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/16/22 09:12
Analyst: EJL
Percent Solids: 88%
Methylation Date: 03/15/22 15:34

Extraction Method: EPA 8151A
Extraction Date: 03/14/22 08:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	186	11.7	1	A
2,4,5-T	ND		ug/kg	186	5.78	1	A
2,4,5-TP (Silvex)	ND		ug/kg	186	4.96	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**165**	Q	30-150	A
DCAA	148		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-30
Client ID: SB002 2-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 13:44
Analyst: JAW
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:00
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.82	0.357	1	A
Lindane	ND		ug/kg	0.760	0.340	1	A
Alpha-BHC	ND		ug/kg	0.760	0.216	1	A
Beta-BHC	ND		ug/kg	1.82	0.692	1	A
Heptachlor	ND		ug/kg	0.912	0.409	1	A
Aldrin	ND		ug/kg	1.82	0.642	1	A
Heptachlor epoxide	ND		ug/kg	3.42	1.03	1	A
Endrin	ND		ug/kg	0.760	0.312	1	A
Endrin aldehyde	ND		ug/kg	2.28	0.798	1	A
Endrin ketone	ND		ug/kg	1.82	0.470	1	A
Dieldrin	ND		ug/kg	1.14	0.570	1	A
4,4'-DDE	ND		ug/kg	1.82	0.422	1	A
4,4'-DDD	ND		ug/kg	1.82	0.651	1	A
4,4'-DDT	ND		ug/kg	3.42	1.47	1	A
Endosulfan I	ND		ug/kg	1.82	0.431	1	A
Endosulfan II	ND		ug/kg	1.82	0.610	1	A
Endosulfan sulfate	ND		ug/kg	0.760	0.362	1	A
Methoxychlor	ND		ug/kg	3.42	1.06	1	A
Toxaphene	ND		ug/kg	34.2	9.58	1	A
cis-Chlordane	ND		ug/kg	2.28	0.636	1	A
trans-Chlordane	ND		ug/kg	2.28	0.602	1	A
Chlordane	ND		ug/kg	15.2	6.04	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-30 Date Collected: 03/01/22 15:25

Client ID: SB002 2-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	90		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-30
Client ID: SB002 2-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/16/22 09:31
Analyst: EJL
Percent Solids: 87%
Methylation Date: 03/15/22 15:34

Extraction Method: EPA 8151A
Extraction Date: 03/14/22 08:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	189	11.9	1	A
2,4,5-T	ND		ug/kg	189	5.86	1	A
2,4,5-TP (Silvex)	ND		ug/kg	189	5.03	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	112		30-150	A
DCAA	99		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-31
Client ID: SB009 9-11
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 13:56
Analyst: JAW
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:06
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.78	0.348	1	B
Lindane	ND		ug/kg	0.741	0.331	1	B
Alpha-BHC	ND		ug/kg	0.741	0.210	1	B
Beta-BHC	ND		ug/kg	1.78	0.675	1	B
Heptachlor	ND		ug/kg	0.890	0.399	1	B
Aldrin	ND		ug/kg	1.78	0.626	1	B
Heptachlor epoxide	ND		ug/kg	3.34	1.00	1	B
Endrin	ND		ug/kg	0.741	0.304	1	B
Endrin aldehyde	ND		ug/kg	2.22	0.778	1	B
Endrin ketone	ND		ug/kg	1.78	0.458	1	B
Dieldrin	ND		ug/kg	1.11	0.556	1	B
4,4'-DDE	ND		ug/kg	1.78	0.412	1	B
4,4'-DDD	ND		ug/kg	1.78	0.635	1	B
4,4'-DDT	ND		ug/kg	3.34	1.43	1	B
Endosulfan I	ND		ug/kg	1.78	0.420	1	B
Endosulfan II	ND		ug/kg	1.78	0.595	1	B
Endosulfan sulfate	ND		ug/kg	0.741	0.353	1	B
Methoxychlor	ND		ug/kg	3.34	1.04	1	B
Toxaphene	ND		ug/kg	33.4	9.34	1	B
cis-Chlordane	ND		ug/kg	2.22	0.620	1	B
trans-Chlordane	ND		ug/kg	2.22	0.587	1	B
Chlordane	ND		ug/kg	14.8	5.89	1	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-31 Date Collected: 03/01/22 16:40

Client ID: SB009 9-11 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	33		30-150	A
Decachlorobiphenyl	**28**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	46		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-31
Client ID: SB009 9-11
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/16/22 09:49
Analyst: EJL
Percent Solids: 84%
Methylation Date: 03/15/22 11:57

Extraction Method: EPA 8151A
Extraction Date: 03/14/22 08:20

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	6.04	1	A
2,4,5-TP (Silvex)	ND		ug/kg	195	5.18	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	111		30-150	A
DCAA	99		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-32
Client ID: SB009 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 14:08
Analyst: JAW
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:06
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	0.331	1	A
Lindane	ND		ug/kg	0.705	0.315	1	A
Alpha-BHC	ND		ug/kg	0.705	0.200	1	A
Beta-BHC	ND		ug/kg	1.69	0.641	1	A
Heptachlor	ND		ug/kg	0.846	0.379	1	A
Aldrin	ND		ug/kg	1.69	0.596	1	A
Heptachlor epoxide	ND		ug/kg	3.17	0.951	1	A
Endrin	ND		ug/kg	0.705	0.289	1	A
Endrin aldehyde	ND		ug/kg	2.11	0.740	1	A
Endrin ketone	ND		ug/kg	1.69	0.436	1	A
Dieldrin	ND		ug/kg	1.06	0.528	1	A
4,4'-DDE	ND		ug/kg	1.69	0.391	1	A
4,4'-DDD	ND		ug/kg	1.69	0.603	1	A
4,4'-DDT	ND		ug/kg	3.17	1.36	1	A
Endosulfan I	ND		ug/kg	1.69	0.400	1	A
Endosulfan II	ND		ug/kg	1.69	0.565	1	A
Endosulfan sulfate	ND		ug/kg	0.705	0.335	1	A
Methoxychlor	ND		ug/kg	3.17	0.987	1	A
Toxaphene	ND		ug/kg	31.7	8.88	1	A
cis-Chlordane	ND		ug/kg	2.11	0.589	1	A
trans-Chlordane	ND		ug/kg	2.11	0.558	1	A
Chlordane	ND		ug/kg	14.1	5.60	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-32 Date Collected: 03/01/22 16:30

Client ID: SB009 3-5 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-32
Client ID: SB009 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/16/22 10:07
Analyst: EJL
Percent Solids: 93%
Methylation Date: 03/15/22 15:34

Extraction Method: EPA 8151A
Extraction Date: 03/14/22 08:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	177	11.1	1	A
2,4,5-T	ND		ug/kg	177	5.48	1	A
2,4,5-TP (Silvex)	ND		ug/kg	177	4.70	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	108		30-150	A
DCAA	93		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-37
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 18:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 03/07/22 17:18
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 03/07/22 05:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-37 Date Collected: 03/01/22 18:10

Client ID: EQUIPMENT BLANK Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/07/22 14:54
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 03/06/22 06:51

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 37 Batch: WG1612197-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/07/22 14:54
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 03/06/22 06:51

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 37 Batch: WG1612197-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 03/15/22 11:34
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 07:38

Methylation Date: 03/13/22 19:30

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-18 Batch: WG1614866-1						
2,4-D	ND		ug/kg	165	10.4	A
2,4,5-T	ND		ug/kg	165	5.11	A
2,4,5-TP (Silvex)	ND		ug/kg	165	4.38	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	71		30-150	A
DCAA	77		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 03/15/22 09:59
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 13:00

Methylation Date: 03/13/22 22:40

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 19-27 Batch: WG1614936-1						
2,4-D	ND		ug/kg	165	10.4	A
2,4,5-T	ND		ug/kg	165	5.11	A
2,4,5-TP (Silvex)	ND		ug/kg	165	4.38	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	81		30-150	A
DCAA	70		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/14/22 16:54
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:16
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-19 Batch: WG1614981-1						
Delta-BHC	ND		ug/kg	1.53	0.300	A
Lindane	ND		ug/kg	0.638	0.285	A
Alpha-BHC	ND		ug/kg	0.638	0.181	A
Beta-BHC	ND		ug/kg	1.53	0.581	A
Heptachlor	ND		ug/kg	0.766	0.344	A
Aldrin	ND		ug/kg	1.53	0.540	A
Heptachlor epoxide	ND		ug/kg	2.87	0.862	A
Endrin	ND		ug/kg	0.638	0.262	A
Endrin aldehyde	ND		ug/kg	1.92	0.670	A
Endrin ketone	ND		ug/kg	1.53	0.395	A
Dieldrin	ND		ug/kg	0.958	0.479	A
4,4'-DDE	ND		ug/kg	1.53	0.354	A
4,4'-DDD	ND		ug/kg	1.53	0.547	A
4,4'-DDT	ND		ug/kg	2.87	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.362	A
Endosulfan II	ND		ug/kg	1.53	0.512	A
Endosulfan sulfate	ND		ug/kg	0.638	0.304	A
Methoxychlor	ND		ug/kg	2.87	0.894	A
Toxaphene	ND		ug/kg	28.7	8.04	A
cis-Chlordane	ND		ug/kg	1.92	0.534	A
trans-Chlordane	ND		ug/kg	1.92	0.506	A
Chlordane	ND		ug/kg	12.8	5.08	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/14/22 16:54
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 03/12/22 19:16
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-19 Batch: WG1614981-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/14/22 10:56
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:00
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 20-21,23-32 Batch: WG1615018-1						
Delta-BHC	ND		ug/kg	1.60	0.312	A
Lindane	ND		ug/kg	0.665	0.297	A
Alpha-BHC	ND		ug/kg	0.665	0.189	A
Beta-BHC	ND		ug/kg	1.60	0.605	A
Heptachlor	ND		ug/kg	0.798	0.358	A
Aldrin	ND		ug/kg	1.60	0.562	A
Heptachlor epoxide	ND		ug/kg	2.99	0.898	A
Endrin	ND		ug/kg	0.665	0.273	A
Endrin aldehyde	ND		ug/kg	1.99	0.698	A
Endrin ketone	ND		ug/kg	1.60	0.411	A
Dieldrin	ND		ug/kg	0.997	0.499	A
4,4'-DDE	ND		ug/kg	1.60	0.369	A
4,4'-DDD	ND		ug/kg	1.60	0.569	A
4,4'-DDT	ND		ug/kg	2.99	1.28	A
Endosulfan I	ND		ug/kg	1.60	0.377	A
Endosulfan II	ND		ug/kg	1.60	0.533	A
Endosulfan sulfate	ND		ug/kg	0.665	0.316	A
Methoxychlor	ND		ug/kg	2.99	0.931	A
Toxaphene	ND		ug/kg	29.9	8.38	A
cis-Chlordane	ND		ug/kg	1.99	0.556	A
trans-Chlordane	ND		ug/kg	1.99	0.526	A
Chlordane	ND		ug/kg	13.3	5.28	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/14/22 10:56
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:00
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 20-21,23-32 Batch: WG1615018-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 03/16/22 07:59
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 03/14/22 08:20

Methylation Date: 03/15/22 11:57

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 28-32 Batch: WG1615224-1						
2,4-D	ND		ug/kg	165	10.4	A
2,4,5-T	ND		ug/kg	165	5.11	A
2,4,5-TP (Silvex)	ND		ug/kg	165	4.39	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	107		30-150	A
DCAA	89		30-150	B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/15/22 11:07
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 03/14/22 13:36
Cleanup Method: EPA 3620B
Cleanup Date: 03/15/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 22 Batch: WG1615420-1						
Delta-BHC	ND		ug/kg	1.56	0.305	A
Lindane	ND		ug/kg	0.650	0.290	A
Alpha-BHC	ND		ug/kg	0.650	0.184	A
Beta-BHC	ND		ug/kg	1.56	0.591	A
Heptachlor	ND		ug/kg	0.780	0.350	A
Aldrin	ND		ug/kg	1.56	0.549	A
Heptachlor epoxide	ND		ug/kg	2.92	0.877	A
Endrin	ND		ug/kg	0.650	0.266	A
Endrin aldehyde	ND		ug/kg	1.95	0.682	A
Endrin ketone	ND		ug/kg	1.56	0.402	A
Dieldrin	ND		ug/kg	0.975	0.487	A
4,4'-DDE	ND		ug/kg	1.56	0.361	A
4,4'-DDD	ND		ug/kg	1.56	0.556	A
4,4'-DDT	ND		ug/kg	2.92	1.25	A
Endosulfan I	ND		ug/kg	1.56	0.368	A
Endosulfan II	ND		ug/kg	1.56	0.521	A
Endosulfan sulfate	ND		ug/kg	0.650	0.309	A
Methoxychlor	ND		ug/kg	2.92	0.910	A
Toxaphene	ND		ug/kg	29.2	8.19	A
cis-Chlordane	ND		ug/kg	1.95	0.543	A
trans-Chlordane	ND		ug/kg	1.95	0.515	A
Chlordane	ND		ug/kg	13.0	5.16	A

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/15/22 11:07
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 03/14/22 13:36
Cleanup Method: EPA 3620B
Cleanup Date: 03/15/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 22 Batch: WG1615420-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	101		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 37 Batch: WG1612197-2 WG1612197-3									
Delta-BHC	66		58		30-150	13		20	A
Lindane	72		63		30-150	13		20	A
Alpha-BHC	71		63		30-150	12		20	A
Beta-BHC	76		66		30-150	13		20	A
Heptachlor	78		68		30-150	13		20	A
Aldrin	67		57		30-150	16		20	A
Heptachlor epoxide	74		64		30-150	14		20	A
Endrin	78		67		30-150	16		20	A
Endrin aldehyde	74		63		30-150	16		20	A
Endrin ketone	80		67		30-150	19		20	A
Dieldrin	73		62		30-150	17		20	A
4,4'-DDE	72		61		30-150	17		20	A
4,4'-DDD	75		64		30-150	16		20	A
4,4'-DDT	78		65		30-150	18		20	A
Endosulfan I	74		64		30-150	15		20	A
Endosulfan II	82		69		30-150	16		20	A
Endosulfan sulfate	78		66		30-150	18		20	A
Methoxychlor	83		71		30-150	16		20	A
cis-Chlordane	68		56		30-150	19		20	A
trans-Chlordane	76		64		30-150	17		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 37 Batch: WG1612197-2 WG1612197-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		62		30-150	A
Decachlorobiphenyl	58		60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		78		30-150	B
Decachlorobiphenyl	80		73		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-18 Batch: WG1614866-2 WG1614866-3									
2,4-D	77		84		30-150	9		30	A
2,4,5-T	76		81		30-150	6		30	A
2,4,5-TP (Silvex)	71		78		30-150	9		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	84		81		30-150	A
DCAA	87		92		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 19-27 Batch: WG1614936-2 WG1614936-3									
2,4-D	67		68		30-150	1		30	A
2,4,5-T	71		72		30-150	1		30	A
2,4,5-TP (Silvex)	70		71		30-150	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	83		86		30-150	A
DCAA	80		79		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-19 Batch: WG1614981-2 WG1614981-3									
Delta-BHC	38		34		30-150	11		30	A
Lindane	75		67		30-150	11		30	A
Alpha-BHC	75		66		30-150	13		30	A
Beta-BHC	70		64		30-150	9		30	A
Heptachlor	79		70		30-150	12		30	A
Aldrin	73		65		30-150	12		30	A
Heptachlor epoxide	66		58		30-150	13		30	A
Endrin	74		67		30-150	10		30	A
Endrin aldehyde	45		45		30-150	0		30	A
Endrin ketone	69		66		30-150	4		30	A
Dieldrin	77		70		30-150	10		30	A
4,4'-DDE	70		63		30-150	11		30	A
4,4'-DDD	76		69		30-150	10		30	A
4,4'-DDT	76		70		30-150	8		30	A
Endosulfan I	70		64		30-150	9		30	A
Endosulfan II	71		65		30-150	9		30	A
Endosulfan sulfate	48		46		30-150	4		30	A
Methoxychlor	75		70		30-150	7		30	A
cis-Chlordane	63		57		30-150	10		30	A
trans-Chlordane	74		68		30-150	8		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-19 Batch: WG1614981-2 WG1614981-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		53		30-150	A
Decachlorobiphenyl	68		62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		54		30-150	B
Decachlorobiphenyl	76		68		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 20-21,23-32 Batch: WG1615018-2 WG1615018-3									
Delta-BHC	38		35		30-150	8		30	A
Lindane	81		68		30-150	17		30	A
Alpha-BHC	74		61		30-150	19		30	A
Beta-BHC	84		73		30-150	14		30	A
Heptachlor	96		78		30-150	21		30	A
Aldrin	77		63		30-150	20		30	A
Heptachlor epoxide	65		55		30-150	17		30	A
Endrin	90		75		30-150	18		30	A
Endrin aldehyde	64		49		30-150	27		30	A
Endrin ketone	80		65		30-150	21		30	A
Dieldrin	87		70		30-150	22		30	A
4,4'-DDE	84		69		30-150	20		30	A
4,4'-DDD	86		70		30-150	21		30	A
4,4'-DDT	94		77		30-150	20		30	A
Endosulfan I	84		68		30-150	21		30	A
Endosulfan II	91		74		30-150	21		30	A
Endosulfan sulfate	50		50		30-150	0		30	A
Methoxychlor	76		68		30-150	11		30	A
cis-Chlordane	73		60		30-150	20		30	A
trans-Chlordane	90		73		30-150	21		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 20-21,23-32 Batch: WG1615018-2 WG1615018-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		55		30-150	A
Decachlorobiphenyl	70		53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	95		73		30-150	B
Decachlorobiphenyl	90		73		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 28-32 Batch: WG1615224-2 WG1615224-3									
2,4-D	91		97		30-150	6		30	A
2,4,5-T	95		101		30-150	6		30	A
2,4,5-TP (Silvex)	97		103		30-150	6		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	106		111		30-150	A
DCAA	97		107		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 22 Batch: WG1615420-2 WG1615420-3									
Delta-BHC	50		52		30-150	4		30	A
Lindane	82		86		30-150	5		30	A
Alpha-BHC	79		84		30-150	6		30	A
Beta-BHC	74		79		30-150	7		30	A
Heptachlor	86		93		30-150	8		30	A
Aldrin	80		85		30-150	6		30	A
Heptachlor epoxide	67		73		30-150	9		30	A
Endrin	82		87		30-150	6		30	A
Endrin aldehyde	46		47		30-150	2		30	A
Endrin ketone	67		66		30-150	2		30	A
Dieldrin	85		89		30-150	5		30	A
4,4'-DDE	77		81		30-150	5		30	A
4,4'-DDD	84		90		30-150	7		30	A
4,4'-DDT	87		90		30-150	3		30	A
Endosulfan I	77		81		30-150	5		30	A
Endosulfan II	78		80		30-150	3		30	A
Endosulfan sulfate	42		43		30-150	2		30	A
Methoxychlor	84		87		30-150	4		30	A
cis-Chlordane	69		73		30-150	6		30	A
trans-Chlordane	81		86		30-150	6		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 22 Batch: WG1615420-2 WG1615420-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		66		30-150	A
Decachlorobiphenyl	85		90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		70		30-150	B
Decachlorobiphenyl	97		102		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-18 QC Batch ID: WG1614866-4 WG1614866-5 QC Sample: L2210848-01 Client ID: SB010 0-2													
2,4-D	ND	178	121J	68		151J	85		30-150	22		30	A
2,4,5-T	ND	178	131J	74		151J	85		30-150	14		30	A
2,4,5-TP (Silvex)	ND	178	129J	72		145J	81		30-150	12		30	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
DCAA	85		97		30-150	A
DCAA	91		104		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-18 QC Batch ID: WG1614866-6 WG1614866-7 QC Sample: L2210848-09 Client ID: SB008 0-2													
2,4-D	ND	178	138J	78		131J	73		30-150	5		30	A
2,4,5-T	ND	178	136J	76		141J	78		30-150	4		30	A
2,4,5-TP (Silvex)	ND	178	132J	74		137J	76		30-150	4		30	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
DCAA	79		79		30-150	A
DCAA	88		92		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-19 QC Batch ID: WG1614981-4 WG1614981-5 QC Sample: L2210848-01 Client ID: SB010 0-2													
Delta-BHC	ND	35.6	13.8	39		12.8	38		30-150	8		50	A
Lindane	ND	35.6	27.7	78		26.5	78		30-150	4		50	A
Alpha-BHC	ND	35.6	27.5	77		26.5	78		30-150	4		50	A
Beta-BHC	ND	35.6	25.0	70		22.5	66		30-150	11		50	A
Heptachlor	ND	35.6	31.4	88		29.5	87		30-150	6		50	A
Aldrin	ND	35.6	28.1	79		26.8	79		30-150	5		50	A
Heptachlor epoxide	ND	35.6	25.3	71		24.0	70		30-150	5		50	A
Endrin	ND	35.6	28.0	79		26.6	78		30-150	5		50	A
Endrin aldehyde	ND	35.6	16.4	46		17.9	53		30-150	9		50	A
Endrin ketone	ND	35.6	25.8	73		26.6	78		30-150	3		50	A
Dieldrin	1.98	35.6	34.2	91		31.4	86		30-150	9		50	B
4,4'-DDE	1.29J	35.6	28.6	80		24.9	73		30-150	14		50	A
4,4'-DDD	ND	35.6	27.5	77		25.8	76		30-150	6		50	A
4,4'-DDT	ND	35.6	29.7	84		28.2	83		30-150	5		50	A
Endosulfan I	ND	35.6	26.4	74		25.0	73		30-150	5		50	A
Endosulfan II	ND	35.6	25.3	71		23.9	70		30-150	6		50	A
Endosulfan sulfate	ND	35.6	15.9	45		14.9	44		30-150	6		50	A
Methoxychlor	ND	35.6	26.2	74		26.1	77		30-150	0		50	A
cis-Chlordane	4.54	35.6	32.0	77		26.0	63		30-150	21		50	A
trans-Chlordane	4.14	35.6	34.3	85		28.7	72		30-150	18		50	A

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101 ***Lab Number:*** L2210848

Project Number: TOT2101 ***Report Date:*** 03/28/22

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-19 QC Batch ID: WG1614981-4 WG1614981-5 QC Sample: L2210848-01 Client ID: SB010 0-2												

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*	*Column*
2,4,5,6-Tetrachloro-m-xylene	60		63		30-150	A
Decachlorobiphenyl	65		69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		65		30-150	B
Decachlorobiphenyl	87		111		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-19 QC Batch ID: WG1614981-6 WG1614981-7 QC Sample: L2210848-09 Client ID: SB008 0-2													
Delta-BHC	ND	35.4	12.4	35		13.9	39		30-150	11		50	A
Lindane	ND	35.4	25.4	72		28.1	80		30-150	10		50	A
Alpha-BHC	ND	35.4	24.7	70		28.0	79		30-150	13		50	A
Beta-BHC	ND	35.4	24.3	69		26.3	75		30-150	8		50	A
Heptachlor	ND	35.4	28.2	80		31.6	90		30-150	11		50	A
Aldrin	ND	35.4	25.0	71		28.1	80		30-150	12		50	A
Heptachlor epoxide	ND	35.4	22.4	63		25.5	72		30-150	13		50	A
Endrin	ND	35.4	24.3	69		27.8	79		30-150	13		50	A
Endrin aldehyde	ND	35.4	15.5	44		16.4	46		30-150	6		50	A
Endrin ketone	ND	35.4	18.6	53		23.0	65		30-150	21		50	A
Dieldrin	ND	35.4	28.0	79		29.9	85		30-150	7		50	A
4,4'-DDE	ND	35.4	26.0	74		27.6	78		30-150	6		50	A
4,4'-DDD	ND	35.4	24.2	68		28.2	80		30-150	15		50	A
4,4'-DDT	ND	35.4	25.4	72		28.8	82		30-150	13		50	A
Endosulfan I	ND	35.4	23.8	67		26.8	76		30-150	12		50	A
Endosulfan II	ND	35.4	22.7	64		26.2	74		30-150	14		50	A
Endosulfan sulfate	ND	35.4	13.7	39		17.0	48		30-150	21		50	A
Methoxychlor	ND	35.4	23.0	65		26.7	76		30-150	15		50	A
cis-Chlordane	ND	35.4	21.2	60		24.2	69		30-150	13		50	A
trans-Chlordane	ND	35.4	25.3	72		29.4	83		30-150	15		50	A

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101 ***Lab Number:*** L2210848

Project Number: TOT2101 ***Report Date:*** 03/28/22

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-19 QC Batch ID: WG1614981-6 WG1614981-7 QC Sample: L2210848-09 Client ID: SB008 0-2

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*	*Column*
2,4,5,6-Tetrachloro-m-xylene	55		66		30-150	A
Decachlorobiphenyl	49		65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		68		30-150	B
Decachlorobiphenyl	66		75		30-150	B

METALS

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-01 Date Collected: 03/01/22 12:20

Client ID: SB010 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4170		mg/kg	8.53	2.30	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.26	0.324	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
Arsenic, Total	4.03		mg/kg	0.853	0.177	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
Barium, Total	37.8		mg/kg	0.853	0.148	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
Beryllium, Total	0.282	J	mg/kg	0.426	0.028	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
Cadmium, Total	0.162	J	mg/kg	0.853	0.084	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
Calcium, Total	38300		mg/kg	8.53	2.98	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
Chromium, Total	10.8		mg/kg	0.853	0.082	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
Cobalt, Total	3.97		mg/kg	1.71	0.142	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
Copper, Total	16.4		mg/kg	0.853	0.220	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
Iron, Total	9470		mg/kg	4.26	0.770	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
Lead, Total	58.2		mg/kg	4.26	0.229	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
Magnesium, Total	16900		mg/kg	8.53	1.31	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
Manganese, Total	219		mg/kg	0.853	0.136	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
Mercury, Total	0.168		mg/kg	0.079	0.052	1	03/11/22 22:00	03/18/22 00:45	EPA 7471B	1,7471B	ZK
Nickel, Total	11.2		mg/kg	2.13	0.206	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
Potassium, Total	725		mg/kg	213	12.3	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
Selenium, Total	0.503	J	mg/kg	1.71	0.220	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.853	0.241	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
Sodium, Total	230		mg/kg	171	2.69	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.71	0.269	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
Vanadium, Total	16.2		mg/kg	0.853	0.173	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
Zinc, Total	52.6		mg/kg	4.26	0.250	2	03/11/22 21:35	03/24/22 21:04	EPA 3050B	1,6010D	EW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	11	J	mg/kg	0.87	0.87	1		03/24/22 21:04	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-02 Date Collected: 03/01/22 15:10

Client ID: SB008 12-14 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

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	9.04	2.44	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.52	0.344	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
Arsenic, Total	2.39		mg/kg	0.904	0.188	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
Barium, Total	10.7		mg/kg	0.904	0.157	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
Beryllium, Total	0.244	J	mg/kg	0.452	0.030	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.904	0.089	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
Calcium, Total	266		mg/kg	9.04	3.16	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
Chromium, Total	7.88		mg/kg	0.904	0.087	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
Cobalt, Total	6.31		mg/kg	1.81	0.150	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
Copper, Total	7.24		mg/kg	0.904	0.233	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
Iron, Total	10400		mg/kg	4.52	0.817	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
Lead, Total	6.10		mg/kg	4.52	0.242	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
Magnesium, Total	1700		mg/kg	9.04	1.39	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
Manganese, Total	110		mg/kg	0.904	0.144	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
Mercury, Total	ND		mg/kg	0.072	0.047	1	03/11/22 22:00	03/17/22 23:26	EPA 7471B	1,7471B	ZK
Nickel, Total	9.47		mg/kg	2.26	0.219	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
Potassium, Total	304		mg/kg	226	13.0	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.81	0.233	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.904	0.256	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
Sodium, Total	137	J	mg/kg	181	2.85	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.81	0.285	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
Vanadium, Total	10.2		mg/kg	0.904	0.184	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
Zinc, Total	23.5		mg/kg	4.52	0.265	2	03/11/22 21:35	03/24/22 21:41	EPA 3050B	1,6010D	EW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.9		mg/kg	0.91	0.91	1		03/24/22 21:41	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-03 Date Collected: 03/01/22 13:25

Client ID: SB006 4-6 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6150		mg/kg	8.35	2.25	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.17	0.317	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
Arsenic, Total	2.06		mg/kg	0.835	0.174	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
Barium, Total	26.3		mg/kg	0.835	0.145	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
Beryllium, Total	0.426		mg/kg	0.417	0.028	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.835	0.082	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
Calcium, Total	599		mg/kg	8.35	2.92	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
Chromium, Total	9.97		mg/kg	0.835	0.080	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
Cobalt, Total	6.74		mg/kg	1.67	0.138	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
Copper, Total	10.0		mg/kg	0.835	0.215	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
Iron, Total	10600		mg/kg	4.17	0.754	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
Lead, Total	6.54		mg/kg	4.17	0.224	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
Magnesium, Total	1740		mg/kg	8.35	1.28	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
Manganese, Total	126		mg/kg	0.835	0.133	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
Mercury, Total	ND		mg/kg	0.074	0.048	1	03/11/22 22:00	03/17/22 23:29	EPA 7471B	1,7471B	ZK
Nickel, Total	9.55		mg/kg	2.09	0.202	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
Potassium, Total	528		mg/kg	209	12.0	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.67	0.215	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.835	0.236	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
Sodium, Total	73.1	J	mg/kg	167	2.63	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.67	0.263	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
Vanadium, Total	16.6		mg/kg	0.835	0.169	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
Zinc, Total	22.4		mg/kg	4.17	0.245	2	03/11/22 21:35	03/24/22 21:46	EPA 3050B	1,6010D	EW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	10		mg/kg	0.87	0.87	1		03/24/22 21:46	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-04 Date Collected: 03/01/22 13:15

Client ID: SB006 3-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5340		mg/kg	8.40	2.27	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.20	0.319	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
Arsenic, Total	2.70		mg/kg	0.840	0.175	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
Barium, Total	21.8		mg/kg	0.840	0.146	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
Beryllium, Total	0.344	J	mg/kg	0.420	0.028	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.840	0.082	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
Calcium, Total	1520		mg/kg	8.40	2.94	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
Chromium, Total	9.36		mg/kg	0.840	0.081	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
Cobalt, Total	5.02		mg/kg	1.68	0.139	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
Copper, Total	7.83		mg/kg	0.840	0.217	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
Iron, Total	10100		mg/kg	4.20	0.759	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
Lead, Total	11.9		mg/kg	4.20	0.225	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
Magnesium, Total	1630		mg/kg	8.40	1.29	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
Manganese, Total	148		mg/kg	0.840	0.134	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
Mercury, Total	ND		mg/kg	0.073	0.047	1	03/11/22 22:00	03/17/22 23:32	EPA 7471B	1,7471B	ZK
Nickel, Total	9.72		mg/kg	2.10	0.203	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
Potassium, Total	447		mg/kg	210	12.1	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.68	0.217	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.840	0.238	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
Sodium, Total	63.2	J	mg/kg	168	2.65	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.68	0.265	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
Vanadium, Total	14.6		mg/kg	0.840	0.170	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
Zinc, Total	26.8		mg/kg	4.20	0.246	2	03/11/22 21:35	03/24/22 22:36	EPA 3050B	1,6010D	EW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	9.4		mg/kg	0.88	0.88	1		03/24/22 22:36	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-05 Date Collected: 03/01/22 13:55

Client ID: SB007 3-5 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4360		mg/kg	8.66	2.34	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.33	0.329	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
Arsenic, Total	2.98		mg/kg	0.866	0.180	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
Barium, Total	19.9		mg/kg	0.866	0.151	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
Beryllium, Total	0.294	J	mg/kg	0.433	0.029	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.866	0.085	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
Calcium, Total	474		mg/kg	8.66	3.03	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
Chromium, Total	7.34		mg/kg	0.866	0.083	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
Cobalt, Total	4.30		mg/kg	1.73	0.144	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
Copper, Total	6.18		mg/kg	0.866	0.223	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
Iron, Total	10500		mg/kg	4.33	0.782	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
Lead, Total	7.68		mg/kg	4.33	0.232	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
Magnesium, Total	1480		mg/kg	8.66	1.33	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
Manganese, Total	179		mg/kg	0.866	0.138	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
Mercury, Total	ND		mg/kg	0.074	0.049	1	03/11/22 22:00	03/17/22 23:36	EPA 7471B	1,7471B	ZK
Nickel, Total	8.84		mg/kg	2.16	0.210	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
Potassium, Total	296		mg/kg	216	12.5	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.73	0.223	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.866	0.245	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
Sodium, Total	80.4	J	mg/kg	173	2.73	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.73	0.273	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
Vanadium, Total	11.4		mg/kg	0.866	0.176	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
Zinc, Total	22.6		mg/kg	4.33	0.254	2	03/11/22 21:35	03/24/22 22:41	EPA 3050B	1,6010D	EW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.2	J	mg/kg	0.91	0.91	1		03/24/22 22:41	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-06 Date Collected: 03/01/22 14:00

Client ID: SB007 7-9 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6040		mg/kg	8.94	2.41	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.47	0.340	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
Arsenic, Total	2.50		mg/kg	0.894	0.186	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
Barium, Total	22.8		mg/kg	0.894	0.156	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
Beryllium, Total	0.331	J	mg/kg	0.447	0.030	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.894	0.088	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
Calcium, Total	517		mg/kg	8.94	3.13	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
Chromium, Total	9.57		mg/kg	0.894	0.086	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
Cobalt, Total	4.62		mg/kg	1.79	0.148	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
Copper, Total	5.72		mg/kg	0.894	0.231	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
Iron, Total	12600		mg/kg	4.47	0.808	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
Lead, Total	8.79		mg/kg	4.47	0.240	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
Magnesium, Total	1590		mg/kg	8.94	1.38	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
Manganese, Total	224		mg/kg	0.894	0.142	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
Mercury, Total	ND		mg/kg	0.079	0.051	1	03/11/22 22:00	03/17/22 23:39	EPA 7471B	1,7471B	ZK
Nickel, Total	8.33		mg/kg	2.24	0.216	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
Potassium, Total	350		mg/kg	224	12.9	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.79	0.231	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.894	0.253	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
Sodium, Total	84.2	J	mg/kg	179	2.82	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.79	0.282	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
Vanadium, Total	14.7		mg/kg	0.894	0.182	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
Zinc, Total	25.1		mg/kg	4.47	0.262	2	03/11/22 21:35	03/24/22 22:45	EPA 3050B	1,6010D	EW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	9.6		mg/kg	0.94	0.94	1		03/24/22 22:45	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-07 Date Collected: 03/01/22 14:05

Client ID: SB007 18-20 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3030		mg/kg	8.70	2.35	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.35	0.330	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
Arsenic, Total	2.92		mg/kg	0.870	0.181	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
Barium, Total	25.9		mg/kg	0.870	0.151	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
Beryllium, Total	0.217	J	mg/kg	0.435	0.029	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.870	0.085	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
Calcium, Total	518		mg/kg	8.70	3.04	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
Chromium, Total	7.21		mg/kg	0.870	0.084	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
Cobalt, Total	4.26		mg/kg	1.74	0.144	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
Copper, Total	6.37		mg/kg	0.870	0.224	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
Iron, Total	9270		mg/kg	4.35	0.785	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
Lead, Total	5.48		mg/kg	4.35	0.233	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
Magnesium, Total	1370		mg/kg	8.70	1.34	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
Manganese, Total	327		mg/kg	0.870	0.138	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
Mercury, Total	ND		mg/kg	0.070	0.045	1	03/11/22 22:00	03/17/22 23:42	EPA 7471B	1,7471B	ZK
Nickel, Total	9.69		mg/kg	2.17	0.210	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
Potassium, Total	270		mg/kg	217	12.5	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.74	0.224	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.870	0.246	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
Sodium, Total	32.6	J	mg/kg	174	2.74	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.74	0.274	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
Vanadium, Total	8.80		mg/kg	0.870	0.176	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
Zinc, Total	22.4		mg/kg	4.35	0.255	2	03/11/22 21:35	03/24/22 22:50	EPA 3050B	1,6010D	EW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.2		mg/kg	0.89	0.89	1		03/24/22 22:50	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-08 Date Collected: 03/01/22 00:00

Client ID: DUP001 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4460		mg/kg	8.96	2.42	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.48	0.340	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
Arsenic, Total	2.72		mg/kg	0.896	0.186	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
Barium, Total	20.1		mg/kg	0.896	0.156	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
Beryllium, Total	0.304	J	mg/kg	0.448	0.030	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.896	0.088	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
Calcium, Total	677		mg/kg	8.96	3.13	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
Chromium, Total	8.37		mg/kg	0.896	0.086	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
Cobalt, Total	4.44		mg/kg	1.79	0.149	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
Copper, Total	7.04		mg/kg	0.896	0.231	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
Iron, Total	11300		mg/kg	4.48	0.809	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
Lead, Total	7.04		mg/kg	4.48	0.240	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
Magnesium, Total	1740		mg/kg	8.96	1.38	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
Manganese, Total	181		mg/kg	0.896	0.142	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
Mercury, Total	ND		mg/kg	0.084	0.055	1	03/11/22 22:00	03/17/22 23:45	EPA 7471B	1,7471B	ZK
Nickel, Total	9.14		mg/kg	2.24	0.217	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
Potassium, Total	446		mg/kg	224	12.9	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.79	0.231	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.896	0.253	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
Sodium, Total	84.4	J	mg/kg	179	2.82	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.79	0.282	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
Vanadium, Total	13.2		mg/kg	0.896	0.182	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
Zinc, Total	24.5		mg/kg	4.48	0.262	2	03/11/22 21:35	03/24/22 22:54	EPA 3050B	1,6010D	EW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	8.4		mg/kg	0.94	0.94	1		03/24/22 22:54	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-09 Date Collected: 03/01/22 15:10

Client ID: SB008 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4200		mg/kg	8.20	2.21	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.10	0.312	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
Arsenic, Total	2.34		mg/kg	0.820	0.170	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
Barium, Total	25.9		mg/kg	0.820	0.143	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
Beryllium, Total	0.287	J	mg/kg	0.410	0.027	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
Cadmium, Total	0.098	J	mg/kg	0.820	0.080	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
Calcium, Total	11000		mg/kg	8.20	2.87	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
Chromium, Total	8.77		mg/kg	0.820	0.079	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
Cobalt, Total	4.00		mg/kg	1.64	0.136	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
Copper, Total	10.1		mg/kg	0.820	0.212	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
Iron, Total	8660		mg/kg	4.10	0.740	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
Lead, Total	17.3		mg/kg	4.10	0.220	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
Magnesium, Total	5220		mg/kg	8.20	1.26	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
Manganese, Total	158		mg/kg	0.820	0.130	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
Mercury, Total	0.066	J	mg/kg	0.072	0.047	1	03/11/22 22:00	03/18/22 00:58	EPA 7471B	1,7471B	ZK
Nickel, Total	9.40		mg/kg	2.05	0.198	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
Potassium, Total	690		mg/kg	205	11.8	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.64	0.212	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.820	0.232	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
Sodium, Total	135	J	mg/kg	164	2.58	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.64	0.258	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
Vanadium, Total	15.0		mg/kg	0.820	0.166	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
Zinc, Total	44.3		mg/kg	4.10	0.240	2	03/11/22 21:35	03/24/22 21:50	EPA 3050B	1,6010D	EW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	8.8		mg/kg	0.87	0.87	1		03/24/22 21:50	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-10 Date Collected: 03/01/22 15:05

Client ID: SB008 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4910		mg/kg	9.26	2.50	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.63	0.352	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
Arsenic, Total	2.88		mg/kg	0.926	0.193	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
Barium, Total	24.1		mg/kg	0.926	0.161	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
Beryllium, Total	0.315	J	mg/kg	0.463	0.031	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.926	0.091	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
Calcium, Total	522		mg/kg	9.26	3.24	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
Chromium, Total	8.43		mg/kg	0.926	0.089	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
Cobalt, Total	4.59		mg/kg	1.85	0.154	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
Copper, Total	7.31		mg/kg	0.926	0.239	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
Iron, Total	10800		mg/kg	4.63	0.837	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
Lead, Total	10.3		mg/kg	4.63	0.248	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
Magnesium, Total	1730		mg/kg	9.26	1.43	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
Manganese, Total	143		mg/kg	0.926	0.147	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
Mercury, Total	ND		mg/kg	0.079	0.051	1	03/11/22 22:00	03/17/22 23:49	EPA 7471B	1,7471B	ZK
Nickel, Total	9.26		mg/kg	2.32	0.224	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
Potassium, Total	321		mg/kg	232	13.3	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.85	0.239	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.926	0.262	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
Sodium, Total	169	J	mg/kg	185	2.92	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.85	0.292	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
Vanadium, Total	13.5		mg/kg	0.926	0.188	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
Zinc, Total	24.5		mg/kg	4.63	0.271	2	03/11/22 21:35	03/24/22 22:59	EPA 3050B	1,6010D	EW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	8.4		mg/kg	0.93	0.93	1		03/24/22 22:59	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-11 Date Collected: 03/01/22 00:00

Client ID: DUP002 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5130		mg/kg	8.85	2.39	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.43	0.336	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
Arsenic, Total	1.46		mg/kg	0.885	0.184	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
Barium, Total	37.4		mg/kg	0.885	0.154	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
Beryllium, Total	0.328	J	mg/kg	0.443	0.029	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.885	0.087	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
Calcium, Total	8600		mg/kg	8.85	3.10	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
Chromium, Total	13.4		mg/kg	0.885	0.085	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
Cobalt, Total	4.96		mg/kg	1.77	0.147	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
Copper, Total	13.0		mg/kg	0.885	0.228	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
Iron, Total	13400		mg/kg	4.43	0.799	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
Lead, Total	33.4		mg/kg	4.43	0.237	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
Magnesium, Total	2300		mg/kg	8.85	1.36	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
Manganese, Total	236		mg/kg	0.885	0.141	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
Mercury, Total	0.135		mg/kg	0.074	0.049	1	03/11/22 22:00	03/17/22 23:59	EPA 7471B	1,7471B	ZK
Nickel, Total	9.25		mg/kg	2.21	0.214	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
Potassium, Total	908		mg/kg	221	12.7	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.77	0.228	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.885	0.250	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
Sodium, Total	171	J	mg/kg	177	2.79	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.77	0.279	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
Vanadium, Total	19.5		mg/kg	0.885	0.180	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
Zinc, Total	47.9		mg/kg	4.43	0.259	2	03/11/22 21:35	03/24/22 23:03	EPA 3050B	1,6010D	EW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	13	J	mg/kg	0.90	0.90	1		03/24/22 23:03	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-12 Date Collected: 03/01/22 15:15

Client ID: SB008 2-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5960		mg/kg	9.00	2.43	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.50	0.342	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
Arsenic, Total	2.94		mg/kg	0.900	0.187	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
Barium, Total	22.6		mg/kg	0.900	0.156	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
Beryllium, Total	0.333	J	mg/kg	0.450	0.030	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.900	0.088	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
Calcium, Total	592		mg/kg	9.00	3.15	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
Chromium, Total	10.4		mg/kg	0.900	0.086	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
Cobalt, Total	4.75		mg/kg	1.80	0.149	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
Copper, Total	6.11		mg/kg	0.900	0.232	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
Iron, Total	13200		mg/kg	4.50	0.812	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
Lead, Total	10.0		mg/kg	4.50	0.241	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
Magnesium, Total	1790		mg/kg	9.00	1.38	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
Manganese, Total	246		mg/kg	0.900	0.143	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
Mercury, Total	ND		mg/kg	0.072	0.047	1	03/11/22 22:00	03/18/22 00:02	EPA 7471B	1,7471B	ZK
Nickel, Total	8.99		mg/kg	2.25	0.218	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
Potassium, Total	347		mg/kg	225	13.0	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.80	0.232	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.900	0.254	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
Sodium, Total	183		mg/kg	180	2.83	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.80	0.283	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
Vanadium, Total	15.7		mg/kg	0.900	0.183	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
Zinc, Total	23.2		mg/kg	4.50	0.264	2	03/11/22 21:35	03/24/22 23:08	EPA 3050B	1,6010D	EW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	10		mg/kg	0.91	0.91	1		03/24/22 23:08	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-13 Date Collected: 03/01/22 17:20

Client ID: SB005 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5200		mg/kg	8.88	2.40	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.44	0.338	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
Arsenic, Total	1.43		mg/kg	0.888	0.185	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
Barium, Total	35.6		mg/kg	0.888	0.154	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
Beryllium, Total	0.329	J	mg/kg	0.444	0.029	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.888	0.087	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
Calcium, Total	4940		mg/kg	8.88	3.11	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
Chromium, Total	13.6		mg/kg	0.888	0.085	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
Cobalt, Total	5.22		mg/kg	1.78	0.147	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
Copper, Total	11.7		mg/kg	0.888	0.229	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
Iron, Total	13500		mg/kg	4.44	0.802	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
Lead, Total	28.6		mg/kg	4.44	0.238	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
Magnesium, Total	2160		mg/kg	8.88	1.37	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
Manganese, Total	241		mg/kg	0.888	0.141	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
Mercury, Total	0.075	J	mg/kg	0.078	0.051	1	03/11/22 22:00	03/18/22 00:05	EPA 7471B	1,7471B	ZK
Nickel, Total	9.29		mg/kg	2.22	0.215	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
Potassium, Total	802		mg/kg	222	12.8	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.78	0.229	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.888	0.251	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
Sodium, Total	152	J	mg/kg	178	2.80	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.78	0.280	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
Vanadium, Total	21.0		mg/kg	0.888	0.180	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
Zinc, Total	47.8		mg/kg	4.44	0.260	2	03/11/22 21:35	03/24/22 23:31	EPA 3050B	1,6010D	EW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	13	J	mg/kg	0.90	0.90	1		03/24/22 23:31	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-14 Date Collected: 03/01/22 16:05

Client ID: SB001 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3400		mg/kg	8.41	2.27	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.20	0.320	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
Arsenic, Total	1.36		mg/kg	0.841	0.175	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
Barium, Total	36.5		mg/kg	0.841	0.146	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
Beryllium, Total	0.151	J	mg/kg	0.420	0.028	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
Cadmium, Total	0.236	J	mg/kg	0.841	0.082	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
Calcium, Total	32300		mg/kg	8.41	2.94	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
Chromium, Total	10.2		mg/kg	0.841	0.081	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
Cobalt, Total	2.18		mg/kg	1.68	0.140	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
Copper, Total	16.8		mg/kg	0.841	0.217	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
Iron, Total	5090		mg/kg	4.20	0.760	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
Lead, Total	35.6		mg/kg	4.20	0.225	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
Magnesium, Total	2760		mg/kg	8.41	1.30	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
Manganese, Total	101		mg/kg	0.841	0.134	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
Mercury, Total	0.077		mg/kg	0.076	0.050	1	03/11/22 22:00	03/18/22 00:09	EPA 7471B	1,7471B	ZK
Nickel, Total	6.71		mg/kg	2.10	0.204	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
Potassium, Total	661		mg/kg	210	12.1	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
Selenium, Total	0.303	J	mg/kg	1.68	0.217	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.841	0.238	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
Sodium, Total	200		mg/kg	168	2.65	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.68	0.265	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
Vanadium, Total	10.6		mg/kg	0.841	0.171	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
Zinc, Total	54.5		mg/kg	4.20	0.246	2	03/11/22 21:35	03/24/22 23:35	EPA 3050B	1,6010D	EW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	10	J	mg/kg	0.85	0.85	1		03/24/22 23:35	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-15 Date Collected: 03/01/22 16:10

Client ID: SB001 4-6 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5690		mg/kg	8.68	2.34	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.34	0.330	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
Arsenic, Total	5.04		mg/kg	0.868	0.180	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
Barium, Total	133		mg/kg	0.868	0.151	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
Beryllium, Total	0.304	J	mg/kg	0.434	0.029	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
Cadmium, Total	0.408	J	mg/kg	0.868	0.085	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
Calcium, Total	25700		mg/kg	8.68	3.04	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
Chromium, Total	16.4		mg/kg	0.868	0.083	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
Cobalt, Total	4.40		mg/kg	1.74	0.144	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
Copper, Total	38.2		mg/kg	0.868	0.224	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
Iron, Total	12700		mg/kg	4.34	0.784	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
Lead, Total	307		mg/kg	4.34	0.233	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
Magnesium, Total	2350		mg/kg	8.68	1.34	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
Manganese, Total	228		mg/kg	0.868	0.138	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
Mercury, Total	0.773		mg/kg	0.071	0.047	1	03/11/22 22:00	03/18/22 00:12	EPA 7471B	1,7471B	ZK
Nickel, Total	10.9		mg/kg	2.17	0.210	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
Potassium, Total	569		mg/kg	217	12.5	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
Selenium, Total	0.321	J	mg/kg	1.74	0.224	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.868	0.246	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
Sodium, Total	165	J	mg/kg	174	2.73	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.74	0.273	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
Vanadium, Total	16.5		mg/kg	0.868	0.176	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
Zinc, Total	203		mg/kg	4.34	0.254	2	03/11/22 21:35	03/24/22 23:40	EPA 3050B	1,6010D	EW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	16		mg/kg	0.89	0.89	1		03/24/22 23:40	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-16 Date Collected: 03/01/22 17:25

Client ID: SB005 8-10 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3060		mg/kg	8.43	2.28	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.21	0.320	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
Arsenic, Total	3.22		mg/kg	0.843	0.175	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
Barium, Total	26.3		mg/kg	0.843	0.147	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
Beryllium, Total	0.202	J	mg/kg	0.421	0.028	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
Cadmium, Total	0.556	J	mg/kg	0.843	0.083	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
Calcium, Total	46500		mg/kg	8.43	2.95	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
Chromium, Total	7.10		mg/kg	0.843	0.081	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
Cobalt, Total	2.66		mg/kg	1.68	0.140	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
Copper, Total	10.6		mg/kg	0.843	0.217	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
Iron, Total	7080		mg/kg	4.21	0.761	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
Lead, Total	56.2		mg/kg	4.21	0.226	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
Magnesium, Total	22200		mg/kg	8.43	1.30	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
Manganese, Total	123		mg/kg	0.843	0.134	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
Mercury, Total	0.114		mg/kg	0.073	0.048	1	03/11/22 22:00	03/18/22 00:15	EPA 7471B	1,7471B	ZK
Nickel, Total	7.06		mg/kg	2.11	0.204	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
Potassium, Total	424		mg/kg	211	12.1	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.68	0.217	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.843	0.238	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
Sodium, Total	140	J	mg/kg	168	2.66	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.68	0.266	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
Vanadium, Total	11.5		mg/kg	0.843	0.171	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
Zinc, Total	59.3		mg/kg	4.21	0.247	2	03/11/22 21:35	03/24/22 23:44	EPA 3050B	1,6010D	EW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.1		mg/kg	0.90	0.90	1		03/24/22 23:44	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-17 Date Collected: 03/01/22 15:45

Client ID: SB002 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6580		mg/kg	8.88	2.40	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.44	0.337	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
Arsenic, Total	3.00		mg/kg	0.888	0.185	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
Barium, Total	20.0		mg/kg	0.888	0.154	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
Beryllium, Total	0.293	J	mg/kg	0.444	0.029	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.888	0.087	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
Calcium, Total	518		mg/kg	8.88	3.11	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
Chromium, Total	11.6		mg/kg	0.888	0.085	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
Cobalt, Total	3.21		mg/kg	1.78	0.147	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
Copper, Total	8.41		mg/kg	0.888	0.229	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
Iron, Total	9110		mg/kg	4.44	0.802	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
Lead, Total	7.94		mg/kg	4.44	0.238	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
Magnesium, Total	1790		mg/kg	8.88	1.37	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
Manganese, Total	65.8		mg/kg	0.888	0.141	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
Mercury, Total	ND		mg/kg	0.081	0.053	1	03/11/22 22:00	03/18/22 00:18	EPA 7471B	1,7471B	ZK
Nickel, Total	8.84		mg/kg	2.22	0.215	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
Potassium, Total	419		mg/kg	222	12.8	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.78	0.229	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.888	0.251	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
Sodium, Total	55.2	J	mg/kg	178	2.80	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.78	0.280	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
Vanadium, Total	22.7		mg/kg	0.888	0.180	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
Zinc, Total	44.8		mg/kg	4.44	0.260	2	03/11/22 21:35	03/24/22 23:49	EPA 3050B	1,6010D	EW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12		mg/kg	0.93	0.93	1		03/24/22 23:49	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-18 Date Collected: 03/01/22 17:05

Client ID: SB004 2-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5810		mg/kg	8.82	2.38	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.41	0.335	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
Arsenic, Total	2.39		mg/kg	0.882	0.183	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
Barium, Total	38.2		mg/kg	0.882	0.153	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
Beryllium, Total	0.397	J	mg/kg	0.441	0.029	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.882	0.086	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
Calcium, Total	3130		mg/kg	8.82	3.09	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
Chromium, Total	9.75		mg/kg	0.882	0.085	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
Cobalt, Total	4.71		mg/kg	1.76	0.146	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
Copper, Total	8.12		mg/kg	0.882	0.228	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
Iron, Total	11000		mg/kg	4.41	0.796	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
Lead, Total	16.5		mg/kg	4.41	0.236	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
Magnesium, Total	2110		mg/kg	8.82	1.36	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
Manganese, Total	217		mg/kg	0.882	0.140	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
Mercury, Total	ND		mg/kg	0.082	0.053	1	03/11/22 22:00	03/18/22 00:22	EPA 7471B	1,7471B	ZK
Nickel, Total	11.0		mg/kg	2.20	0.213	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
Potassium, Total	962		mg/kg	220	12.7	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.76	0.228	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.882	0.250	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
Sodium, Total	166	J	mg/kg	176	2.78	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.76	0.278	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
Vanadium, Total	15.9		mg/kg	0.882	0.179	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
Zinc, Total	33.4		mg/kg	4.41	0.258	2	03/11/22 21:35	03/24/22 23:54	EPA 3050B	1,6010D	EW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	6.0		mg/kg	0.92	0.92	1		03/24/22 23:54	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-19 Date Collected: 03/01/22 16:05

Client ID: SB002 18-20 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3660		mg/kg	8.27	2.23	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.13	0.314	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
Arsenic, Total	1.36		mg/kg	0.827	0.172	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
Barium, Total	30.7		mg/kg	0.827	0.144	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
Beryllium, Total	0.331	J	mg/kg	0.413	0.027	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.827	0.081	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
Calcium, Total	1000		mg/kg	8.27	2.89	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
Chromium, Total	10.4		mg/kg	0.827	0.079	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
Cobalt, Total	4.22		mg/kg	1.65	0.137	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
Copper, Total	8.38		mg/kg	0.827	0.213	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
Iron, Total	8980		mg/kg	4.13	0.746	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
Lead, Total	9.10		mg/kg	4.13	0.222	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
Magnesium, Total	2320		mg/kg	8.27	1.27	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
Manganese, Total	214		mg/kg	0.827	0.131	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
Mercury, Total	ND		mg/kg	0.077	0.050	1	03/11/22 22:00	03/18/22 00:25	EPA 7471B	1,7471B	ZK
Nickel, Total	12.6		mg/kg	2.07	0.200	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
Potassium, Total	914		mg/kg	207	11.9	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.65	0.213	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.827	0.234	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
Sodium, Total	78.9	J	mg/kg	165	2.60	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.65	0.260	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
Vanadium, Total	14.9		mg/kg	0.827	0.168	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
Zinc, Total	28.6		mg/kg	4.13	0.242	2	03/11/22 21:35	03/24/22 23:58	EPA 3050B	1,6010D	EW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	10		mg/kg	0.87	0.87	1		03/24/22 23:58	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-20 Date Collected: 03/01/22 12:30

Client ID: SB003 15-17 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4440		mg/kg	8.18	2.21	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.09	0.311	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
Arsenic, Total	1.31		mg/kg	0.818	0.170	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
Barium, Total	38.6		mg/kg	0.818	0.142	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
Beryllium, Total	0.270	J	mg/kg	0.409	0.027	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.818	0.080	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
Calcium, Total	870		mg/kg	8.18	2.86	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
Chromium, Total	12.6		mg/kg	0.818	0.079	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
Cobalt, Total	4.93		mg/kg	1.64	0.136	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
Copper, Total	15.9		mg/kg	0.818	0.211	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
Iron, Total	9860		mg/kg	4.09	0.738	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
Lead, Total	6.55		mg/kg	4.09	0.219	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
Magnesium, Total	2130		mg/kg	8.18	1.26	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
Manganese, Total	180		mg/kg	0.818	0.130	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
Mercury, Total	ND		mg/kg	0.076	0.049	1	03/11/22 22:00	03/18/22 00:28	EPA 7471B	1,7471B	ZK
Nickel, Total	11.4		mg/kg	2.04	0.198	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
Potassium, Total	1170		mg/kg	204	11.8	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.64	0.211	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.818	0.231	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
Sodium, Total	68.8	J	mg/kg	164	2.58	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.64	0.258	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
Vanadium, Total	18.4		mg/kg	0.818	0.166	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
Zinc, Total	29.3		mg/kg	4.09	0.240	2	03/11/22 21:35	03/25/22 00:03	EPA 3050B	1,6010D	EW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12	J	mg/kg	0.83	0.83	1		03/25/22 00:03	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-21 Date Collected: 03/01/22 10:40

Client ID: SB011 0-2 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7780		mg/kg	8.90	2.40	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
Antimony, Total	ND		mg/kg	4.45	0.338	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
Arsenic, Total	5.11		mg/kg	0.890	0.185	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
Barium, Total	51.5		mg/kg	0.890	0.155	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
Beryllium, Total	0.320	J	mg/kg	0.445	0.029	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
Cadmium, Total	0.302	J	mg/kg	0.890	0.087	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
Calcium, Total	6220		mg/kg	8.90	3.11	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
Chromium, Total	11.8		mg/kg	0.890	0.085	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
Cobalt, Total	5.48		mg/kg	1.78	0.148	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
Copper, Total	15.0		mg/kg	0.890	0.230	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
Iron, Total	13200		mg/kg	4.45	0.803	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
Lead, Total	73.8		mg/kg	4.45	0.238	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
Magnesium, Total	3120		mg/kg	8.90	1.37	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
Manganese, Total	231		mg/kg	0.890	0.141	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
Mercury, Total	0.087		mg/kg	0.081	0.053	1	03/11/22 20:50	03/17/22 19:57	EPA 7471B	1,7471B	ZK
Nickel, Total	13.3		mg/kg	2.22	0.215	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
Potassium, Total	439		mg/kg	222	12.8	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
Selenium, Total	ND		mg/kg	1.78	0.230	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.890	0.252	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
Sodium, Total	167	J	mg/kg	178	2.80	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.78	0.280	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
Vanadium, Total	19.9		mg/kg	0.890	0.181	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
Zinc, Total	65.3		mg/kg	4.45	0.261	2	03/11/22 20:16	03/25/22 16:12	EPA 3050B	1,6010D	MC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12		mg/kg	0.91	0.91	1		03/25/22 16:12	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-22 Date Collected: 03/01/22 11:05

Client ID: SB003 3-5 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5490		mg/kg	9.02	2.44	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
Antimony, Total	1.12	J	mg/kg	4.51	0.343	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
Arsenic, Total	6.64		mg/kg	0.902	0.188	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
Barium, Total	194		mg/kg	0.902	0.157	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
Beryllium, Total	0.361	J	mg/kg	0.451	0.030	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
Cadmium, Total	1.22		mg/kg	0.902	0.088	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
Calcium, Total	4730		mg/kg	9.02	3.16	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
Chromium, Total	13.2		mg/kg	0.902	0.087	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
Cobalt, Total	5.15		mg/kg	1.80	0.150	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
Copper, Total	149		mg/kg	0.902	0.233	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
Iron, Total	15000		mg/kg	4.51	0.815	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
Lead, Total	568		mg/kg	4.51	0.242	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
Magnesium, Total	1780		mg/kg	9.02	1.39	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
Manganese, Total	185		mg/kg	0.902	0.143	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
Mercury, Total	1.00		mg/kg	0.080	0.052	1	03/11/22 20:50	03/17/22 20:16	EPA 7471B	1,7471B	ZK
Nickel, Total	15.1		mg/kg	2.26	0.218	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
Potassium, Total	472		mg/kg	226	13.0	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
Selenium, Total	ND		mg/kg	1.80	0.233	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.902	0.255	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
Sodium, Total	112	J	mg/kg	180	2.84	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.80	0.284	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
Vanadium, Total	21.9		mg/kg	0.902	0.183	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
Zinc, Total	457		mg/kg	4.51	0.264	2	03/11/22 20:16	03/25/22 17:32	EPA 3050B	1,6010D	MC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	13		mg/kg	0.92	0.92	1		03/25/22 17:32	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-23 Date Collected: 03/01/22 10:55

Client ID: SB011 18-20 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2470		mg/kg	8.41	2.27	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
Antimony, Total	ND		mg/kg	4.20	0.319	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
Arsenic, Total	2.02		mg/kg	0.841	0.175	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
Barium, Total	18.0		mg/kg	0.841	0.146	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
Beryllium, Total	0.244	J	mg/kg	0.420	0.028	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
Cadmium, Total	0.109	J	mg/kg	0.841	0.082	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
Calcium, Total	771		mg/kg	8.41	2.94	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
Chromium, Total	6.30		mg/kg	0.841	0.081	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
Cobalt, Total	3.24		mg/kg	1.68	0.140	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
Copper, Total	7.30		mg/kg	0.841	0.217	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
Iron, Total	5970		mg/kg	4.20	0.759	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
Lead, Total	4.40		mg/kg	4.20	0.225	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
Magnesium, Total	1110		mg/kg	8.41	1.29	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
Manganese, Total	337		mg/kg	0.841	0.134	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
Mercury, Total	ND		mg/kg	0.079	0.052	1	03/11/22 20:50	03/17/22 20:20	EPA 7471B	1,7471B	ZK
Nickel, Total	7.54		mg/kg	2.10	0.203	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
Potassium, Total	406		mg/kg	210	12.1	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
Selenium, Total	ND		mg/kg	1.68	0.217	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.841	0.238	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
Sodium, Total	73.3	J	mg/kg	168	2.65	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.68	0.265	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
Vanadium, Total	11.3		mg/kg	0.841	0.171	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
Zinc, Total	17.0		mg/kg	4.20	0.246	2	03/11/22 20:16	03/25/22 17:36	EPA 3050B	1,6010D	MC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	6.3		mg/kg	0.88	0.88	1		03/25/22 17:36	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-24 Date Collected: 03/01/22 10:45

Client ID: SB011 6-8 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5360		mg/kg	8.95	2.42	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
Antimony, Total	ND		mg/kg	4.47	0.340	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
Arsenic, Total	3.40		mg/kg	0.895	0.186	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
Barium, Total	24.4		mg/kg	0.895	0.156	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
Beryllium, Total	0.313	J	mg/kg	0.447	0.030	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
Cadmium, Total	0.090	J	mg/kg	0.895	0.088	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
Calcium, Total	2970		mg/kg	8.95	3.13	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
Chromium, Total	8.90		mg/kg	0.895	0.086	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
Cobalt, Total	4.24		mg/kg	1.79	0.148	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
Copper, Total	8.19		mg/kg	0.895	0.231	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
Iron, Total	10000		mg/kg	4.47	0.808	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
Lead, Total	13.3		mg/kg	4.47	0.240	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
Magnesium, Total	1660		mg/kg	8.95	1.38	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
Manganese, Total	108		mg/kg	0.895	0.142	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
Mercury, Total	ND		mg/kg	0.080	0.052	1	03/11/22 20:50	03/17/22 20:23	EPA 7471B	1,7471B	ZK
Nickel, Total	7.66		mg/kg	2.24	0.216	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
Potassium, Total	368		mg/kg	224	12.9	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
Selenium, Total	ND		mg/kg	1.79	0.231	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.895	0.253	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
Sodium, Total	117	J	mg/kg	179	2.82	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.79	0.282	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
Vanadium, Total	13.4		mg/kg	0.895	0.182	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
Zinc, Total	24.2		mg/kg	4.47	0.262	2	03/11/22 20:16	03/25/22 17:40	EPA 3050B	1,6010D	MC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	8.9		mg/kg	0.94	0.94	1		03/25/22 17:40	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-25 Date Collected: 03/01/22 12:05

Client ID: SB010 4-6 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3920		mg/kg	8.72	2.36	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
Antimony, Total	ND		mg/kg	4.36	0.332	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
Arsenic, Total	4.64		mg/kg	0.872	0.181	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
Barium, Total	56.1		mg/kg	0.872	0.152	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
Beryllium, Total	0.262	J	mg/kg	0.436	0.029	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
Cadmium, Total	0.157	J	mg/kg	0.872	0.086	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
Calcium, Total	8830		mg/kg	8.72	3.05	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
Chromium, Total	7.39		mg/kg	0.872	0.084	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
Cobalt, Total	3.98		mg/kg	1.74	0.145	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
Copper, Total	11.4		mg/kg	0.872	0.225	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
Iron, Total	9120		mg/kg	4.36	0.788	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
Lead, Total	28.8		mg/kg	4.36	0.234	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
Magnesium, Total	4190		mg/kg	8.72	1.34	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
Manganese, Total	193		mg/kg	0.872	0.139	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
Mercury, Total	0.062	J	mg/kg	0.076	0.050	1	03/11/22 20:50	03/17/22 20:26	EPA 7471B	1,7471B	ZK
Nickel, Total	11.3		mg/kg	2.18	0.211	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
Potassium, Total	445		mg/kg	218	12.6	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
Selenium, Total	ND		mg/kg	1.74	0.225	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.872	0.247	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
Sodium, Total	96.1	J	mg/kg	174	2.75	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.74	0.275	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
Vanadium, Total	11.6		mg/kg	0.872	0.177	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
Zinc, Total	35.8		mg/kg	4.36	0.256	2	03/11/22 20:16	03/25/22 17:45	EPA 3050B	1,6010D	MC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.1	J	mg/kg	0.88	0.89	1		03/25/22 17:45	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-26 Date Collected: 03/01/22 12:10

Client ID: SB010 8-10 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3440		mg/kg	8.94	2.41	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
Antimony, Total	ND		mg/kg	4.47	0.340	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
Arsenic, Total	3.60		mg/kg	0.894	0.186	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
Barium, Total	24.2		mg/kg	0.894	0.156	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
Beryllium, Total	0.232	J	mg/kg	0.447	0.030	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
Cadmium, Total	0.152	J	mg/kg	0.894	0.088	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
Calcium, Total	1640		mg/kg	8.94	3.13	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
Chromium, Total	7.04		mg/kg	0.894	0.086	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
Cobalt, Total	4.10		mg/kg	1.79	0.148	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
Copper, Total	9.31		mg/kg	0.894	0.231	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
Iron, Total	8780		mg/kg	4.47	0.808	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
Lead, Total	26.6		mg/kg	4.47	0.240	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
Magnesium, Total	1560		mg/kg	8.94	1.38	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
Manganese, Total	196		mg/kg	0.894	0.142	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
Mercury, Total	0.067	J	mg/kg	0.081	0.053	1	03/11/22 20:50	03/17/22 20:30	EPA 7471B	1,7471B	ZK
Nickel, Total	9.11		mg/kg	2.24	0.216	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
Potassium, Total	378		mg/kg	224	12.9	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
Selenium, Total	ND		mg/kg	1.79	0.231	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.894	0.253	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
Sodium, Total	79.5	J	mg/kg	179	2.82	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.79	0.282	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
Vanadium, Total	10.5		mg/kg	0.894	0.182	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
Zinc, Total	31.7		mg/kg	4.47	0.262	2	03/11/22 20:16	03/25/22 18:02	EPA 3050B	1,6010D	MC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.0		mg/kg	0.91	0.91	1		03/25/22 18:02	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-27 Date Collected: 03/01/22 12:15

Client ID: SB003 9-11 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5610		mg/kg	9.16	2.47	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
Antimony, Total	2.09	J	mg/kg	4.58	0.348	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
Arsenic, Total	7.70		mg/kg	0.916	0.190	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
Barium, Total	232		mg/kg	0.916	0.159	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
Beryllium, Total	0.320	J	mg/kg	0.458	0.030	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
Cadmium, Total	1.29		mg/kg	0.916	0.090	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
Calcium, Total	5800		mg/kg	9.16	3.20	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
Chromium, Total	15.5		mg/kg	0.916	0.088	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
Cobalt, Total	6.13		mg/kg	1.83	0.152	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
Copper, Total	226		mg/kg	0.916	0.236	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
Iron, Total	21800		mg/kg	4.58	0.827	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
Lead, Total	716		mg/kg	4.58	0.245	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
Magnesium, Total	2110		mg/kg	9.16	1.41	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
Manganese, Total	207		mg/kg	0.916	0.146	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
Mercury, Total	1.80		mg/kg	0.083	0.054	1	03/11/22 20:50	03/17/22 20:33	EPA 7471B	1,7471B	ZK
Nickel, Total	19.1		mg/kg	2.29	0.222	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
Potassium, Total	673		mg/kg	229	13.2	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
Selenium, Total	ND		mg/kg	1.83	0.236	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.916	0.259	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
Sodium, Total	157	J	mg/kg	183	2.88	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.83	0.288	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
Vanadium, Total	21.0		mg/kg	0.916	0.186	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
Zinc, Total	567		mg/kg	4.58	0.268	2	03/11/22 20:16	03/25/22 18:06	EPA 3050B	1,6010D	MC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	14		mg/kg	0.92	0.92	1		03/25/22 18:06	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-28 Date Collected: 03/01/22 12:40

Client ID: SB003 20-22 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4780		mg/kg	8.63	2.33	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
Antimony, Total	ND		mg/kg	4.31	0.328	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
Arsenic, Total	2.86		mg/kg	0.863	0.179	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
Barium, Total	40.3		mg/kg	0.863	0.150	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
Beryllium, Total	0.233	J	mg/kg	0.431	0.029	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.863	0.085	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
Calcium, Total	756		mg/kg	8.63	3.02	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
Chromium, Total	12.1		mg/kg	0.863	0.083	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
Cobalt, Total	4.58		mg/kg	1.72	0.143	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
Copper, Total	14.8		mg/kg	0.863	0.223	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
Iron, Total	9200		mg/kg	4.31	0.779	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
Lead, Total	7.14		mg/kg	4.31	0.231	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
Magnesium, Total	1710		mg/kg	8.63	1.33	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
Manganese, Total	172		mg/kg	0.863	0.137	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
Mercury, Total	ND		mg/kg	0.074	0.048	1	03/11/22 20:50	03/17/22 20:36	EPA 7471B	1,7471B	ZK
Nickel, Total	11.4		mg/kg	2.16	0.209	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
Potassium, Total	852		mg/kg	216	12.4	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
Selenium, Total	ND		mg/kg	1.72	0.223	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.863	0.244	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
Sodium, Total	81.0	J	mg/kg	172	2.72	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.72	0.272	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
Vanadium, Total	17.3		mg/kg	0.863	0.175	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
Zinc, Total	28.9		mg/kg	4.31	0.253	2	03/11/22 20:16	03/25/22 18:11	EPA 3050B	1,6010D	MC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12	J	mg/kg	0.88	0.88	1		03/25/22 18:11	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-29 Date Collected: 03/01/22 17:30

Client ID: SB005 12-14 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4260		mg/kg	8.81	2.38	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
Antimony, Total	ND		mg/kg	4.41	0.335	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
Arsenic, Total	1.60		mg/kg	0.881	0.183	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
Barium, Total	25.8		mg/kg	0.881	0.153	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
Beryllium, Total	0.256	J	mg/kg	0.441	0.029	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
Cadmium, Total	0.088	J	mg/kg	0.881	0.086	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
Calcium, Total	704		mg/kg	8.81	3.08	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
Chromium, Total	12.8		mg/kg	0.881	0.085	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
Cobalt, Total	4.34		mg/kg	1.76	0.146	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
Copper, Total	9.58		mg/kg	0.881	0.227	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
Iron, Total	7270		mg/kg	4.41	0.796	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
Lead, Total	5.98		mg/kg	4.41	0.236	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
Magnesium, Total	1600		mg/kg	8.81	1.36	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
Manganese, Total	104		mg/kg	0.881	0.140	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
Mercury, Total	0.073	J	mg/kg	0.078	0.051	1	03/11/22 20:50	03/17/22 20:40	EPA 7471B	1,7471B	ZK
Nickel, Total	10.8		mg/kg	2.20	0.213	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
Potassium, Total	659		mg/kg	220	12.7	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
Selenium, Total	ND		mg/kg	1.76	0.227	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.881	0.249	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
Sodium, Total	83.0	J	mg/kg	176	2.78	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.76	0.278	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
Vanadium, Total	12.5		mg/kg	0.881	0.179	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
Zinc, Total	25.4		mg/kg	4.41	0.258	2	03/11/22 20:16	03/25/22 18:15	EPA 3050B	1,6010D	MC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	13		mg/kg	0.91	0.91	1		03/25/22 18:15	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-30 Date Collected: 03/01/22 15:25

Client ID: SB002 2-4 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3720		mg/kg	8.87	2.40	2	03/11/22 20:16	03/25/22 18:19	EPA 3050B	1,6010D	MC
Antimony, Total	9.45		mg/kg	4.44	0.337	2	03/11/22 20:16	03/25/22 18:19	EPA 3050B	1,6010D	MC
Arsenic, Total	23.5		mg/kg	0.887	0.184	2	03/11/22 20:16	03/25/22 18:19	EPA 3050B	1,6010D	MC
Barium, Total	188		mg/kg	0.887	0.154	2	03/11/22 20:16	03/25/22 18:19	EPA 3050B	1,6010D	MC
Beryllium, Total	0.240	J	mg/kg	0.444	0.029	2	03/11/22 20:16	03/25/22 18:19	EPA 3050B	1,6010D	MC
Cadmium, Total	2.58		mg/kg	0.887	0.087	2	03/11/22 20:16	03/25/22 18:19	EPA 3050B	1,6010D	MC
Calcium, Total	1490		mg/kg	8.87	3.10	2	03/11/22 20:16	03/25/22 18:19	EPA 3050B	1,6010D	MC
Chromium, Total	25.8		mg/kg	0.887	0.085	2	03/11/22 20:16	03/25/22 18:19	EPA 3050B	1,6010D	MC
Cobalt, Total	9.74		mg/kg	1.77	0.147	2	03/11/22 20:16	03/25/22 18:19	EPA 3050B	1,6010D	MC
Copper, Total	274		mg/kg	0.887	0.229	2	03/11/22 20:16	03/25/22 18:19	EPA 3050B	1,6010D	MC
Iron, Total	186000		mg/kg	44.4	8.01	20	03/11/22 20:16	03/26/22 10:23	EPA 3050B	1,6010D	SV
Lead, Total	1940		mg/kg	4.44	0.238	2	03/11/22 20:16	03/25/22 18:19	EPA 3050B	1,6010D	MC
Magnesium, Total	771		mg/kg	8.87	1.37	2	03/11/22 20:16	03/25/22 18:19	EPA 3050B	1,6010D	MC
Manganese, Total	564		mg/kg	0.887	0.141	2	03/11/22 20:16	03/25/22 18:19	EPA 3050B	1,6010D	MC
Mercury, Total	1.52		mg/kg	0.081	0.053	1	03/11/22 20:50	03/17/22 20:49	EPA 7471B	1,7471B	ZK
Nickel, Total	20.0		mg/kg	2.22	0.215	2	03/11/22 20:16	03/25/22 18:19	EPA 3050B	1,6010D	MC
Potassium, Total	146	J	mg/kg	222	12.8	2	03/11/22 20:16	03/25/22 18:19	EPA 3050B	1,6010D	MC
Selenium, Total	ND		mg/kg	1.77	0.229	2	03/11/22 20:16	03/25/22 18:19	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.887	0.251	2	03/11/22 20:16	03/25/22 18:19	EPA 3050B	1,6010D	MC
Sodium, Total	87.2	J	mg/kg	177	2.79	2	03/11/22 20:16	03/25/22 18:19	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.77	0.279	2	03/11/22 20:16	03/25/22 18:19	EPA 3050B	1,6010D	MC
Vanadium, Total	34.6		mg/kg	0.887	0.180	2	03/11/22 20:16	03/25/22 18:19	EPA 3050B	1,6010D	MC
Zinc, Total	635		mg/kg	4.44	0.260	2	03/11/22 20:16	03/25/22 18:19	EPA 3050B	1,6010D	MC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	26	J	mg/kg	0.92	0.92	1		03/25/22 18:19	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-31 Date Collected: 03/01/22 16:40

Client ID: SB009 9-11 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4060		mg/kg	9.23	2.49	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
Antimony, Total	ND		mg/kg	4.62	0.351	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
Arsenic, Total	3.20		mg/kg	0.923	0.192	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
Barium, Total	16.7		mg/kg	0.923	0.161	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
Beryllium, Total	0.342	J	mg/kg	0.462	0.031	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.923	0.091	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
Calcium, Total	443		mg/kg	9.23	3.23	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
Chromium, Total	5.20		mg/kg	0.923	0.089	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
Cobalt, Total	2.66		mg/kg	1.85	0.153	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
Copper, Total	3.47		mg/kg	0.923	0.238	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
Iron, Total	6270		mg/kg	4.62	0.834	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
Lead, Total	5.12		mg/kg	4.62	0.247	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
Magnesium, Total	889		mg/kg	9.23	1.42	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
Manganese, Total	79.4		mg/kg	0.923	0.147	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
Mercury, Total	ND		mg/kg	0.083	0.054	1	03/11/22 20:50	03/17/22 20:53	EPA 7471B	1,7471B	ZK
Nickel, Total	5.89		mg/kg	2.31	0.223	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
Potassium, Total	171	J	mg/kg	231	13.3	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
Selenium, Total	ND		mg/kg	1.85	0.238	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.923	0.261	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
Sodium, Total	63.6	J	mg/kg	185	2.91	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.85	0.291	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
Vanadium, Total	7.87		mg/kg	0.923	0.187	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
Zinc, Total	15.1		mg/kg	4.62	0.270	2	03/11/22 20:16	03/25/22 18:24	EPA 3050B	1,6010D	MC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	5.2		mg/kg	0.95	0.95	1		03/25/22 18:24	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-32 Date Collected: 03/01/22 16:30

Client ID: SB009 3-5 Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5200		mg/kg	8.40	2.27	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
Antimony, Total	ND		mg/kg	4.20	0.319	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
Arsenic, Total	2.80		mg/kg	0.840	0.175	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
Barium, Total	19.7		mg/kg	0.840	0.146	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
Beryllium, Total	0.344	J	mg/kg	0.420	0.028	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.840	0.082	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
Calcium, Total	582		mg/kg	8.40	2.94	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
Chromium, Total	7.85		mg/kg	0.840	0.081	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
Cobalt, Total	3.83		mg/kg	1.68	0.139	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
Copper, Total	6.42		mg/kg	0.840	0.217	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
Iron, Total	8290		mg/kg	4.20	0.758	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
Lead, Total	8.98		mg/kg	4.20	0.225	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
Magnesium, Total	1340		mg/kg	8.40	1.29	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
Manganese, Total	117		mg/kg	0.840	0.134	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
Mercury, Total	ND		mg/kg	0.072	0.047	1	03/11/22 20:50	03/17/22 20:56	EPA 7471B	1,7471B	ZK
Nickel, Total	7.94		mg/kg	2.10	0.203	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
Potassium, Total	269		mg/kg	210	12.1	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
Selenium, Total	ND		mg/kg	1.68	0.217	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.840	0.238	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
Sodium, Total	133	J	mg/kg	168	2.64	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.68	0.264	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
Vanadium, Total	13.1		mg/kg	0.840	0.170	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
Zinc, Total	22.1		mg/kg	4.20	0.246	2	03/11/22 20:16	03/25/22 18:28	EPA 3050B	1,6010D	MC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.8		mg/kg	0.86	0.86	1		03/25/22 18:28	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-37 Date Collected: 03/01/22 18:10

Client ID: EQUIPMENT BLANK Date Received: 03/02/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.00791	J	mg/l	0.0100	0.00327	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
Antimony, Total	ND		mg/l	0.00400	0.00042	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
Arsenic, Total	0.00024	J	mg/l	0.00050	0.00016	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
Barium, Total	ND		mg/l	0.00050	0.00017	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
Calcium, Total	ND		mg/l	0.100	0.0394	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
Chromium, Total	ND		mg/l	0.00100	0.00017	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
Copper, Total	ND		mg/l	0.00100	0.00038	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
Iron, Total	ND		mg/l	0.0500	0.0191	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
Manganese, Total	ND		mg/l	0.00100	0.00044	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/18/22 11:51	03/18/22 17:17	EPA 7470A	1,7470A	ZK
Nickel, Total	ND		mg/l	0.00200	0.00055	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
Potassium, Total	ND		mg/l	0.100	0.0309	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
Sodium, Total	0.0456	J	mg/l	0.100	0.0293	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
Thallium, Total	ND		mg/l	0.00100	0.00014	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
Zinc, Total	ND		mg/l	0.01000	0.00341	1	03/08/22 18:44	03/09/22 11:40	EPA 3005A	1,6020B	CD
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		03/09/22 11:40	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

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): 37 Batch: WG1611826-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/18/22 11:51	03/18/22 17:10	1,7470A	ZK

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): 37 Batch: WG1613048-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD
Antimony, Total	ND		mg/l	0.00400	0.00042	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD
Barium, Total	ND		mg/l	0.00050	0.00017	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD
Calcium, Total	ND		mg/l	0.100	0.0394	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD
Chromium, Total	ND		mg/l	0.00100	0.00017	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD
Copper, Total	ND		mg/l	0.00100	0.00038	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD
Iron, Total	ND		mg/l	0.0500	0.0191	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD
Manganese, Total	ND		mg/l	0.00100	0.00044	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD
Nickel, Total	ND		mg/l	0.00200	0.00055	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD
Potassium, Total	ND		mg/l	0.100	0.0309	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD
Sodium, Total	ND		mg/l	0.100	0.0293	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD
Thallium, Total	0.00030	J	mg/l	0.00100	0.00014	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD
Zinc, Total	ND		mg/l	0.01000	0.00341	1	03/08/22 18:44	03/09/22 09:52	1,6020B	CD

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

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): 01-20 Batch: WG1614260-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW
Barium, Total	ND		mg/kg	0.400	0.070	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW
Calcium, Total	ND		mg/kg	4.00	1.40	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW
Copper, Total	ND		mg/kg	0.400	0.103	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW
Iron, Total	ND		mg/kg	2.00	0.361	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW
Lead, Total	ND		mg/kg	2.00	0.107	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW
Magnesium, Total	ND		mg/kg	4.00	0.616	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW
Manganese, Total	ND		mg/kg	0.400	0.064	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW
Potassium, Total	5.79	J	mg/kg	100	5.76	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW
Silver, Total	ND		mg/kg	0.400	0.113	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW
Sodium, Total	30.3	J	mg/kg	80.0	1.26	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/11/22 21:35	03/24/22 20:46	1,6010D	EW

Prep Information

Digestion Method: EPA 3050B

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

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): 01-20 Batch: WG1614261-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	03/11/22 22:00	03/18/22 00:38	1,7471B	ZK

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): 21-32 Batch: WG1614262-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC
Barium, Total	ND		mg/kg	0.400	0.070	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC
Calcium, Total	ND		mg/kg	4.00	1.40	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC
Copper, Total	ND		mg/kg	0.400	0.103	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC
Iron, Total	ND		mg/kg	2.00	0.361	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC
Lead, Total	ND		mg/kg	2.00	0.107	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC
Manganese, Total	ND		mg/kg	0.400	0.064	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC
Potassium, Total	ND		mg/kg	100	5.76	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC
Silver, Total	ND		mg/kg	0.400	0.113	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC
Sodium, Total	ND		mg/kg	80.0	1.26	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/11/22 20:16	03/25/22 15:50	1,6010D	MC

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

Method Blank Analysis
Batch Quality Control

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): 21-32 Batch: WG1614263-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	03/11/22 20:50	03/17/22 19:50	1,7471B	ZK

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 37 Batch: WG1611826-2								
Mercury, Total	99		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 37 Batch: WG1613048-2					
Aluminum, Total	98	-	80-120	-	
Antimony, Total	85	-	80-120	-	
Arsenic, Total	99	-	80-120	-	
Barium, Total	96	-	80-120	-	
Beryllium, Total	106	-	80-120	-	
Cadmium, Total	99	-	80-120	-	
Calcium, Total	94	-	80-120	-	
Chromium, Total	96	-	80-120	-	
Cobalt, Total	92	-	80-120	-	
Copper, Total	95	-	80-120	-	
Iron, Total	98	-	80-120	-	
Lead, Total	98	-	80-120	-	
Magnesium, Total	104	-	80-120	-	
Manganese, Total	94	-	80-120	-	
Nickel, Total	93	-	80-120	-	
Potassium, Total	101	-	80-120	-	
Selenium, Total	101	-	80-120	-	
Silver, Total	96	-	80-120	-	
Sodium, Total	102	-	80-120	-	
Thallium, Total	104	-	80-120	-	
Vanadium, Total	96	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 37 Batch: WG1613048-2					
Zinc, Total	92	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-20 Batch: WG1614260-2 SRM Lot Number: D113-540					
Aluminum, Total	65	-	51-149	-	
Antimony, Total	107	-	20-250	-	
Arsenic, Total	90	-	70-130	-	
Barium, Total	84	-	75-125	-	
Beryllium, Total	93	-	75-125	-	
Cadmium, Total	94	-	75-125	-	
Calcium, Total	87	-	73-128	-	
Chromium, Total	91	-	70-130	-	
Cobalt, Total	92	-	75-125	-	
Copper, Total	86	-	75-125	-	
Iron, Total	88	-	36-164	-	
Lead, Total	89	-	72-128	-	
Magnesium, Total	83	-	63-138	-	
Manganese, Total	89	-	77-123	-	
Nickel, Total	93	-	70-130	-	
Potassium, Total	79	-	59-141	-	
Selenium, Total	91	-	66-134	-	
Silver, Total	88	-	70-131	-	
Sodium, Total	101	-	35-164	-	
Thallium, Total	92	-	70-130	-	
Vanadium, Total	88	-	74-126	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-20 Batch: WG1614260-2 SRM Lot Number: D113-540					
Zinc, Total	91	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-20 Batch: WG1614261-2 SRM Lot Number: D113-540					
Mercury, Total	82	-	60-140	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 21-32 Batch: WG1614262-2 SRM Lot Number: D113-540					
Aluminum, Total	67	-	51-149	-	
Antimony, Total	108	-	20-250	-	
Arsenic, Total	96	-	70-130	-	
Barium, Total	85	-	75-125	-	
Beryllium, Total	102	-	75-125	-	
Cadmium, Total	97	-	75-125	-	
Calcium, Total	91	-	73-128	-	
Chromium, Total	90	-	70-130	-	
Cobalt, Total	96	-	75-125	-	
Copper, Total	90	-	75-125	-	
Iron, Total	88	-	36-164	-	
Lead, Total	92	-	72-128	-	
Magnesium, Total	80	-	63-138	-	
Manganese, Total	88	-	77-123	-	
Nickel, Total	95	-	70-130	-	
Potassium, Total	75	-	59-141	-	
Selenium, Total	96	-	66-134	-	
Silver, Total	87	-	70-131	-	
Sodium, Total	88	-	35-164	-	
Thallium, Total	96	-	70-130	-	
Vanadium, Total	86	-	74-126	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 21-32 Batch: WG1614262-2 SRM Lot Number: D113-540					
Zinc, Total	93	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 21-32 Batch: WG1614263-2 SRM Lot Number: D113-540					
Mercury, Total	86	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

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): 37 QC Batch ID: WG1611826-3 QC Sample: L2210848-37 Client ID: EQUIPMENT BLANK												
Mercury, Total	ND	0.005	0.00480	96		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

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): 37 QC Batch ID: WG1613048-3 QC Sample: L2211365-09 Client ID: MS Sample										
Aluminum, Total	ND	2	1.98	99		-	-	75-125	-	20
Antimony, Total	ND	0.5	0.3327	**66**	Q	-	-	75-125	-	20
Arsenic, Total	ND	0.12	0.09930	83		-	-	75-125	-	20
Barium, Total	0.00020J	2	1.913	96		-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.05019	100		-	-	75-125	-	20
Cadmium, Total	ND	0.053	0.05324	100		-	-	75-125	-	20
Calcium, Total	ND	10	9.88	99		-	-	75-125	-	20
Chromium, Total	ND	0.2	0.1929	96		-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.4596	92		-	-	75-125	-	20
Copper, Total	ND	0.25	0.2366	95		-	-	75-125	-	20
Iron, Total	ND	1	1.03	103		-	-	75-125	-	20
Lead, Total	ND	0.53	0.5184	98		-	-	75-125	-	20
Magnesium, Total	ND	10	10.3	103		-	-	75-125	-	20
Manganese, Total	ND	0.5	0.4749	95		-	-	75-125	-	20
Nickel, Total	ND	0.5	0.4692	94		-	-	75-125	-	20
Potassium, Total	ND	10	9.85	98		-	-	75-125	-	20
Selenium, Total	ND	0.12	0.118	98		-	-	75-125	-	20
Silver, Total	ND	0.05	0.04837	97		-	-	75-125	-	20
Sodium, Total	ND	10	9.94	99		-	-	75-125	-	20
Thallium, Total	ND	0.12	0.1251	104		-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.4740	95		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

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): 37 QC Batch ID: WG1613048-3 QC Sample: L2211365-09 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.4620	92	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

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): 01-20 QC Batch ID: WG1614260-3 WG1614260-4 QC Sample: L2210848-01 Client ID: SB010 0-2												
Aluminum, Total	4170	163	5460	**791**	Q	5300	**660**	Q	75-125	3		20
Antimony, Total	ND	40.8	20.0	**49**	Q	22.7	**53**	Q	75-125	13		20
Arsenic, Total	4.03	9.78	12.5	86		13.0	87		75-125	4		20
Barium, Total	37.8	163	184	90		180	83		75-125	2		20
Beryllium, Total	0.282J	4.08	3.85	94		3.92	92		75-125	2		20
Cadmium, Total	0.162J	4.32	3.64	84		3.77	83		75-125	4		20
Calcium, Total	38300	815	21000	**0**	Q	27700	**0**	Q	75-125	**28**	Q	20
Chromium, Total	10.8	16.3	26.4	96		24.2	78		75-125	9		20
Cobalt, Total	3.97	40.8	35.8	78		36.6	76		75-125	2		20
Copper, Total	16.4	20.4	35.8	95		36.8	95		75-125	3		20
Iron, Total	9470	81.5	10900	**1750**	Q	11000	**1790**	Q	75-125	1		20
Lead, Total	58.2	43.2	89.9	**73**	Q	83.1	**55**	Q	75-125	8		20
Magnesium, Total	16900	815	9100	**0**	Q	11300	**0**	Q	75-125	**22**	Q	20
Manganese, Total	219	40.8	241	**54**	Q	223	**9**	Q	75-125	8		20
Nickel, Total	11.2	40.8	47.9	90		44.2	77		75-125	8		20
Potassium, Total	725	815	1720	122		1590	101		75-125	8		20
Selenium, Total	0.503J	9.78	8.19	84		8.51	83		75-125	4		20
Silver, Total	ND	24.4	22.8	93		23.6	92		75-125	3		20
Sodium, Total	230	815	970	91		1070	98		75-125	10		20
Thallium, Total	ND	9.78	6.98	**71**	Q	6.75	**66**	Q	75-125	3		20
Vanadium, Total	16.2	40.8	53.9	92		58.2	98		75-125	8		20

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

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): 01-20 QC Batch ID: WG1614260-3 WG1614260-4 QC Sample: L2210848-01 Client ID: SB010 0-2												
Zinc, Total	52.6	40.8	92.0	97		188	**316**	Q	75-125	**69**	Q	20

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

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): 01-20 QC Batch ID: WG1614260-7 WG1614260-8 QC Sample: L2210848-09 Client ID: SB008 0-2												
Aluminum, Total	4200	173	4680	**277**	Q	4860	**386**	Q	75-125	4		20
Antimony, Total	ND	43.4	23.0	**53**	Q	23.7	**55**	Q	75-125	3		20
Arsenic, Total	2.34	10.4	12.2	95		11.5	89		75-125	6		20
Barium, Total	25.9	173	178	88		173	86		75-125	3		20
Beryllium, Total	0.287J	4.34	4.20	97		4.00	93		75-125	5		20
Cadmium, Total	0.098J	4.6	4.03	88		3.88	86		75-125	4		20
Calcium, Total	11000	867	19700	**1000**	Q	13000	**234**	Q	75-125	**41**	Q	20
Chromium, Total	8.77	17.3	23.6	85		24.4	91		75-125	3		20
Cobalt, Total	4.00	43.4	38.4	79		37.5	78		75-125	2		20
Copper, Total	10.1	21.7	28.4	84		29.2	89		75-125	3		20
Iron, Total	8660	86.7	8430	**0**	Q	9870	**1410**	Q	75-125	16		20
Lead, Total	17.3	46	54.1	80		56.2	86		75-125	4		20
Magnesium, Total	5220	867	10200	**574**	Q	6110	104		75-125	**50**	Q	20
Manganese, Total	158	43.4	170	**28**	Q	198	93		75-125	15		20
Nickel, Total	9.40	43.4	44.4	81		45.9	85		75-125	3		20
Potassium, Total	690	867	1420	84		1510	96		75-125	6		20
Selenium, Total	ND	10.4	9.10	87		8.82	86		75-125	3		20
Silver, Total	ND	26	25.4	98		23.7	92		75-125	7		20
Sodium, Total	135J	867	983	113		953	111		75-125	3		20
Thallium, Total	ND	10.4	8.65	83		8.25	80		75-125	5		20
Vanadium, Total	15.0	43.4	52.0	85		52.5	88		75-125	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

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): 01-20 QC Batch ID: WG1614260-7 WG1614260-8 QC Sample: L2210848-09 Client ID: SB008 0-2												
Zinc, Total	44.3	43.4	72.0	**64**	Q	82.1	88		75-125	13		20
Total Metals - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1614261-3 WG1614261-4 QC Sample: L2210848-01 Client ID: SB010 0-2												
Mercury, Total	0.168	0.15	0.346	119		0.274	**70**	Q	80-120	**23**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1614261-5 WG1614261-6 QC Sample: L2210848-09 Client ID: SB008 0-2												
Mercury, Total	0.066J	0.143	0.175	**123**	Q	0.188	**129**	Q	80-120	7		20

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

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): 21-32 QC Batch ID: WG1614262-3 QC Sample: L2210848-21 Client ID: SB011 0-2										
Aluminum, Total	7780	181	5600	**0**	Q	-	-	75-125	-	20
Antimony, Total	ND	45.3	15.8	**35**	Q	-	-	75-125	-	20
Arsenic, Total	5.11	10.9	14.4	85		-	-	75-125	-	20
Barium, Total	51.5	181	173	**67**	Q	-	-	75-125	-	20
Beryllium, Total	0.320J	4.53	3.90	86		-	-	75-125	-	20
Cadmium, Total	0.302J	4.8	4.08	85		-	-	75-125	-	20
Calcium, Total	6220	906	19900	**1510**	Q	-	-	75-125	-	20
Chromium, Total	11.8	18.1	29.3	96		-	-	75-125	-	20
Cobalt, Total	5.48	45.3	38.0	**72**	Q	-	-	75-125	-	20
Copper, Total	15.0	22.6	39.3	107		-	-	75-125	-	20
Iron, Total	13200	90.6	9940	**0**	Q	-	-	75-125	-	20
Lead, Total	73.8	48	95.1	**44**	Q	-	-	75-125	-	20
Magnesium, Total	3120	906	8750	**621**	Q	-	-	75-125	-	20
Manganese, Total	231	45.3	222	**0**	Q	-	-	75-125	-	20
Nickel, Total	13.3	45.3	55.7	94		-	-	75-125	-	20
Potassium, Total	439	906	1250	90		-	-	75-125	-	20
Selenium, Total	ND	10.9	8.72	80		-	-	75-125	-	20
Silver, Total	ND	27.2	22.9	84		-	-	75-125	-	20
Sodium, Total	167J	906	913	101		-	-	75-125	-	20
Thallium, Total	ND	10.9	7.21	**66**	Q	-	-	75-125	-	20
Vanadium, Total	19.9	45.3	52.0	**71**	Q	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

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): 21-32 QC Batch ID: WG1614262-3 QC Sample: L2210848-21 Client ID: SB011 0-2									
Zinc, Total	65.3	45.3	111	101	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 21-32 QC Batch ID: WG1614263-3 QC Sample: L2210848-21 Client ID: SB011 0-2									
Mercury, Total	0.087	0.146	0.257	116	-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 37 QC Batch ID: WG1611826-4 QC Sample: L2210848-37 Client ID: EQUIPMENT BLANK						
Mercury, Total	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 37 QC Batch ID: WG1613048-4 QC Sample: L2211365-09 Client ID: DUP Sample					
Aluminum, Total	ND	ND	mg/l	NC	20
Antimony, Total	ND	ND	mg/l	NC	20
Arsenic, Total	ND	ND	mg/l	NC	20
Barium, Total	0.00020J	0.00018J	mg/l	NC	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Calcium, Total	ND	ND	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Cobalt, Total	ND	ND	mg/l	NC	20
Copper, Total	ND	ND	mg/l	NC	20
Iron, Total	ND	ND	mg/l	NC	20
Lead, Total	ND	ND	mg/l	NC	20
Magnesium, Total	ND	ND	mg/l	NC	20
Manganese, Total	ND	ND	mg/l	NC	20
Nickel, Total	ND	ND	mg/l	NC	20
Potassium, Total	ND	ND	mg/l	NC	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Sodium, Total	ND	ND	mg/l	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2210848

Report Date: 03/28/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 37 QC Batch ID: WG1613048-4 QC Sample: L2211365-09 Client ID: DUP Sample					
Thallium, Total	ND	0.00019J	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 21-32 QC Batch ID: WG1614262-4 QC Sample: L2210848-21 Client ID: SB011 0-2						
Aluminum, Total	7780	2930	mg/kg	**91**	Q	20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	5.11	4.35	mg/kg	16		20
Barium, Total	51.5	21.1	mg/kg	**84**	Q	20
Beryllium, Total	0.320J	0.181J	mg/kg	NC		20
Cadmium, Total	0.302J	0.242J	mg/kg	NC		20
Calcium, Total	6220	23700	mg/kg	**117**	Q	20
Chromium, Total	11.8	7.81	mg/kg	**41**	Q	20
Cobalt, Total	5.48	3.62	mg/kg	**41**	Q	20
Copper, Total	15.0	29.4	mg/kg	**65**	Q	20
Iron, Total	13200	7240	mg/kg	**58**	Q	20
Lead, Total	73.8	36.6	mg/kg	**67**	Q	20
Magnesium, Total	3120	13400	mg/kg	**124**	Q	20
Manganese, Total	231	127	mg/kg	**58**	Q	20
Nickel, Total	13.3	9.84	mg/kg	**30**	Q	20
Potassium, Total	439	433	mg/kg	1		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	167J	121J	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 21-32 QC Batch ID: WG1614262-4 QC Sample: L2210848-21 Client ID: SB011 0-2						
Thallium, Total	ND	ND	mg/kg	NC		20
Vanadium, Total	19.9	12.7	mg/kg	**44**	Q	20
Zinc, Total	65.3	53.6	mg/kg	20		20
Total Metals - Mansfield Lab Associated sample(s): 21-32 QC Batch ID: WG1614263-4 QC Sample: L2210848-21 Client ID: SB011 0-2						
Mercury, Total	0.087	0.050J	mg/kg	NC		20

Project Name: TOT2101
Project Number: TOT2101

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1614260-10 QC Sample: L2210848-09 Client ID: SB008 0-2						
Aluminum, Total	4200	4180	mg/kg	0		20
Barium, Total	25.9	26.2	mg/kg	1		20
Calcium, Total	11000	11000	mg/kg	0		20
Iron, Total	8660	8980	mg/kg	4		20
Magnesium, Total	5220	5630	mg/kg	8		20
Manganese, Total	158	162	mg/kg	3		20
Total Metals - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1614260-6 QC Sample: L2210848-01 Client ID: SB010 0-2						
Aluminum, Total	4170	4620	mg/kg	11		20
Barium, Total	37.8	42.4	mg/kg	12		20
Calcium, Total	38300	43600	mg/kg	14		20
Iron, Total	9470	11000	mg/kg	16		20
Magnesium, Total	16900	20300	mg/kg	20		20
Manganese, Total	219	253	mg/kg	16		20

Project Name: TOT2101
Project Number: TOT2101

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	Serial Dilution	Units	% D		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 21-32 QC Batch ID: WG1614262-6 QC Sample: L2210848-21 Client ID: SB011 0-2						
Aluminum, Total	7780	9550	mg/kg	**23**	Q	20
Barium, Total	51.5	63.9	mg/kg	**24**	Q	20
Calcium, Total	6220	7790	mg/kg	**25**	Q	20
Iron, Total	13200	16700	mg/kg	**27**	Q	20
Magnesium, Total	3120	3930	mg/kg	**26**	Q	20
Manganese, Total	231	289	mg/kg	**25**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-01
Client ID: SB010 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:20
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.3		%	0.100	NA	1	-	03/03/22 09:40	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	03/09/22 02:10	03/10/22 09:48	1,9010C/9012B	CS
Chromium, Hexavalent	0.173	J	mg/kg	0.867	0.173	1	03/11/22 11:00	03/15/22 12:25	1,7196A	JT

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-02
Client ID: SB008 12-14
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.1		%	0.100	NA	1	-	03/03/22 09:40	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	03/09/22 02:10	03/10/22 09:53	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.908	0.182	1	03/11/22 11:00	03/15/22 12:25	1,7196A	JT

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-03
Client ID: SB006 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.0		%	0.100	NA	1	-	03/03/22 09:40	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	03/09/22 02:10	03/10/22 09:54	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.870	0.174	1	03/11/22 11:00	03/15/22 12:25	1,7196A	JT

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-04
Client ID: SB006 3-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.4		%	0.100	NA	1	-	03/03/22 09:40	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	03/09/22 02:10	03/10/22 09:55	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.875	0.175	1	03/11/22 11:00	03/15/22 12:25	1,7196A	JT

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-05
Client ID: SB007 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 13:55
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	03/03/22 09:40	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.22	1	03/10/22 11:15	03/10/22 14:37	1,9010C/9012B	CS
Chromium, Hexavalent	0.181	J	mg/kg	0.907	0.181	1	03/11/22 11:00	03/15/22 12:25	1,7196A	JT

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-06
Client ID: SB007 7-9
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 14:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.7		%	0.100	NA	1	-	03/03/22 09:40	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	03/10/22 11:15	03/10/22 14:38	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.944	0.189	1	03/11/22 11:00	03/15/22 12:25	1,7196A	JT

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-07
Client ID: SB007 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 14:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.9		%	0.100	NA	1	-	03/03/22 09:40	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	03/10/22 11:15	03/10/22 14:39	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.890	0.178	1	03/11/22 11:00	03/15/22 12:25	1,7196A	JT

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-08
Client ID: DUP001
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 00:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.5		%	0.100	NA	1	-	03/03/22 09:40	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	03/09/22 02:10	03/10/22 10:12	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.936	0.187	1	03/11/22 11:00	03/15/22 12:25	1,7196A	JT

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-09
Client ID: SB008 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.5		%	0.100	NA	1	-	03/03/22 09:40	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	03/10/22 11:15	03/10/22 14:40	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.874	0.175	1	03/11/22 11:00	03/15/22 12:25	1,7196A	JT

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-10
Client ID: SB008 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.2		%	0.100	NA	1	-	03/03/22 09:40	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	03/10/22 11:15	03/10/22 14:45	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.928	0.186	1	03/11/22 11:00	03/15/22 12:25	1,7196A	JT

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-11
Client ID: DUP002
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 00:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	03/03/22 09:40	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.22	1	03/09/22 02:10	03/10/22 10:13	1,9010C/9012B	CS
Chromium, Hexavalent	0.305	J	mg/kg	0.903	0.180	1	03/11/22 11:00	03/15/22 12:25	1,7196A	JT

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-12
Client ID: SB008 2-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.3		%	0.100	NA	1	-	03/03/22 09:40	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	03/10/22 11:15	03/10/22 14:46	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.906	0.181	1	03/11/22 11:00	03/15/22 12:25	1,7196A	JT

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-13
Client ID: SB005 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:20
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.7		%	0.100	NA	1	-	03/03/22 09:40	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.22	1	03/10/22 14:50	03/11/22 09:15	1,9010C/9012B	CS
Chromium, Hexavalent	0.180	J	mg/kg	0.902	0.180	1	03/11/22 11:00	03/15/22 12:25	1,7196A	JT

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-14
Client ID: SB001 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.5		%	0.100	NA	1	-	03/03/22 09:40	121,2540G	RI
Cyanide, Total	0.53	J	mg/kg	0.98	0.21	1	03/10/22 14:50	03/11/22 09:16	1,9010C/9012B	CS
Chromium, Hexavalent	0.222	J	mg/kg	0.846	0.169	1	03/11/22 11:00	03/15/22 12:25	1,7196A	JT

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-15
Client ID: SB001 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.5		%	0.100	NA	1	-	03/03/22 09:40	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	03/10/22 14:50	03/11/22 09:19	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.894	0.179	1	03/11/22 11:00	03/15/22 12:25	1,7196A	JT

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-16
Client ID: SB005 8-10
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.0		%	0.100	NA	1	-	03/03/22 09:40	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	03/10/22 14:50	03/11/22 09:20	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.899	0.180	1	03/11/22 11:00	03/15/22 12:25	1,7196A	JT

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-17
Client ID: SB002 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:45
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.8		%	0.100	NA	1	-	03/03/22 09:40	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	03/10/22 14:50	03/11/22 09:23	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.932	0.186	1	03/11/22 14:30	03/15/22 20:38	1,7196A	NL

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-18
Client ID: SB004 2-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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	-	03/03/22 09:40	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	03/10/22 14:50	03/11/22 09:24	1,9010C/9012B	CS
Chromium, Hexavalent	3.73		mg/kg	0.915	0.183	1	03/11/22 14:30	03/15/22 20:38	1,7196A	NL

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-19
Client ID: SB002 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.7		%	0.100	NA	1	-	03/03/22 09:40	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	03/10/22 14:50	03/11/22 09:25	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.872	0.174	1	03/11/22 14:30	03/15/22 20:38	1,7196A	NL

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-20
Client ID: SB003 15-17
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.2		%	0.100	NA	1	-	03/03/22 09:40	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.96	0.20	1	03/10/22 14:50	03/11/22 09:01	1,9010C/9012B	CS
Chromium, Hexavalent	0.343	J	mg/kg	0.832	0.166	1	03/11/22 14:30	03/15/22 20:38	1,7196A	NL

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-21
Client ID: SB011 0-2
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.8		%	0.100	NA	1	-	03/03/22 10:00	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	03/10/22 14:50	03/11/22 09:02	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.911	0.182	1	03/11/22 14:30	03/15/22 20:38	1,7196A	NL

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-22
Client ID: SB003 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 11:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	03/03/22 10:00	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	03/10/22 14:50	03/11/22 09:03	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.917	0.183	1	03/11/22 14:30	03/15/22 20:38	1,7196A	NL

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-23
Client ID: SB011 18-20
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:55
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.6		%	0.100	NA	1	-	03/03/22 10:00	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	03/10/22 14:50	03/11/22 09:04	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.883	0.177	1	03/11/22 14:30	03/15/22 20:38	1,7196A	NL

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-24
Client ID: SB011 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 10:45
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	03/03/22 10:00	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	03/10/22 14:50	03/11/22 09:07	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.943	0.189	1	03/11/22 14:30	03/15/22 20:38	1,7196A	NL

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-25
Client ID: SB010 4-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:05
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.4		%	0.100	NA	1	-	03/03/22 10:00	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	03/10/22 14:50	03/11/22 09:08	1,9010C/9012B	CS
Chromium, Hexavalent	0.299	J	mg/kg	0.885	0.177	1	03/11/22 14:30	03/15/22 20:38	1,7196A	NL

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-26
Client ID: SB010 8-10
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.5		%	0.100	NA	1	-	03/03/22 10:00	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	03/10/22 14:50	03/11/22 09:09	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.914	0.183	1	03/11/22 14:30	03/15/22 20:38	1,7196A	NL

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-27
Client ID: SB003 9-11
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:15
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.6		%	0.100	NA	1	-	03/03/22 10:00	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	03/10/22 14:50	03/11/22 09:10	1,9010C/9012B	CS
Chromium, Hexavalent	1.37		mg/kg	0.924	0.185	1	03/11/22 14:30	03/15/22 20:38	1,7196A	NL

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-28
Client ID: SB003 20-22
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 12:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.4		%	0.100	NA	1	-	03/03/22 10:00	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	03/10/22 14:50	03/11/22 09:11	1,9010C/9012B	CS
Chromium, Hexavalent	0.295	J	mg/kg	0.875	0.175	1	03/11/22 14:30	03/15/22 20:38	1,7196A	NL

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-29
Client ID: SB005 12-14
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.1		%	0.100	NA	1	-	03/03/22 10:00	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	03/10/22 14:50	03/11/22 09:26	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.908	0.182	1	03/11/22 14:30	03/15/22 20:38	1,7196A	NL

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-30
Client ID: SB002 2-4
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 15:25
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.7		%	0.100	NA	1	-	03/03/22 10:00	121,2540G	RI
Cyanide, Total	0.81	J	mg/kg	1.1	0.23	1	03/10/22 14:50	03/11/22 09:12	1,9010C/9012B	CS
Chromium, Hexavalent	0.242	J	mg/kg	0.923	0.184	1	03/11/22 14:30	03/15/22 20:38	1,7196A	NL

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-31
Client ID: SB009 9-11
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:40
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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	-	03/03/22 10:00	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	03/10/22 14:50	03/11/22 09:27	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.948	0.190	1	03/11/22 14:30	03/15/22 20:38	1,7196A	NL

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-32
Client ID: SB009 3-5
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:30
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.8		%	0.100	NA	1	-	03/03/22 10:00	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	03/10/22 14:50	03/11/22 09:28	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.862	0.172	1	03/11/22 14:30	03/15/22 20:38	1,7196A	NL

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-33
Client ID: SB005 15-17
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:35
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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	-	03/03/22 10:00	121,2540G	RI

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-34
Client ID: SB009 5-7
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 16:35
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.4		%	0.100	NA	1	-	03/03/22 10:00	121,2540G	RI

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-35
Client ID: SB004 6-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 17:00
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.1		%	0.100	NA	1	-	03/03/22 10:00	121,2540G	RI

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

SAMPLE RESULTS

Lab ID: L2210848-37
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/01/22 18:10
Date Received: 03/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

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	03/11/22 11:55	03/11/22 15:30	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/03/22 08:25	03/03/22 08:44	1,7196A	KA

Project Name: TOT2101 **Lab Number:** L2210848

Project Number: TOT2101 **Report Date:** 03/28/22

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): 37 Batch: WG1611139-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/03/22 08:25	03/03/22 08:42	1,7196A	KA
General Chemistry - Westborough Lab for sample(s): 08,11 Batch: WG1613528-1										
Cyanide, Total	ND		mg/kg	0.95	0.20	1	03/09/22 02:10	03/10/22 10:04	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1613626-1										
Cyanide, Total	ND		mg/kg	0.98	0.21	1	03/09/22 02:10	03/10/22 09:29	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 05-07,09-10,12 Batch: WG1614045-1										
Cyanide, Total	ND		mg/kg	0.92	0.20	1	03/10/22 11:15	03/10/22 14:09	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 20-28,30 Batch: WG1614159-1										
Cyanide, Total	ND		mg/kg	0.94	0.20	1	03/10/22 14:50	03/11/22 08:57	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 13-19,29,31-32 Batch: WG1614163-1										
Cyanide, Total	ND		mg/kg	0.94	0.20	1	03/10/22 14:50	03/11/22 08:57	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 37 Batch: WG1614537-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/11/22 11:55	03/11/22 15:24	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG1614684-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/11/22 11:00	03/15/22 12:25	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 09-16 Batch: WG1614687-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/11/22 11:00	03/15/22 12:25	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 17-24 Batch: WG1614688-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/11/22 14:30	03/15/22 20:38	1,7196A	NL
General Chemistry - Westborough Lab for sample(s): 25-32 Batch: WG1614689-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/11/22 14:30	03/15/22 20:38	1,7196A	NL

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 37 Batch: WG1611139-2								
Chromium, Hexavalent	101		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 08,11 Batch: WG1613528-2 WG1613528-3								
Cyanide, Total	**53**	Q	**60**	Q	80-120	19		35
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1613626-2 WG1613626-3								
Cyanide, Total	88		80		80-120	16		35
General Chemistry - Westborough Lab Associated sample(s): 05-07,09-10,12 Batch: WG1614045-2 WG1614045-3								
Cyanide, Total	**68**	Q	**79**	Q	80-120	9		35
General Chemistry - Westborough Lab Associated sample(s): 20-28,30 Batch: WG1614159-2 WG1614159-3								
Cyanide, Total	81		**69**	Q	80-120	19		35
General Chemistry - Westborough Lab Associated sample(s): 13-19,29,31-32 Batch: WG1614163-2 WG1614163-3								
Cyanide, Total	81		**69**	Q	80-120	19		35
General Chemistry - Westborough Lab Associated sample(s): 37 Batch: WG1614537-2 WG1614537-3								
Cyanide, Total	90		90		85-115	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1614684-2					
Chromium, Hexavalent	96	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 09-16 Batch: WG1614687-2					
Chromium, Hexavalent	96	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 17-24 Batch: WG1614688-2					
Chromium, Hexavalent	111	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 25-32 Batch: WG1614689-2					
Chromium, Hexavalent	111	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

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): 37 QC Batch ID: WG1611139-4 QC Sample: L2210848-37 Client ID: EQUIPMENT BLANK												
Chromium, Hexavalent	ND	0.1	0.100	100		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 08,11 QC Batch ID: WG1613528-4 WG1613528-5 QC Sample: L2211559-07 Client ID: MS Sample												
Cyanide, Total	ND	10	23	**220**	Q	5.8	**59**	Q	75-125	**119**	Q	35
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1613626-4 WG1613626-5 QC Sample: L2210848-01 Client ID: SB010 0-2												
Cyanide, Total	ND	10	11	110		11	110		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 05-07,09-10,12 QC Batch ID: WG1614045-4 WG1614045-5 QC Sample: L2210848-09 Client ID: SB008 0-2												
Cyanide, Total	ND	10	12	120		11	110		75-125	9		35
General Chemistry - Westborough Lab Associated sample(s): 20-28,30 QC Batch ID: WG1614159-4 WG1614159-5 QC Sample: L2210848-30 Client ID: SB002 2-4												
Cyanide, Total	0.81J	11	11	96		11	90		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 13-19,29,31-32 QC Batch ID: WG1614163-4 WG1614163-5 QC Sample: L2210848-16 Client ID: SB005 8-10												
Cyanide, Total	ND	11	8.1	75		9.4	87		75-125	15		35
General Chemistry - Westborough Lab Associated sample(s): 37 QC Batch ID: WG1614537-4 WG1614537-5 QC Sample: L2210869-01 Client ID: MS Sample												
Cyanide, Total	0.010	0.2	0.182	86		0.165	**77**	Q	80-120	10		20
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1614684-4 WG1614684-5 QC Sample: L2210848-01 Client ID: SB010 0-2												
Chromium, Hexavalent	0.173J	1740	1450	84		1360	78		75-125	6		20

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 09-16 QC Batch ID: WG1614687-4 WG1614687-5 QC Sample: L2210848-09 Client ID: SB008 0-2									
Chromium, Hexavalent	ND	991	1060	107	1110	106	75-125	5	20
General Chemistry - Westborough Lab Associated sample(s): 17-24 QC Batch ID: WG1614688-4 QC Sample: L2210848-23 Client ID: SB011 18-20									
Chromium, Hexavalent	ND	1230	1200	97	-	-	75-125	-	20
General Chemistry - Westborough Lab Associated sample(s): 25-32 QC Batch ID: WG1614689-4 QC Sample: L2210848-27 Client ID: SB003 9-11									
Chromium, Hexavalent	1.37	1490	1500	101	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG1611084-1 QC Sample: L2210848-09 Client ID: SB008 0-2						
Solids, Total	91.5	91.4	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 21-35 QC Batch ID: WG1611088-1 QC Sample: L2210848-21 Client ID: SB011 0-2						
Solids, Total	87.8	88.2	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 37 QC Batch ID: WG1611139-3 QC Sample: L2210848-37 Client ID: EQUIPMENT BLANK						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1614684-8 QC Sample: L2210848-01 Client ID: SB010 0-2						
Chromium, Hexavalent	0.173J	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 09-16 QC Batch ID: WG1614687-8 QC Sample: L2210848-09 Client ID: SB008 0-2						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 17-24 QC Batch ID: WG1614688-6 QC Sample: L2210848-23 Client ID: SB011 18-20						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 25-32 QC Batch ID: WG1614689-6 QC Sample: L2210848-27 Client ID: SB003 9-11						
Chromium, Hexavalent	1.37	0.739J	mg/kg	NC		20

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent
E	Absent
F	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210848-01A	Vial MeOH preserved	E	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2210848-01A1	Vial MeOH preserved	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L2210848-01A2	Vial MeOH preserved	E	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2210848-01B	Vial water preserved	E	NA		3.9	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-01B1	Vial water preserved	B	NA		3.8	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-01B2	Vial water preserved	E	NA		3.9	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-01C	Vial water preserved	E	NA		3.9	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-01C1	Vial water preserved	B	NA		3.8	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-01C2	Vial water preserved	E	NA		3.9	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-01D	Metals Only-Glass 60mL/2oz unpreserved	E	NA		3.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2210848-01D1	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)

*Values in parentheses indicate holding time in days

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210848-01D2	Metals Only-Glass 60mL/2oz unpreserved	E	NA		3.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2210848-01E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-01E1	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-01E2	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-01F	Plastic 120ml unpreserved	E	NA		3.9	Y	Absent		TS(7)
L2210848-01F1	Plastic 120ml unpreserved	B	NA		3.8	Y	Absent		TS(7)
L2210848-01F2	Plastic 120ml unpreserved	E	NA		3.9	Y	Absent		TS(7)
L2210848-01G	Glass 120ml/4oz unpreserved	E	NA		3.9	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-01G1	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-01G2	Glass 120ml/4oz unpreserved	E	NA		3.9	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-01H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-01H1	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-01H2	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-01J	Glass 500ml/16oz unpreserved	E	NA		3.9	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-01J1	Glass 500ml/16oz unpreserved	B	NA		3.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-01J2	Glass 500ml/16oz unpreserved	E	NA		3.9	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-02A	Vial MeOH preserved	E	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2210848-02B	Vial water preserved	E	NA		3.9	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-02C	Vial water preserved	E	NA		3.9	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210848-02D	Metals Only-Glass 60mL/2oz unpreserved	E	NA		3.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),MG-TI(180),FE-TI(180),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2210848-02E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-02F	Plastic 120ml unpreserved	E	NA		3.9	Y	Absent		TS(7)
L2210848-02G	Glass 120ml/4oz unpreserved	E	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-02H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-02J	Glass 500ml/16oz unpreserved	E	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-03A	Vial MeOH preserved	E	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2210848-03B	Vial water preserved	E	NA		3.9	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-03C	Vial water preserved	E	NA		3.9	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-03D	Metals Only-Glass 60mL/2oz unpreserved	E	NA		3.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2210848-03E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-03F	Plastic 120ml unpreserved	E	NA		3.9	Y	Absent		TS(7)
L2210848-03G	Glass 120ml/4oz unpreserved	E	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-03H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-03J	Glass 500ml/16oz unpreserved	E	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-04A	Vial MeOH preserved	E	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2210848-04B	Vial water preserved	E	NA		3.9	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-04C	Vial water preserved	E	NA		3.9	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210848-04D	Metals Only-Glass 60mL/2oz unpreserved	E	NA		3.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2210848-04E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-04F	Plastic 120ml unpreserved	E	NA		3.9	Y	Absent		TS(7)
L2210848-04G	Glass 120ml/4oz unpreserved	E	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-04H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-04J	Glass 500ml/16oz unpreserved	E	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-05A	Vial MeOH preserved	E	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2210848-05B	Vial water preserved	E	NA		3.9	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-05C	Vial water preserved	E	NA		3.9	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-05D	Metals Only-Glass 60mL/2oz unpreserved	E	NA		3.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2210848-05E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-05F	Plastic 120ml unpreserved	E	NA		3.9	Y	Absent		TS(7)
L2210848-05G	Glass 120ml/4oz unpreserved	E	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-05H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-05J	Glass 500ml/16oz unpreserved	E	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-06A	Vial MeOH preserved	E	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2210848-06B	Vial water preserved	E	NA		3.9	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-06C	Vial water preserved	E	NA		3.9	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210848-06D	Metals Only-Glass 60mL/2oz unpreserved	E	NA		3.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),HG-T(28),FE-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2210848-06E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-06F	Plastic 120ml unpreserved	E	NA		3.9	Y	Absent		TS(7)
L2210848-06G	Glass 120ml/4oz unpreserved	E	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-06H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-06J	Glass 500ml/16oz unpreserved	E	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-07A	Vial MeOH preserved	E	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2210848-07B	Vial water preserved	E	NA		3.9	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-07C	Vial water preserved	E	NA		3.9	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-07D	Metals Only-Glass 60mL/2oz unpreserved	E	NA		3.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MG-TI(180),HG-T(28),FE-TI(180),MN-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2210848-07E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-07F	Plastic 120ml unpreserved	E	NA		3.9	Y	Absent		TS(7)
L2210848-07G	Glass 120ml/4oz unpreserved	E	NA		3.9	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-07H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-07J	Glass 500ml/16oz unpreserved	E	NA		3.9	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-08A	Vial MeOH preserved	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2210848-08B	Vial water preserved	A	NA		5.4	Y	Absent	**03-MAR-22 03:44**	NYTCL-8260HLW(14)
L2210848-08C	Vial water preserved	A	NA		5.4	Y	Absent	**03-MAR-22 03:44**	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210848-08D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),NA-TI(180),CD-TI(180),CA-TI(180),K-TI(180)
L2210848-08E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-08F	Plastic 120ml unpreserved	A	NA		5.4	Y	Absent		TS(7)
L2210848-08G	Glass 120ml/4oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-08H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-08J	Glass 500ml/16oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-09A	Vial MeOH preserved	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2210848-09A1	Vial MeOH preserved	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2210848-09A2	Vial MeOH preserved	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2210848-09B	Vial water preserved	A	NA		5.4	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-09B1	Vial water preserved	A	NA		5.4	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-09B2	Vial water preserved	A	NA		5.4	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-09C	Vial water preserved	A	NA		5.4	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-09C1	Vial water preserved	A	NA		5.4	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-09C2	Vial water preserved	A	NA		5.4	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-09D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NA-TI(180),CD-TI(180),CA-TI(180),K-TI(180)
L2210848-09D1	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NA-TI(180),CD-TI(180),CA-TI(180),K-TI(180)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210848-09D2	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NA-TI(180),CD-TI(180),CA-TI(180),K-TI(180)
L2210848-09E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-09E1	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-09E2	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-09F	Plastic 120ml unpreserved	A	NA		5.4	Y	Absent		TS(7)
L2210848-09F1	Plastic 120ml unpreserved	A	NA		5.4	Y	Absent		TS(7)
L2210848-09F2	Plastic 120ml unpreserved	A	NA		5.4	Y	Absent		TS(7)
L2210848-09G	Glass 120ml/4oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-09G1	Glass 120ml/4oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-09G2	Glass 120ml/4oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-09H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-09H1	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-09H2	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-09J	Glass 500ml/16oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-09J1	Glass 500ml/16oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-09J2	Glass 500ml/16oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-10A	Vial MeOH preserved	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2210848-10B	Vial water preserved	A	NA		5.4	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-10C	Vial water preserved	A	NA		5.4	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210848-10D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),NA-TI(180),K-TI(180),CA-TI(180),CD-TI(180)
L2210848-10E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-10F	Plastic 120ml unpreserved	A	NA		5.4	Y	Absent		TS(7)
L2210848-10G	Glass 120ml/4oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-10H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-10J	Glass 500ml/16oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-11A	Vial MeOH preserved	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2210848-11B	Vial water preserved	A	NA		5.4	Y	Absent	**03-MAR-22 03:44**	NYTCL-8260HLW(14)
L2210848-11C	Vial water preserved	A	NA		5.4	Y	Absent	**03-MAR-22 03:44**	NYTCL-8260HLW(14)
L2210848-11D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2210848-11E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-11F	Plastic 120ml unpreserved	A	NA		5.4	Y	Absent		TS(7)
L2210848-11G	Glass 120ml/4oz unpreserved	A	NA		5.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-11H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-11J	Glass 500ml/16oz unpreserved	A	NA		5.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-12A	Vial MeOH preserved	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2210848-12B	Vial water preserved	A	NA		5.4	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-12C	Vial water preserved	A	NA		5.4	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

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Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210848-12D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),NA-TI(180),K-TI(180),CD-TI(180),CA-TI(180)
L2210848-12E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-12F	Plastic 120ml unpreserved	A	NA		5.4	Y	Absent		TS(7)
L2210848-12G	Glass 120ml/4oz unpreserved	A	NA		5.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-12H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-12J	Glass 500ml/16oz unpreserved	A	NA		5.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-13A	Vial MeOH preserved	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2210848-13B	Vial water preserved	A	NA		5.4	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-13C	Vial water preserved	A	NA		5.4	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-13D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),K-TI(180),CD-TI(180),NA-TI(180),CA-TI(180)
L2210848-13E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-13F	Plastic 120ml unpreserved	A	NA		5.4	Y	Absent		TS(7)
L2210848-13G	Glass 120ml/4oz unpreserved	A	NA		5.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-13H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-13J	Glass 500ml/16oz unpreserved	A	NA		5.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-14A	Vial MeOH preserved	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2210848-14B	Vial water preserved	A	NA		5.4	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-14C	Vial water preserved	A	NA		5.4	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210848-14D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),ZN-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2210848-14E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-14F	Plastic 120ml unpreserved	A	NA		5.4	Y	Absent		TS(7)
L2210848-14G	Glass 120ml/4oz unpreserved	A	NA		5.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-14H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-14J	Glass 500ml/16oz unpreserved	A	NA		5.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-15A	Vial MeOH preserved	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2210848-15B	Vial water preserved	A	NA		5.4	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-15C	Vial water preserved	A	NA		5.4	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-15D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2210848-15E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-15F	Plastic 120ml unpreserved	A	NA		5.4	Y	Absent		TS(7)
L2210848-15G	Glass 120ml/4oz unpreserved	A	NA		5.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-15H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-15J	Glass 500ml/16oz unpreserved	A	NA		5.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-16A	Vial MeOH preserved	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2210848-16B	Vial water preserved	A	NA		5.4	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-16C	Vial water preserved	A	NA		5.4	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210848-16D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2210848-16E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-16F	Plastic 120ml unpreserved	A	NA		5.4	Y	Absent		TS(7)
L2210848-16G	Glass 120ml/4oz unpreserved	A	NA		5.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-16H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-16J	Glass 500ml/16oz unpreserved	A	NA		5.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-17A	Vial MeOH preserved	D	NA		3.6	Y	Absent		NYTCL-8260HLW(14)
L2210848-17B	Vial water preserved	D	NA		3.6	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-17C	Vial water preserved	D	NA		3.6	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-17D	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2210848-17E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-17F	Plastic 120ml unpreserved	D	NA		3.6	Y	Absent		TS(7)
L2210848-17G	Glass 120ml/4oz unpreserved	D	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-17H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-17J	Glass 500ml/16oz unpreserved	D	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-18A	Vial MeOH preserved	D	NA		3.6	Y	Absent		NYTCL-8260HLW(14)
L2210848-18B	Vial water preserved	D	NA		3.6	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-18C	Vial water preserved	D	NA		3.6	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210848-18D	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2210848-18E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-18F	Plastic 120ml unpreserved	D	NA		3.6	Y	Absent		TS(7)
L2210848-18G	Glass 120ml/4oz unpreserved	D	NA		3.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-18H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-18J	Glass 500ml/16oz unpreserved	D	NA		3.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-19A	Vial MeOH preserved	D	NA		3.6	Y	Absent		NYTCL-8260HLW(14)
L2210848-19B	Vial water preserved	D	NA		3.6	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-19C	Vial water preserved	D	NA		3.6	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-19D	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),SE-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2210848-19E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-19F	Plastic 120ml unpreserved	D	NA		3.6	Y	Absent		TS(7)
L2210848-19G	Glass 120ml/4oz unpreserved	D	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-19H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-19J	Glass 500ml/16oz unpreserved	D	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-20A	Vial MeOH preserved	D	NA		3.6	Y	Absent		NYTCL-8260HLW(14)
L2210848-20B	Vial water preserved	D	NA		3.6	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-20C	Vial water preserved	D	NA		3.6	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210848-20D	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2210848-20E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-20F	Plastic 120ml unpreserved	D	NA		3.6	Y	Absent		TS(7)
L2210848-20G	Glass 120ml/4oz unpreserved	D	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-20H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-20J	Glass 500ml/16oz unpreserved	D	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-21A	Vial MeOH preserved	D	NA		3.6	Y	Absent		NYTCL-8260HLW(14)
L2210848-21B	Vial water preserved	D	NA		3.6	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-21C	Vial water preserved	D	NA		3.6	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-21D	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2210848-21E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-21F	Plastic 120ml unpreserved	D	NA		3.6	Y	Absent		TS(7)
L2210848-21G	Glass 120ml/4oz unpreserved	D	NA		3.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-21H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-21J	Glass 500ml/16oz unpreserved	D	NA		3.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-22A	Vial MeOH preserved	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L2210848-22B	Vial water preserved	B	NA		3.8	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-22C	Vial water preserved	B	NA		3.8	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210848-22D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),SE-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2210848-22E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-22F	Plastic 120ml unpreserved	B	NA		3.8	Y	Absent		TS(7)
L2210848-22G	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-22H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-22J	Glass 500ml/16oz unpreserved	B	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-23A	Vial MeOH preserved	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L2210848-23B	Vial water preserved	B	NA		3.8	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-23C	Vial water preserved	B	NA		3.8	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-23D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	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),ZN-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),NA-TI(180),K-TI(180),CA-TI(180),CD-TI(180)
L2210848-23E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-23F	Plastic 120ml unpreserved	B	NA		3.8	Y	Absent		TS(7)
L2210848-23G	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-23H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-23J	Glass 500ml/16oz unpreserved	B	NA		3.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-24A	Vial MeOH preserved	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L2210848-24B	Vial water preserved	B	NA		3.8	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-24C	Vial water preserved	B	NA		3.8	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210848-24D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),SB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2210848-24E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-24F	Plastic 120ml unpreserved	B	NA		3.8	Y	Absent		TS(7)
L2210848-24G	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-24H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-24J	Glass 500ml/16oz unpreserved	B	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-25A	Vial MeOH preserved	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L2210848-25B	Vial water preserved	B	NA		3.8	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-25C	Vial water preserved	B	NA		3.8	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-25D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MN-TI(180),MG-TI(180),HG-T(28),FE-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2210848-25E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-25F	Plastic 120ml unpreserved	B	NA		3.8	Y	Absent		TS(7)
L2210848-25G	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-25H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-25J	Glass 500ml/16oz unpreserved	B	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-26A	Vial MeOH preserved	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L2210848-26B	Vial water preserved	B	NA		3.8	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-26C	Vial water preserved	B	NA		3.8	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210848-26D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2210848-26E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-26F	Plastic 120ml unpreserved	B	NA		3.8	Y	Absent		TS(7)
L2210848-26G	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-26H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-26J	Glass 500ml/16oz unpreserved	B	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-27A	Vial MeOH preserved	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L2210848-27B	Vial water preserved	B	NA		3.8	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-27C	Vial water preserved	B	NA		3.8	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-27D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),SB-TI(180),CU-TI(180),V-TI(180),CO-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2210848-27E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-27F	Plastic 120ml unpreserved	B	NA		3.8	Y	Absent		TS(7)
L2210848-27G	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-27H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-27J	Glass 500ml/16oz unpreserved	B	NA		3.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-28A	Vial MeOH preserved	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L2210848-28B	Vial water preserved	B	NA		3.8	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-28C	Vial water preserved	B	NA		3.8	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210848-28D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),HG-T(28),FE-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2210848-28E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-28F	Plastic 120ml unpreserved	B	NA		3.8	Y	Absent		TS(7)
L2210848-28G	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-28H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-28J	Glass 500ml/16oz unpreserved	B	NA		3.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-29A	Vial MeOH preserved	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L2210848-29B	Vial water preserved	B	NA		3.8	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-29C	Vial water preserved	B	NA		3.8	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-29D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),HG-T(28),FE-TI(180),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)
L2210848-29E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-29F	Plastic 120ml unpreserved	B	NA		3.8	Y	Absent		TS(7)
L2210848-29G	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-29H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-29J	Glass 500ml/16oz unpreserved	B	NA		3.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-30A	Vial MeOH preserved	E	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2210848-30B	Vial water preserved	E	NA		3.9	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-30C	Vial water preserved	E	NA		3.9	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

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Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210848-30D	Metals Only-Glass 60mL/2oz unpreserved	E	NA		3.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2210848-30E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-30F	Plastic 120ml unpreserved	E	NA		3.9	Y	Absent		TS(7)
L2210848-30G	Glass 120ml/4oz unpreserved	E	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-30H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-30J	Glass 500ml/16oz unpreserved	E	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-31A	Vial MeOH preserved	E	NA		3.9	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2210848-31B	Vial water preserved	E	NA		3.9	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14),NYTCL-8260H(14)
L2210848-31C	Vial water preserved	E	NA		3.9	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14),NYTCL-8260H(14)
L2210848-31D	Metals Only-Glass 60mL/2oz unpreserved	E	NA		3.9	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),SB-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2210848-31E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-31F	Plastic 120ml unpreserved	E	NA		3.9	Y	Absent		TS(7)
L2210848-31G	Glass 120ml/4oz unpreserved	E	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-31H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-31J	Glass 500ml/16oz unpreserved	E	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-32A	Vial MeOH preserved	D	NA		3.6	Y	Absent		NYTCL-8260HLW(14)
L2210848-32B	Vial water preserved	D	NA		3.6	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)
L2210848-32C	Vial water preserved	D	NA		3.6	Y	Absent	03-MAR-22 03:44	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2210848
Report Date: 03/28/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210848-32D	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MN-TI(180),MG-TI(180),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2210848-32E	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-32F	Plastic 120ml unpreserved	D	NA		3.6	Y	Absent		TS(7)
L2210848-32G	Glass 120ml/4oz unpreserved	D	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-32H	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-32J	Glass 500ml/16oz unpreserved	D	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210848-33A	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-33B	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-34A	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-34B	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-35A	Plastic 2oz unpreserved for TS	C	NA		5.7	Y	Absent		TS(7)
L2210848-35B	Plastic 8oz unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-36A	Vial HCl preserved	F	NA		4.0	Y	Absent		NYTCL-8260(14)
L2210848-36B	Vial HCl preserved	F	NA		4.0	Y	Absent		NYTCL-8260(14)
L2210848-37A	Vial HCl preserved	F	NA		4.0	Y	Absent		NYTCL-8260(14)
L2210848-37B	Vial HCl preserved	F	NA		4.0	Y	Absent		NYTCL-8260(14)
L2210848-37C	Vial HCl preserved	F	NA		4.0	Y	Absent		NYTCL-8260(14)
L2210848-37D	Amber 120ml unpreserved	F	7	7	4.0	Y	Absent		NYTCL-8082-LVI(365)
L2210848-37E	Amber 120ml unpreserved	F	7	7	4.0	Y	Absent		NYTCL-8082-LVI(365)
L2210848-37F	Amber 120ml unpreserved	F	7	7	4.0	Y	Absent		NYTCL-8081(7)
L2210848-37G	Amber 120ml unpreserved	F	7	7	4.0	Y	Absent		NYTCL-8081(7)
L2210848-37H	Amber 250ml unpreserved	F	7	7	4.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2210848-37J	Amber 250ml unpreserved	F	7	7	4.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2210848-37K	Amber 250ml unpreserved	F	7	7	4.0	Y	Absent		A2-1,4-DIOXANE-SIM(7)

*Values in parentheses indicate holding time in days

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Lab Number: L2210848
Report Date: 03/28/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210848-37L	Amber 250ml unpreserved	F	7	7	4.0	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2210848-37M	Plastic 250ml NaOH preserved	F	>12	>12	4.0	Y	Absent		TCN-9010(14)
L2210848-37N	Plastic 250ml HNO3 preserved	F	<2	<2	4.0	Y	Absent		BA-6020T(180),FE-6020T(180),TL-6020T(180),SE-6020T(180),K-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),AL-6020T(180),HG-T(28),AG-6020T(180),CD-6020T(180),MG-6020T(180),CO-6020T(180)
L2210848-37O	Plastic 500ml unpreserved	F	7	7	4.0	Y	Absent		HEXCR-7196(1)
L2210848-37P	Amber 1000ml unpreserved	F	7	7	4.0	Y	Absent		HOLD-8151(7)
L2210848-37Q	Amber 1000ml unpreserved	F	7	7	4.0	Y	Absent		HOLD-8151(7)
L2210848-37R	Plastic 250ml unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2210848-38A	Plastic 250ml unpreserved	C	NA		5.7	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	TOT2101	**Lab Number:**	L2210848
Project Number:	TOT2101	**Report Date:**	03/28/22

GLOSSARY

Acronyms

DL - 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

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).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

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.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

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.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

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.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	TOT2101	**Lab Number:**	L2210848
Project Number:	TOT2101	**Report Date:**	03/28/22

Footnotes

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

Terms

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

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

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

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

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

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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.

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).

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

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:	TOT2101	**Lab Number:**	L2210848
Project Number:	TOT2101	**Report Date:**	03/28/22

Data Qualifiers

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.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	TOT2101	**Lab Number:**	L2210848
Project Number:	TOT2101	**Report Date:**	03/28/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

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

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

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 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
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: Chloride, 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, SM4500NO2-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: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **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 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, 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 4

Date Rec'd in Lab: 3/2/22

ALPHA Job #: L2210848

Client Information
Client: PWGE
Address: 630 Sunrise Hwy
Bohemia, NY 11716
Phone: (631) 589-6353
Fax:
Email: Jennifer.Lewis@pwgrosser.com

Project Information
Project Name: TOR101
Project Location: 737 4th Ave Brooklyn
Project #
(Use Project name as Project #) [X]
Project Manager: Jennifer Lewis
ALPHAQuote #: 178553

Turn-Around Time
Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables
[ ] ASP-A [X] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Billing Information
[X] 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 VOA+10 Tentatives	TCL SVOCs	TCL PCBs/Pests	TAL Metals + CN + TI/Hex Chromium	TOTAL Solids	PFAAs	Herbicides	Total Bottle	Sample Specific Comments
10848 -01	SB010 0-2	03/01/22	12:20	S	MP	X	X	X	X	X	X	X		
-02	SB008 12-14	03/01/22	15:10	S	MP	X	X	X	X	X	X	X		
-03	SB006 4-6	03/01/22	13:25	S	MP	X	X	X	X	X	X	X		
-04	SB006 3-4	03/01/22	13:15	S	MP	X	X	X	X	X	X	X		
-05	SB007 3-5	03/01/22	13:55	S	MP	X	X	X	X	X	X	X		
-06	SB007 7-9	03/01/22	14:00	S	MP	X	X	X	X	X	X	X		
-07	SB007 18-20	03/01/22	14:05	S	MP	X	X	X	X	X	X	X		
-08	DUP001	03/01/22		S	MP	X	X	X	X	X	X	X		
-09	SB008 0-2 MS/MSD	03/01/22	15:10	S	MP	X	X	X	X	X	X	X		
-09	SB008 0-2	03/01/22	15:10	S	MP	X	X	X	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
[illegible]	3/1/2022 10:00	[illegible]	3/2/22 10:00
[illegible]	3/2/22 13:00	[illegible] AAL	3/2 1800
[illegible] AAL	3/2 2200	[illegible]	3/2 2200
[illegible]	3/2	[illegible]	3/2/22 2200

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: 508-822-9288

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 2 of 4

Date Rec'd in Lab: 3/2/22

ALPHA Job #: L2210848

Client Information
Client: Pluse
Address: 630 Johnson Ave
Bohemia, NY 11716
Phone: (631) 589-6353
Fax:
Email: JenniferL@plugrosser.com

Project Information
Project Name: TO2101
Project Location: 737 4th Avenue, Brooklyn
Project #
(Use Project name as Project #) [X]
Project Manager: Jennifer Lewis
ALPHAQuote #: 17853

Turn-Around Time
Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables
[ ] ASP-A [X] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Billing Information
[X] 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 VOA+10 Tentatives	TCL SVOCs	TCL PCBs/PCBs	TAL metals + CN + Hex chromium	TCL+10 Tentatives	PFAAS	Herbicides	Total Bottle	Sample Specific Comments
10848 -10	SB005 6-8	03/01/22	15:05	S	MP	X	X	X	X	X	X	X		
-11	DUP002	03/01/22		S	MP	X	X	X	X	X	X	X		
-12	SB005 2-4	03/01/22	15:15	S	MP	X	X	X	X	X	X	X		
-13	SB005 0-2	03/01/22	17:20	S	MP	X	X	X	X	X	X	X		
-14	SB001 0-2	03/01/22	16:05	S	MP	X	X	X	X	X	X	X		
-15	SB001 4-6	03/01/22	16:10	S	MP	X	X	X	X	X	X	X		
-16	SB005 8-10	03/01/22	17:25	S	MP	X	X	X	X	X	X	X		
-17	SB002 6-8	03/01/22	15:45	S	MP	X	X	X	X	X	X	X		
-18	SB004 2-4	03/01/22	17:05	S	MP	X	X	X	X	X	X	X		
-19	SB003 18-20	03/01/22	16:05	S	MP	X	X	X	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
	3/1/2022 10:00		3/2/22 10:00
	3/2/22 13:00		3/2 1800
	3/2		

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)

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

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 3 of 4

Date Rec'd in Lab: 3/2/22

ALPHA Job #: L2210848

Client Information
Client: PWGC
Address: 630 Johnson Ave.
Bohemia, NY 11716
Phone: (631) 589-6353
Fax:
Email: JniferLo@pwgroup.com

Project Information
Project Name: TOT2101
Project Location: 737 4th Avenue, Brooklyn
Project #: TOT2101
(Use Project name as Project #) [X]
Project Manager: Jennifer Lewis
ALPHAQuote #: 17853

Turn-Around Time
Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables
[ ] ASP-A [X] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Billing Information
[X] 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	TCL SVOCs	TCL PCBs/Pesticides	TAL Metals + CN + Tri/Hex Chromium	Total Solids	PFAAs	Herbicides	Total Bottle	Sample Specific Comments
10848-20	SB003 15-17	03/01/22	12:30	S	MP	X	X	X	X	X	X	X		
-21	SB011 0-2	03/01/22	10:40	S	MP	X	X	X	X	X	X	X		
-22	SB003 3-5	03/01/22	11:05	S	MP	X	X	X	X	X	X	X		
-23	SB011 18-20	03/01/22	10:55	S	MP	X	X	X	X	X	X	X		
-01	SB010 0-2 MS/MSD	03/01/22	12:20	S	MP	X	X	X	X	X	X	X		
-24	SB011 6-8	03/01/22	10:45	S	MP	X	X	X	X	X	X	X		
-25	SB010 4-6	03/01/22	12:05	S	MP	X	X	X	X	X	X	X		
-26	SB010 8-10	03/01/22	12:10	S	MP	X	X	X	X	X	X	X		
-27	SB005 9-11	03/01/22	12:15	S	MP	X	X	X	X	X	X	X		
-28	SB003 20-22	03/01/22	12:40	S	MP	X	X	X	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
	3/2/2022 1100		
	3/2/22 13:20		3/2/22 1620
	3/2		3/2 1800
			3/2 2000

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 4 of 4

Date Rec'd in Lab: 3/2/22

ALPHA Job #: L2210848

Client Information
Client: Pulte
Address: 650 Johnson Ave.
Bohemia, NY 11716
Phone: (631) 554-6353
Fax:
Email: Jennifer.l@pulgrosser.com

Project Information
Project Name: TOT2101
Project Location: 737 4th Avenue, Brooklyn
Project #
(Use Project name as Project #) [X]
Project Manager: Jennifer Lewis
ALPHAQuote #: 17853

Turn-Around Time
Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables
[ ] ASP-A [X] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Billing Information
[X] 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	TCL SVOCs	TCL Pest/PCBs	TAL metals + CN + Tri/Hexchromium	Total Solids	PFAAs	Herbicides	Total Bottle	Sample Specific Comments
10848 -29	SB005 12-14	03/01/22	17:30	S	MP	X	X	X	X	X	X	X		
-30	SB002 2-4	03/01/22	15:25	S	MP	X	X	X	X	X	X	X		
-31	SB009 9-11	03/01/22	16:40	S	MP	X	X	X	X	X	X	X		
-32	SB009 3-5	03/01/22	16:30	S	MP	X	X	X	X	X	X	X		
-33	SB005 15-17	03/01/22	17:35	S	MP	X	X	X	X	X	X	X		
-34	SB009 5-7	03/01/22	16:35	S	MP	X	X	X	X	X	X	X		
-35	SB004 6-8	03/01/22	17:00	S	MP	X	X	X	X	X	X	X		
-36	TRIP Blank					X								
-37	Equipment Blank	03/01/22	18:10			X	X	X	X	X	X	X		
-38	Field Blank	03/01/22	15:20								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
	3/1/2022 10:00		3/2/22 10:00
Neal Perez AM2	3/2/22 13:00		3/2 7:00
D-LAAC	3/2		

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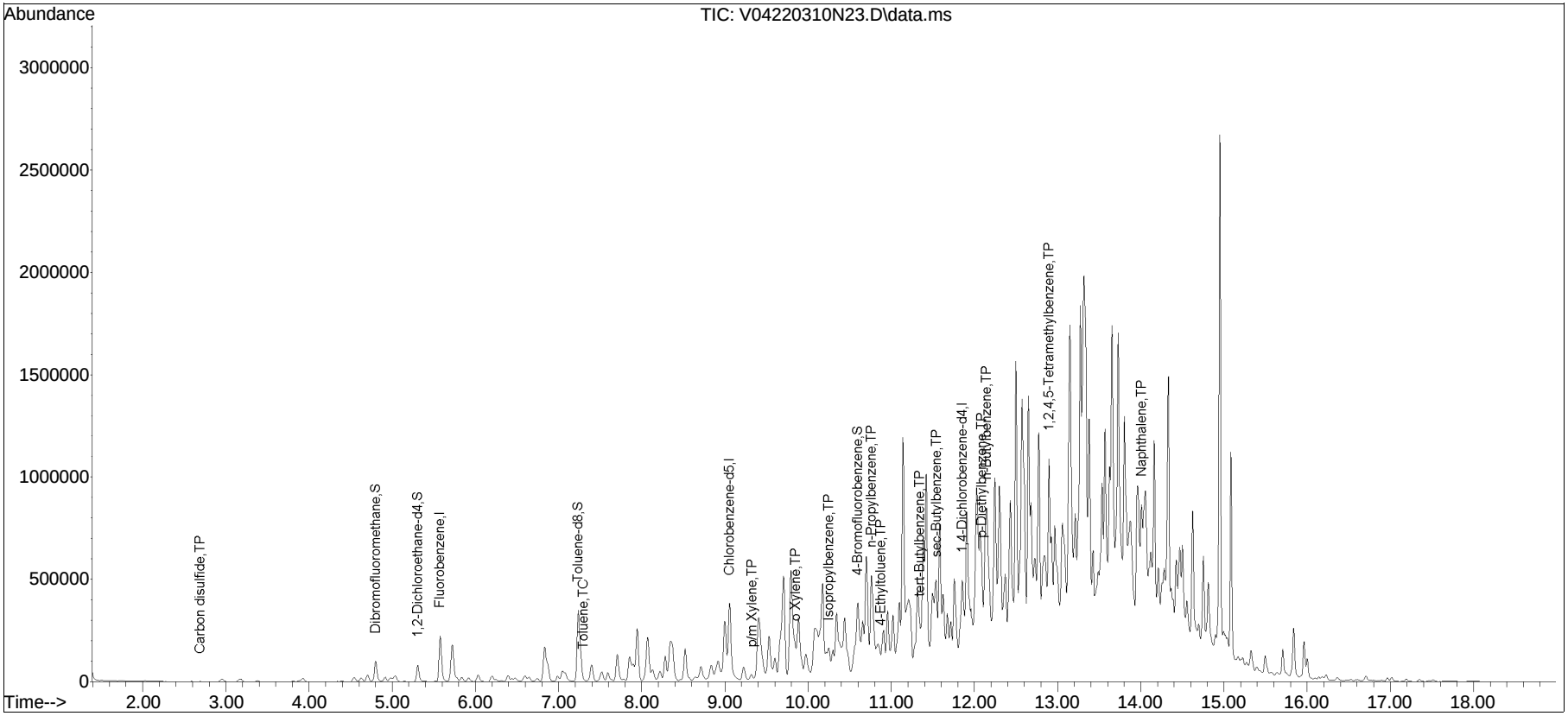
Form No: 01-25 HC (rev. 30-Sept-2013)

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2022\220310N\
Data File : V04220310N23.D
Acq On : 11 Mar 2022 3:34 am
Operator : VOA104:JC
Sample : L2210848-23D,31H,5.74,5,0.010,,A
Misc : WG1615246,ICAL18563
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 11 09:17:27 2022
Quant Method : I:\VOLATILES\VOA104\2022\220310N\V104_211214A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Dec 14 09:33:11 2021
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox20310N\V04220310N01.D•



ANALYTICAL REPORT

Lab Number:	L2211451
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Jennifer Lewis
Phone:	(631) 589-6353
Project Name:	TOT2101
Project Number:	TOT2101
Report Date:	03/25/22

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2211451
Report Date: 03/25/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2211451-01	SB005 15-17	SOIL	737 4TH AVE, BROOKLYN, NY	03/01/22 17:35	03/04/22
L2211451-02	SB007 5-7	SOIL	737 4TH AVE, BROOKLYN, NY	03/01/22 16:35	03/04/22
L2211451-03	SB004 6-8	SOIL	737 4TH AVE, BROOKLYN, NY	03/01/22 17:00	03/04/22

Project Name:	TOT2101	**Lab Number:**	L2211451
Project Number:	TOT2101	**Report Date:**	03/25/22

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name:	TOT2101	**Lab Number:**	L2211451
Project Number:	TOT2101	**Report Date:**	03/25/22

Case Narrative (continued)

Report Submission

March 25, 2022: This final report includes the results of all requested analyses.

March 22, 2022: This is a preliminary report.

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

Sample Receipt

The water-preserved VOA vials for Volatile Organics Low-Level analysis were received at the laboratory beyond the 48 hour holding time required for freezing. The client was notified and the results of the analysis are reported.

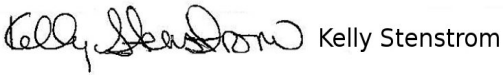
Total Metals

L2211451-01, -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.

Cyanide, Total

The WG1614164-2/-3 LCS/LCSD recoveries for cyanide, total (59%/77%), associated with L2211451-01 through -03, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses 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:  Kelly Stenstrom

Title: Technical Director/Representative Date: 03/25/22

ORGANICS

VOLATILES

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-01
Client ID: SB005 15-17
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/01/22 17:35
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 20:29
Analyst: JC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.3	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.87	0.13	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.87	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.87	0.11	1
Dibromochloromethane	ND		ug/kg	0.87	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.87	0.23	1
Tetrachloroethene	ND		ug/kg	0.43	0.17	1
Chlorobenzene	ND		ug/kg	0.43	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.5	0.60	1
1,2-Dichloroethane	ND		ug/kg	0.87	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.43	0.14	1
Bromodichloromethane	ND		ug/kg	0.43	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.87	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.43	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.43	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.43	0.14	1
Bromoform	ND		ug/kg	3.5	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.43	0.14	1
Benzene	ND		ug/kg	0.43	0.14	1
Toluene	ND		ug/kg	0.87	0.47	1
Ethylbenzene	ND		ug/kg	0.87	0.12	1
Chloromethane	ND		ug/kg	3.5	0.81	1
Bromomethane	ND		ug/kg	1.7	0.50	1
Vinyl chloride	ND		ug/kg	0.87	0.29	1
Chloroethane	ND		ug/kg	1.7	0.39	1
1,1-Dichloroethene	ND		ug/kg	0.87	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-01 Date Collected: 03/01/22 17:35

Client ID: SB005 15-17 Date Received: 03/04/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.43	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.49	1
o-Xylene	ND		ug/kg	0.87	0.25	1
Xylenes, Total	ND		ug/kg	0.87	0.25	1
cis-1,2-Dichloroethene	ND		ug/kg	0.87	0.15	1
1,2-Dichloroethene, Total	ND		ug/kg	0.87	0.12	1
Dibromomethane	ND		ug/kg	1.7	0.21	1
Styrene	ND		ug/kg	0.87	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.7	0.80	1
Acetone	ND		ug/kg	8.7	4.2	1
Carbon disulfide	ND		ug/kg	8.7	4.0	1
2-Butanone	ND		ug/kg	8.7	1.9	1
Vinyl acetate	ND		ug/kg	8.7	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.7	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	0.11	1
2-Hexanone	ND		ug/kg	8.7	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.18	1
2,2-Dichloropropane	ND		ug/kg	1.7	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.87	0.24	1
1,3-Dichloropropane	ND		ug/kg	1.7	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.43	0.11	1
Bromobenzene	ND		ug/kg	1.7	0.13	1
n-Butylbenzene	ND		ug/kg	0.87	0.14	1
sec-Butylbenzene	ND		ug/kg	0.87	0.13	1
tert-Butylbenzene	ND		ug/kg	1.7	0.10	1
o-Chlorotoluene	ND		ug/kg	1.7	0.16	1
p-Chlorotoluene	ND		ug/kg	1.7	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.87	1
Hexachlorobutadiene	ND		ug/kg	3.5	0.15	1
Isopropylbenzene	ND		ug/kg	0.87	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.87	0.10	1
Naphthalene	ND		ug/kg	3.5	0.56	1
Acrylonitrile	ND		ug/kg	3.5	1.0	1

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-01 Date Collected: 03/01/22 17:35

Client ID: SB005 15-17 Date Received: 03/04/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.87	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.29	1
1,4-Dioxane	ND		ug/kg	70	30.	1
p-Diethylbenzene	ND		ug/kg	1.7	0.15	1
p-Ethyltoluene	ND		ug/kg	1.7	0.33	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.7	0.16	1
Ethyl ether	ND		ug/kg	1.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.3	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	110		70-130

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-02
Client ID: SB007 5-7
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/01/22 16:35
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 20:54
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.0	3.2	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.1	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.32	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.37	1
Tetrachloroethene	ND		ug/kg	0.70	0.27	1
Chlorobenzene	ND		ug/kg	0.70	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.97	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.36	1
1,1,1-Trichloroethane	ND		ug/kg	0.70	0.23	1
Bromodichloromethane	ND		ug/kg	0.70	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.38	1
cis-1,3-Dichloropropene	ND		ug/kg	0.70	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.70	0.22	1
1,1-Dichloropropene	ND		ug/kg	0.70	0.22	1
Bromoform	ND		ug/kg	5.6	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.70	0.23	1
Benzene	ND		ug/kg	0.70	0.23	1
Toluene	ND		ug/kg	1.4	0.76	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.6	1.3	1
Bromomethane	ND		ug/kg	2.8	0.81	1
Vinyl chloride	ND		ug/kg	1.4	0.47	1
Chloroethane	ND		ug/kg	2.8	0.63	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.19	1

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-02 Date Collected: 03/01/22 16:35

Client ID: SB007 5-7 Date Received: 03/04/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.70	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.28	1
p/m-Xylene	ND		ug/kg	2.8	0.78	1
o-Xylene	ND		ug/kg	1.4	0.40	1
Xylenes, Total	ND		ug/kg	1.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.19	1
Dibromomethane	ND		ug/kg	2.8	0.33	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	11	J	ug/kg	14	6.7	1
Carbon disulfide	ND		ug/kg	14	6.3	1
2-Butanone	ND		ug/kg	14	3.1	1
Vinyl acetate	ND		ug/kg	14	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.8	0.18	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.8	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.8	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.39	1
1,3-Dichloropropane	ND		ug/kg	2.8	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.70	0.18	1
Bromobenzene	ND		ug/kg	2.8	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.8	0.16	1
o-Chlorotoluene	ND		ug/kg	2.8	0.27	1
p-Chlorotoluene	ND		ug/kg	2.8	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.24	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.6	0.90	1
Acrylonitrile	ND		ug/kg	5.6	1.6	1

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-02 Date Collected: 03/01/22 16:35

Client ID: SB007 5-7 Date Received: 03/04/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.45	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.38	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.27	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.46	1
1,4-Dioxane	ND		ug/kg	110	49.	1
p-Diethylbenzene	ND		ug/kg	2.8	0.25	1
p-Ethyltoluene	ND		ug/kg	2.8	0.53	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.8	0.27	1
Ethyl ether	ND		ug/kg	2.8	0.48	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.0	2.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	110		70-130

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-03
Client ID: SB004 6-8
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/01/22 17:00
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/10/22 21:19
Analyst: JC
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.53	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	ND		ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.0	0.58	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.99	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-03 Date Collected: 03/01/22 17:00

Client ID: SB004 6-8 Date Received: 03/04/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.53	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.31	1
Xylenes, Total	ND		ug/kg	1.0	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.21	1
Dichlorodifluoromethane	ND		ug/kg	10	0.97	1
Acetone	ND		ug/kg	10	5.1	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.4	1
Vinyl acetate	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.53	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.18	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.12	1
Naphthalene	ND		ug/kg	4.2	0.69	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-03 Date Collected: 03/01/22 17:00

Client ID: SB004 6-8 Date Received: 03/04/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	85	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.19	1
p-Ethyltoluene	ND		ug/kg	2.1	0.41	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.3	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	111		70-130

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/10/22 18:49
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1614496-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	1.0	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/10/22 18:49
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1614496-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/10/22 18:49
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1614496-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2211451
Report Date: 03/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1614496-3 WG1614496-4								
Methylene chloride	80		82		70-130	2		30
1,1-Dichloroethane	93		94		70-130	1		30
Chloroform	79		80		70-130	1		30
Carbon tetrachloride	93		94		70-130	1		30
1,2-Dichloropropane	99		99		70-130	0		30
Dibromochloromethane	89		88		70-130	1		30
1,1,2-Trichloroethane	84		83		70-130	1		30
Tetrachloroethene	92		93		70-130	1		30
Chlorobenzene	92		91		70-130	1		30
Trichlorofluoromethane	97		98		70-139	1		30
1,2-Dichloroethane	96		95		70-130	1		30
1,1,1-Trichloroethane	85		86		70-130	1		30
Bromodichloromethane	80		82		70-130	2		30
trans-1,3-Dichloropropene	90		90		70-130	0		30
cis-1,3-Dichloropropene	89		90		70-130	1		30
1,1-Dichloropropene	86		91		70-130	6		30
Bromoform	82		81		70-130	1		30
1,1,2,2-Tetrachloroethane	90		88		70-130	2		30
Benzene	83		85		70-130	2		30
Toluene	86		86		70-130	0		30
Ethylbenzene	88		88		70-130	0		30
Chloromethane	88		89		52-130	1		30
Bromomethane	105		102		57-147	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2211451
Report Date: 03/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1614496-3 WG1614496-4								
Vinyl chloride	88		91		67-130	3		30
Chloroethane	92		92		50-151	0		30
1,1-Dichloroethene	83		84		65-135	1		30
trans-1,2-Dichloroethene	82		84		70-130	2		30
Trichloroethene	86		86		70-130	0		30
1,2-Dichlorobenzene	96		96		70-130	0		30
1,3-Dichlorobenzene	98		97		70-130	1		30
1,4-Dichlorobenzene	97		97		70-130	0		30
Methyl tert butyl ether	82		81		66-130	1		30
p/m-Xylene	94		95		70-130	1		30
o-Xylene	91		91		70-130	0		30
cis-1,2-Dichloroethene	80		82		70-130	2		30
Dibromomethane	83		85		70-130	2		30
Styrene	89		88		70-130	1		30
Dichlorodifluoromethane	66		66		30-146	0		30
Acetone	95		98		54-140	3		30
Carbon disulfide	66		67		59-130	2		30
2-Butanone	92		97		70-130	5		30
Vinyl acetate	107		104		70-130	3		30
4-Methyl-2-pentanone	114		112		70-130	2		30
1,2,3-Trichloropropane	91		89		68-130	2		30
2-Hexanone	101		96		70-130	5		30
Bromochloromethane	86		86		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2211451
Report Date: 03/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1614496-3 WG1614496-4								
2,2-Dichloropropane	86		88		70-130	2		30
1,2-Dibromoethane	95		94		70-130	1		30
1,3-Dichloropropane	87		86		69-130	1		30
1,1,1,2-Tetrachloroethane	91		91		70-130	0		30
Bromobenzene	95		96		70-130	1		30
n-Butylbenzene	102		102		70-130	0		30
sec-Butylbenzene	103		104		70-130	1		30
tert-Butylbenzene	102		102		70-130	0		30
o-Chlorotoluene	96		98		70-130	2		30
p-Chlorotoluene	97		96		70-130	1		30
1,2-Dibromo-3-chloropropane	89		89		68-130	0		30
Hexachlorobutadiene	91		93		67-130	2		30
Isopropylbenzene	101		101		70-130	0		30
p-Isopropyltoluene	103		103		70-130	0		30
Naphthalene	95		94		70-130	1		30
Acrylonitrile	105		104		70-130	1		30
n-Propylbenzene	98		98		70-130	0		30
1,2,3-Trichlorobenzene	93		91		70-130	2		30
1,2,4-Trichlorobenzene	98		96		70-130	2		30
1,3,5-Trimethylbenzene	97		99		70-130	2		30
1,2,4-Trimethylbenzene	97		98		70-130	1		30
1,4-Dioxane	100		99		65-136	1		30
p-Diethylbenzene	102		102		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2211451

Report Date: 03/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1614496-3 WG1614496-4								
p-Ethyltoluene	102		102		70-130	0		30
1,2,4,5-Tetramethylbenzene	105		104		70-130	1		30
Ethyl ether	76		76		67-130	0		30
trans-1,4-Dichloro-2-butene	112		109		70-130	3		30

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

SEMIVOLATILES

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-01
Client ID: SB005 15-17
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/01/22 17:35
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/17/22 19:18
Analyst: EK
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	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	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	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	140	29.	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	140	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	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-01 Date Collected: 03/01/22 17:35

Client ID: SB005 15-17 Date Received: 03/04/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

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	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	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	75.	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	22.	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	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	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	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	28.	1

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-01 Date Collected: 03/01/22 17:35

Client ID: SB005 15-17 Date Received: 03/04/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	71		18-120

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-02
Client ID: SB007 5-7
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/01/22 16:35
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/20/22 16:25
Analyst: CMM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
1,2-Dichlorobenzene	ND		ug/kg	190	33.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	64.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	63.	1

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-02 Date Collected: 03/01/22 16:35

Client ID: SB007 5-7 Date Received: 03/04/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	19.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-02 Date Collected: 03/01/22 16:35

Client ID: SB007 5-7 Date Received: 03/04/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	93		10-136
4-Terphenyl-d14	67		18-120

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-03
Client ID: SB004 6-8
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/01/22 17:00
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/20/22 16:49
Analyst: CMM
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	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	35.	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	ND		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	220	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	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	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	68.	1

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-03 Date Collected: 03/01/22 17:00

Client ID: SB004 6-8 Date Received: 03/04/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	26.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	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	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	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	290	31.	1

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-03 Date Collected: 03/01/22 17:00

Client ID: SB004 6-8 Date Received: 03/04/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	69		18-120

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/16/22 03:55
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 03/13/22 07:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1615016-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.
Hexachlorobenzene	ND		ug/kg	100	19.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	170	16.
1,2-Dichlorobenzene	ND		ug/kg	170	30.
1,3-Dichlorobenzene	ND		ug/kg	170	28.
1,4-Dichlorobenzene	ND		ug/kg	170	29.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	170	33.
2,6-Dinitrotoluene	ND		ug/kg	170	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachlorocyclopentadiene	ND		ug/kg	480	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	25.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	32.
Di-n-octylphthalate	ND		ug/kg	170	56.
Diethyl phthalate	ND		ug/kg	170	15.

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/16/22 03:55
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 03/13/22 07:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1615016-1					
Dimethyl phthalate	ND		ug/kg	170	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	27.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	22.
4-Chloroaniline	ND		ug/kg	170	30.
2-Nitroaniline	ND		ug/kg	170	32.
3-Nitroaniline	ND		ug/kg	170	31.
4-Nitroaniline	ND		ug/kg	170	69.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.
Acetophenone	ND		ug/kg	170	20.
2,4,6-Trichlorophenol	ND		ug/kg	100	32.
p-Chloro-m-cresol	ND		ug/kg	170	25.
2-Chlorophenol	ND		ug/kg	170	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	170	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/16/22 03:55
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 03/13/22 07:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1615016-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	170	51.
Carbazole	ND		ug/kg	170	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	68		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2211451
Report Date: 03/25/22

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: WG1615016-2 WG1615016-3								
Acenaphthene	87		76		31-137	13		50
1,2,4-Trichlorobenzene	84		75		38-107	11		50
Hexachlorobenzene	92		80		40-140	14		50
Bis(2-chloroethyl)ether	76		68		40-140	11		50
2-Chloronaphthalene	90		80		40-140	12		50
1,2-Dichlorobenzene	80		71		40-140	12		50
1,3-Dichlorobenzene	79		69		40-140	14		50
1,4-Dichlorobenzene	79		70		28-104	12		50
3,3'-Dichlorobenzidine	71		50		40-140	35		50
2,4-Dinitrotoluene	92		81		40-132	13		50
2,6-Dinitrotoluene	99		85		40-140	15		50
Fluoranthene	92		78		40-140	16		50
4-Chlorophenyl phenyl ether	92		79		40-140	15		50
4-Bromophenyl phenyl ether	96		83		40-140	15		50
Bis(2-chloroisopropyl)ether	49		44		40-140	11		50
Bis(2-chloroethoxy)methane	82		72		40-117	13		50
Hexachlorobutadiene	93		83		40-140	11		50
Hexachlorocyclopentadiene	98		88		40-140	11		50
Hexachloroethane	79		70		40-140	12		50
Isophorone	82		71		40-140	14		50
Naphthalene	85		76		40-140	11		50
Nitrobenzene	81		73		40-140	10		50
NDPA/DPA	92		80		36-157	14		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2211451
Report Date: 03/25/22

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: WG1615016-2 WG1615016-3								
n-Nitrosodi-n-propylamine	78		69		32-121	12		50
Bis(2-ethylhexyl)phthalate	94		82		40-140	14		50
Butyl benzyl phthalate	90		77		40-140	16		50
Di-n-butylphthalate	93		80		40-140	15		50
Di-n-octylphthalate	95		83		40-140	13		50
Diethyl phthalate	92		81		40-140	13		50
Dimethyl phthalate	94		80		40-140	16		50
Benzo(a)anthracene	89		78		40-140	13		50
Benzo(a)pyrene	100		86		40-140	15		50
Benzo(b)fluoranthene	88		75		40-140	16		50
Benzo(k)fluoranthene	93		80		40-140	15		50
Chrysene	90		79		40-140	13		50
Acenaphthylene	99		86		40-140	14		50
Anthracene	90		78		40-140	14		50
Benzo(ghi)perylene	92		80		40-140	14		50
Fluorene	91		80		40-140	13		50
Phenanthrene	90		77		40-140	16		50
Dibenzo(a,h)anthracene	90		78		40-140	14		50
Indeno(1,2,3-cd)pyrene	92		81		40-140	13		50
Pyrene	91		78		35-142	15		50
Biphenyl	91		79		37-127	14		50
4-Chloroaniline	78		62		40-140	23		50
2-Nitroaniline	98		85		47-134	14		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2211451
Report Date: 03/25/22

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: WG1615016-2 WG1615016-3								
3-Nitroaniline	81		55		26-129	38		50
4-Nitroaniline	86		73		41-125	16		50
Dibenzofuran	92		80		40-140	14		50
2-Methylnaphthalene	90		80		40-140	12		50
1,2,4,5-Tetrachlorobenzene	97		85		40-117	13		50
Acetophenone	81		72		14-144	12		50
2,4,6-Trichlorophenol	107		93		30-130	14		50
p-Chloro-m-cresol	100		86		26-103	15		50
2-Chlorophenol	85		75		25-102	13		50
2,4-Dichlorophenol	97		85		30-130	13		50
2,4-Dimethylphenol	95		78		30-130	20		50
2-Nitrophenol	86		76		30-130	12		50
4-Nitrophenol	89		81		11-114	9		50
2,4-Dinitrophenol	89		79		4-130	12		50
4,6-Dinitro-o-cresol	96		84		10-130	13		50
Pentachlorophenol	97		82		17-109	17		50
Phenol	89		78		26-90	13		50
2-Methylphenol	90		78		30-130.	14		50
3-Methylphenol/4-Methylphenol	92		79		30-130	15		50
2,4,5-Trichlorophenol	106		92		30-130	14		50
Benzoic Acid	85		60		10-110	34		50
Benzyl Alcohol	89		77		40-140	14		50
Carbazole	92		79		54-128	15		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2211451

Report Date: 03/25/22

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: WG1615016-2 WG1615016-3								
1,4-Dioxane	56		49		40-140	13		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	84		73		25-120
Phenol-d6	89		78		10-120
Nitrobenzene-d5	80		72		23-120
2-Fluorobiphenyl	93		81		30-120
2,4,6-Tribromophenol	99		86		10-136
4-Terphenyl-d14	84		72		18-120

PCBS

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-01
Client ID: SB005 15-17
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/01/22 17:35
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/18/22 20:05
Analyst: JWL
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/17/22 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/18/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/18/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.9	3.19	1	A
Aroclor 1221	ND		ug/kg	35.9	3.60	1	A
Aroclor 1232	ND		ug/kg	35.9	7.62	1	A
Aroclor 1242	ND		ug/kg	35.9	4.84	1	A
Aroclor 1248	ND		ug/kg	35.9	5.39	1	A
Aroclor 1254	ND		ug/kg	35.9	3.93	1	A
Aroclor 1260	ND		ug/kg	35.9	6.64	1	A
Aroclor 1262	ND		ug/kg	35.9	4.56	1	A
Aroclor 1268	ND		ug/kg	35.9	3.72	1	A
PCBs, Total	ND		ug/kg	35.9	3.19	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	96		30-150	B

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-02
Client ID: SB007 5-7
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/01/22 16:35
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/18/22 20:13
Analyst: JWL
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 03/17/22 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/18/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/18/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.6	3.34	1	A
Aroclor 1221	ND		ug/kg	37.6	3.76	1	A
Aroclor 1232	ND		ug/kg	37.6	7.97	1	A
Aroclor 1242	ND		ug/kg	37.6	5.06	1	A
Aroclor 1248	ND		ug/kg	37.6	5.64	1	A
Aroclor 1254	ND		ug/kg	37.6	4.11	1	A
Aroclor 1260	ND		ug/kg	37.6	6.94	1	A
Aroclor 1262	ND		ug/kg	37.6	4.77	1	A
Aroclor 1268	ND		ug/kg	37.6	3.89	1	A
PCBs, Total	ND		ug/kg	37.6	3.34	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-03
Client ID: SB004 6-8
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/01/22 17:00
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/18/22 20:21
Analyst: JWL
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 03/17/22 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/18/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/18/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.1	3.47	1	A
Aroclor 1221	ND		ug/kg	39.1	3.92	1	A
Aroclor 1232	ND		ug/kg	39.1	8.29	1	A
Aroclor 1242	ND		ug/kg	39.1	5.27	1	A
Aroclor 1248	ND		ug/kg	39.1	5.86	1	A
Aroclor 1254	ND		ug/kg	39.1	4.28	1	A
Aroclor 1260	ND		ug/kg	39.1	7.22	1	A
Aroclor 1262	ND		ug/kg	39.1	4.96	1	A
Aroclor 1268	ND		ug/kg	39.1	4.05	1	A
PCBs, Total	ND		ug/kg	39.1	3.47	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/18/22 22:21
Analyst: JWL

Extraction Method: EPA 3546
Extraction Date: 03/17/22 10:08
Cleanup Method: EPA 3665A
Cleanup Date: 03/18/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/18/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-03 Batch: WG1616757-1						
Aroclor 1016	ND		ug/kg	32.2	2.86	A
Aroclor 1221	ND		ug/kg	32.2	3.23	A
Aroclor 1232	ND		ug/kg	32.2	6.83	A
Aroclor 1242	ND		ug/kg	32.2	4.34	A
Aroclor 1248	ND		ug/kg	32.2	4.84	A
Aroclor 1254	ND		ug/kg	32.2	3.53	A
Aroclor 1260	ND		ug/kg	32.2	5.96	A
Aroclor 1262	ND		ug/kg	32.2	4.09	A
Aroclor 1268	ND		ug/kg	32.2	3.34	A
PCBs, Total	ND		ug/kg	32.2	2.86	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	70		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2211451

Report Date: 03/25/22

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: WG1616757-2 WG1616757-3									
Aroclor 1016	72		76		40-140	5		50	A
Aroclor 1260	65		69		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		76		30-150	A
Decachlorobiphenyl	64		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		84		30-150	B
Decachlorobiphenyl	67		71		30-150	B

PESTICIDES

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-01
Client ID: SB005 15-17
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/01/22 17:35
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 14:20
Analyst: JAW
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:06
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.67	0.328	1	A
Lindane	ND		ug/kg	0.697	0.311	1	A
Alpha-BHC	ND		ug/kg	0.697	0.198	1	A
Beta-BHC	ND		ug/kg	1.67	0.634	1	A
Heptachlor	ND		ug/kg	0.836	0.375	1	A
Aldrin	ND		ug/kg	1.67	0.589	1	A
Heptachlor epoxide	ND		ug/kg	3.14	0.941	1	A
Endrin	ND		ug/kg	0.697	0.286	1	A
Endrin aldehyde	ND		ug/kg	2.09	0.732	1	A
Endrin ketone	ND		ug/kg	1.67	0.431	1	A
Dieldrin	ND		ug/kg	1.04	0.523	1	A
4,4'-DDE	ND		ug/kg	1.67	0.387	1	A
4,4'-DDD	ND		ug/kg	1.67	0.596	1	A
4,4'-DDT	ND		ug/kg	3.14	1.34	1	A
Endosulfan I	ND		ug/kg	1.67	0.395	1	A
Endosulfan II	ND		ug/kg	1.67	0.559	1	A
Endosulfan sulfate	ND		ug/kg	0.697	0.332	1	A
Methoxychlor	ND		ug/kg	3.14	0.976	1	A
Toxaphene	ND		ug/kg	31.4	8.78	1	A
cis-Chlordane	ND		ug/kg	2.09	0.582	1	A
trans-Chlordane	ND		ug/kg	2.09	0.552	1	A
Chlordane	ND		ug/kg	13.9	5.54	1	A

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-01 Date Collected: 03/01/22 17:35

Client ID: SB005 15-17 Date Received: 03/04/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	37		30-150	A
Decachlorobiphenyl	32		30-150	A
2,4,5,6-Tetrachloro-m-xylene	48		30-150	B
Decachlorobiphenyl	35		30-150	B

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-01
Client ID: SB005 15-17
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/01/22 17:35
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/16/22 10:26
Analyst: EJL
Percent Solids: 91%
Methylation Date: 03/15/22 15:34

Extraction Method: EPA 8151A
Extraction Date: 03/14/22 08:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	181	11.4	1	A
2,4,5-T	ND		ug/kg	181	5.62	1	A
2,4,5-TP (Silvex)	ND		ug/kg	181	4.82	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	112		30-150	A
DCAA	104		30-150	B

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-02
Client ID: SB007 5-7
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/01/22 16:35
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 14:32
Analyst: JAW
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:06
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.76	0.344	1	A
Lindane	ND		ug/kg	0.732	0.327	1	A
Alpha-BHC	ND		ug/kg	0.732	0.208	1	A
Beta-BHC	ND		ug/kg	1.76	0.666	1	A
Heptachlor	ND		ug/kg	0.878	0.394	1	A
Aldrin	ND		ug/kg	1.76	0.618	1	A
Heptachlor epoxide	ND		ug/kg	3.29	0.988	1	A
Endrin	ND		ug/kg	0.732	0.300	1	A
Endrin aldehyde	ND		ug/kg	2.19	0.768	1	A
Endrin ketone	ND		ug/kg	1.76	0.452	1	A
Dieldrin	ND		ug/kg	1.10	0.549	1	A
4,4'-DDE	ND		ug/kg	1.76	0.406	1	A
4,4'-DDD	ND		ug/kg	1.76	0.626	1	A
4,4'-DDT	ND		ug/kg	3.29	1.41	1	A
Endosulfan I	ND		ug/kg	1.76	0.415	1	A
Endosulfan II	ND		ug/kg	1.76	0.587	1	A
Endosulfan sulfate	ND		ug/kg	0.732	0.348	1	A
Methoxychlor	ND		ug/kg	3.29	1.02	1	A
Toxaphene	ND		ug/kg	32.9	9.22	1	A
cis-Chlordane	ND		ug/kg	2.19	0.612	1	A
trans-Chlordane	ND		ug/kg	2.19	0.579	1	A
Chlordane	ND		ug/kg	14.6	5.82	1	A

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-02 Date Collected: 03/01/22 16:35

Client ID: SB007 5-7 Date Received: 03/04/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	46		30-150	A
Decachlorobiphenyl	44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-02
Client ID: SB007 5-7
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/01/22 16:35
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/16/22 10:44
Analyst: EJL
Percent Solids: 87%
Methylation Date: 03/15/22 15:34

Extraction Method: EPA 8151A
Extraction Date: 03/14/22 08:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	189	11.9	1	A
2,4,5-T	ND		ug/kg	189	5.86	1	A
2,4,5-TP (Silvex)	ND		ug/kg	189	5.03	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	99		30-150	A
DCAA	110		30-150	B

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-03
Client ID: SB004 6-8
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/01/22 17:00
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/14/22 14:44
Analyst: JAW
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:06
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.89	0.371	1	A
Lindane	ND		ug/kg	0.788	0.352	1	A
Alpha-BHC	ND		ug/kg	0.788	0.224	1	A
Beta-BHC	ND		ug/kg	1.89	0.718	1	A
Heptachlor	ND		ug/kg	0.946	0.424	1	A
Aldrin	ND		ug/kg	1.89	0.666	1	A
Heptachlor epoxide	ND		ug/kg	3.55	1.06	1	A
Endrin	ND		ug/kg	0.788	0.323	1	A
Endrin aldehyde	ND		ug/kg	2.36	0.828	1	A
Endrin ketone	ND		ug/kg	1.89	0.487	1	A
Dieldrin	ND		ug/kg	1.18	0.591	1	A
4,4'-DDE	ND		ug/kg	1.89	0.438	1	A
4,4'-DDD	ND		ug/kg	1.89	0.675	1	A
4,4'-DDT	ND		ug/kg	3.55	1.52	1	A
Endosulfan I	ND		ug/kg	1.89	0.447	1	A
Endosulfan II	ND		ug/kg	1.89	0.632	1	A
Endosulfan sulfate	ND		ug/kg	0.788	0.375	1	A
Methoxychlor	ND		ug/kg	3.55	1.10	1	A
Toxaphene	ND		ug/kg	35.5	9.94	1	A
cis-Chlordane	ND		ug/kg	2.36	0.659	1	A
trans-Chlordane	ND		ug/kg	2.36	0.624	1	A
Chlordane	ND		ug/kg	15.8	6.27	1	A

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-03 Date Collected: 03/01/22 17:00

Client ID: SB004 6-8 Date Received: 03/04/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		30-150	A
Decachlorobiphenyl	43		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	48		30-150	B

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-03
Client ID: SB004 6-8
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/01/22 17:00
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/16/22 11:02
Analyst: EJL
Percent Solids: 83%
Methylation Date: 03/15/22 11:57

Extraction Method: EPA 8151A
Extraction Date: 03/14/22 08:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	197	12.4	1	A
2,4,5-T	ND		ug/kg	197	6.11	1	A
2,4,5-TP (Silvex)	ND		ug/kg	197	5.24	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	117		30-150	A
DCAA	103		30-150	B

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/14/22 10:56
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:00
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1615018-1						
Delta-BHC	ND		ug/kg	1.60	0.312	A
Lindane	ND		ug/kg	0.665	0.297	A
Alpha-BHC	ND		ug/kg	0.665	0.189	A
Beta-BHC	ND		ug/kg	1.60	0.605	A
Heptachlor	ND		ug/kg	0.798	0.358	A
Aldrin	ND		ug/kg	1.60	0.562	A
Heptachlor epoxide	ND		ug/kg	2.99	0.898	A
Endrin	ND		ug/kg	0.665	0.273	A
Endrin aldehyde	ND		ug/kg	1.99	0.698	A
Endrin ketone	ND		ug/kg	1.60	0.411	A
Dieldrin	ND		ug/kg	0.997	0.499	A
4,4'-DDE	ND		ug/kg	1.60	0.369	A
4,4'-DDD	ND		ug/kg	1.60	0.569	A
4,4'-DDT	ND		ug/kg	2.99	1.28	A
Endosulfan I	ND		ug/kg	1.60	0.377	A
Endosulfan II	ND		ug/kg	1.60	0.533	A
Endosulfan sulfate	ND		ug/kg	0.665	0.316	A
Methoxychlor	ND		ug/kg	2.99	0.931	A
Toxaphene	ND		ug/kg	29.9	8.38	A
cis-Chlordane	ND		ug/kg	1.99	0.556	A
trans-Chlordane	ND		ug/kg	1.99	0.526	A
Chlordane	ND		ug/kg	13.3	5.28	A

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/14/22 10:56
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 03/13/22 08:00
Cleanup Method: EPA 3620B
Cleanup Date: 03/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1615018-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 03/16/22 07:59
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 03/14/22 08:20

Methylation Date: 03/15/22 11:57

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1615224-1						
2,4-D	ND		ug/kg	165	10.4	A
2,4,5-T	ND		ug/kg	165	5.11	A
2,4,5-TP (Silvex)	ND		ug/kg	165	4.39	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	107		30-150	A
DCAA	89		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2211451

Report Date: 03/25/22

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: WG1615018-2 WG1615018-3									
Delta-BHC	38		35		30-150	8		30	A
Lindane	81		68		30-150	17		30	A
Alpha-BHC	74		61		30-150	19		30	A
Beta-BHC	84		73		30-150	14		30	A
Heptachlor	96		78		30-150	21		30	A
Aldrin	77		63		30-150	20		30	A
Heptachlor epoxide	65		55		30-150	17		30	A
Endrin	90		75		30-150	18		30	A
Endrin aldehyde	64		49		30-150	27		30	A
Endrin ketone	80		65		30-150	21		30	A
Dieldrin	87		70		30-150	22		30	A
4,4'-DDE	84		69		30-150	20		30	A
4,4'-DDD	86		70		30-150	21		30	A
4,4'-DDT	94		77		30-150	20		30	A
Endosulfan I	84		68		30-150	21		30	A
Endosulfan II	91		74		30-150	21		30	A
Endosulfan sulfate	50		50		30-150	0		30	A
Methoxychlor	76		68		30-150	11		30	A
cis-Chlordane	73		60		30-150	20		30	A
trans-Chlordane	90		73		30-150	21		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2211451
Report Date: 03/25/22

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: WG1615018-2 WG1615018-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		55		30-150	A
Decachlorobiphenyl	70		53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	95		73		30-150	B
Decachlorobiphenyl	90		73		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2211451

Report Date: 03/25/22

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: WG1615224-2 WG1615224-3									
2,4-D	91		97		30-150	6		30	A
2,4,5-T	95		101		30-150	6		30	A
2,4,5-TP (Silvex)	97		103		30-150	6		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	106		111		30-150	A
DCAA	97		107		30-150	B

METALS

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-01 Date Collected: 03/01/22 17:35

Client ID: SB005 15-17 Date Received: 03/04/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5040		mg/kg	8.39	2.26	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
Antimony, Total	ND		mg/kg	4.19	0.319	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
Arsenic, Total	2.42		mg/kg	0.839	0.174	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
Barium, Total	38.0		mg/kg	0.839	0.146	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
Beryllium, Total	0.294	J	mg/kg	0.419	0.028	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
Cadmium, Total	0.117	J	mg/kg	0.839	0.082	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
Calcium, Total	1230		mg/kg	8.39	2.94	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
Chromium, Total	12.4		mg/kg	0.839	0.081	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
Cobalt, Total	5.51		mg/kg	1.68	0.139	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
Copper, Total	12.7		mg/kg	0.839	0.216	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
Iron, Total	10700		mg/kg	4.19	0.757	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
Lead, Total	5.51		mg/kg	4.19	0.225	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
Magnesium, Total	2170		mg/kg	8.39	1.29	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
Manganese, Total	202		mg/kg	0.839	0.133	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
Mercury, Total	ND		mg/kg	0.072	0.047	1	03/15/22 11:37	03/19/22 15:17	EPA 7471B	1,7471B	ZK
Nickel, Total	12.8		mg/kg	2.10	0.203	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
Potassium, Total	1160		mg/kg	210	12.1	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
Selenium, Total	ND		mg/kg	1.68	0.216	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.839	0.237	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
Sodium, Total	131	J	mg/kg	168	2.64	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.68	0.264	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
Vanadium, Total	18.3		mg/kg	0.839	0.170	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
Zinc, Total	27.2		mg/kg	4.19	0.246	2	03/15/22 11:20	03/25/22 15:08	EPA 3050B	1,6010D	MC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12	J	mg/kg	0.88	0.88	1		03/25/22 15:08	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-02 Date Collected: 03/01/22 16:35

Client ID: SB007 5-7 Date Received: 03/04/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4540		mg/kg	8.76	2.37	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
Antimony, Total	ND		mg/kg	4.38	0.333	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
Arsenic, Total	3.14		mg/kg	0.876	0.182	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
Barium, Total	19.7		mg/kg	0.876	0.152	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
Beryllium, Total	0.289	J	mg/kg	0.438	0.029	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
Cadmium, Total	0.114	J	mg/kg	0.876	0.086	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
Calcium, Total	1410		mg/kg	8.76	3.07	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
Chromium, Total	7.80		mg/kg	0.876	0.084	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
Cobalt, Total	4.30		mg/kg	1.75	0.145	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
Copper, Total	8.04		mg/kg	0.876	0.226	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
Iron, Total	9650		mg/kg	4.38	0.791	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
Lead, Total	8.59		mg/kg	4.38	0.235	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
Magnesium, Total	1670		mg/kg	8.76	1.35	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
Manganese, Total	279		mg/kg	0.876	0.139	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
Mercury, Total	ND		mg/kg	0.081	0.053	1	03/15/22 11:37	03/19/22 15:21	EPA 7471B	1,7471B	ZK
Nickel, Total	8.16		mg/kg	2.19	0.212	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
Potassium, Total	387		mg/kg	219	12.6	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
Selenium, Total	ND		mg/kg	1.75	0.226	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.876	0.248	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
Sodium, Total	127	J	mg/kg	175	2.76	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.75	0.276	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
Vanadium, Total	12.6		mg/kg	0.876	0.178	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
Zinc, Total	24.8		mg/kg	4.38	0.257	2	03/15/22 11:20	03/25/22 15:59	EPA 3050B	1,6010D	MC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.8		mg/kg	0.92	0.92	1		03/25/22 15:59	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-03 Date Collected: 03/01/22 17:00

Client ID: SB004 6-8 Date Received: 03/04/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9480		mg/kg	9.12	2.46	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
Antimony, Total	ND		mg/kg	4.56	0.347	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
Arsenic, Total	4.59		mg/kg	0.912	0.190	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
Barium, Total	32.5		mg/kg	0.912	0.159	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
Beryllium, Total	0.410	J	mg/kg	0.456	0.030	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
Cadmium, Total	0.109	J	mg/kg	0.912	0.089	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
Calcium, Total	698		mg/kg	9.12	3.19	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
Chromium, Total	13.7		mg/kg	0.912	0.088	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
Cobalt, Total	6.98		mg/kg	1.82	0.151	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
Copper, Total	6.09		mg/kg	0.912	0.235	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
Iron, Total	15700		mg/kg	4.56	0.824	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
Lead, Total	7.64		mg/kg	4.56	0.244	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
Magnesium, Total	1710		mg/kg	9.12	1.40	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
Manganese, Total	224		mg/kg	0.912	0.145	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
Mercury, Total	ND		mg/kg	0.076	0.049	1	03/15/22 11:37	03/19/22 15:24	EPA 7471B	1,7471B	ZK
Nickel, Total	8.74		mg/kg	2.28	0.221	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
Potassium, Total	421		mg/kg	228	13.1	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
Selenium, Total	ND		mg/kg	1.82	0.235	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.912	0.258	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
Sodium, Total	291		mg/kg	182	2.87	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.82	0.287	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
Vanadium, Total	19.2		mg/kg	0.912	0.185	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
Zinc, Total	29.8		mg/kg	4.56	0.267	2	03/15/22 11:20	03/25/22 16:03	EPA 3050B	1,6010D	MC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	14		mg/kg	0.96	0.96	1		03/25/22 16:03	NA	107,-	

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

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: WG1615529-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/15/22 11:20	03/25/22 12:20	1,6010D	SV
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/15/22 11:20	03/25/22 12:20	1,6010D	SV
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/15/22 11:20	03/25/22 12:20	1,6010D	SV
Barium, Total	ND		mg/kg	0.400	0.070	1	03/15/22 11:20	03/25/22 12:20	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/15/22 11:20	03/25/22 12:20	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/15/22 11:20	03/25/22 12:20	1,6010D	SV
Calcium, Total	ND		mg/kg	4.00	1.40	1	03/15/22 11:20	03/25/22 12:20	1,6010D	SV
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/15/22 11:20	03/25/22 12:20	1,6010D	SV
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/15/22 11:20	03/25/22 12:20	1,6010D	SV
Copper, Total	ND		mg/kg	0.400	0.103	1	03/15/22 11:20	03/25/22 12:20	1,6010D	SV
Iron, Total	ND		mg/kg	2.00	0.361	1	03/15/22 11:20	03/25/22 14:27	1,6010D	MC
Lead, Total	ND		mg/kg	2.00	0.107	1	03/15/22 11:20	03/25/22 12:20	1,6010D	SV
Magnesium, Total	ND		mg/kg	4.00	0.616	1	03/15/22 11:20	03/25/22 12:20	1,6010D	SV
Manganese, Total	ND		mg/kg	0.400	0.064	1	03/15/22 11:20	03/25/22 12:20	1,6010D	SV
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/15/22 11:20	03/25/22 12:20	1,6010D	SV
Potassium, Total	ND		mg/kg	100	5.76	1	03/15/22 11:20	03/25/22 12:20	1,6010D	SV
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/15/22 11:20	03/25/22 12:20	1,6010D	SV
Silver, Total	ND		mg/kg	0.400	0.113	1	03/15/22 11:20	03/25/22 12:20	1,6010D	SV
Sodium, Total	ND		mg/kg	80.0	1.26	1	03/15/22 11:20	03/25/22 12:20	1,6010D	SV
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/15/22 11:20	03/25/22 12:20	1,6010D	SV
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/15/22 11:20	03/25/22 12:20	1,6010D	SV
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/15/22 11:20	03/25/22 12:20	1,6010D	SV

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): 01-03 Batch: WG1615530-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	03/15/22 11:37	03/19/22 14:47	1,7471B	ZK

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2211451
Report Date: 03/25/22

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2211451
Report Date: 03/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1615529-2 SRM Lot Number: D113-540								
Aluminum, Total	66		-		51-149	-		
Antimony, Total	128		-		20-250	-		
Arsenic, Total	93		-		70-130	-		
Barium, Total	86		-		75-125	-		
Beryllium, Total	97		-		75-125	-		
Cadmium, Total	95		-		75-125	-		
Calcium, Total	86		-		73-128	-		
Chromium, Total	88		-		70-130	-		
Cobalt, Total	91		-		75-125	-		
Copper, Total	86		-		75-125	-		
Iron, Total	79		-		36-164	-		
Lead, Total	88		-		72-128	-		
Magnesium, Total	80		-		63-138	-		
Manganese, Total	82		-		77-123	-		
Nickel, Total	90		-		70-130	-		
Potassium, Total	74		-		59-141	-		
Selenium, Total	92		-		66-134	-		
Silver, Total	88		-		70-131	-		
Sodium, Total	87		-		35-164	-		
Thallium, Total	91		-		70-130	-		
Vanadium, Total	84		-		74-126	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2211451

Report Date: 03/25/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1615529-2 SRM Lot Number: D113-540					
Zinc, Total	89	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1615530-2 SRM Lot Number: D113-540					
Mercury, Total	102	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2211451
Report Date: 03/25/22

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: WG1615529-3 QC Sample: L2211429-03 Client ID: MS Sample												
Aluminum, Total	3330	184	5220	**1020**	Q	-	-		75-125	-		20
Antimony, Total	9.39	46.1	41.2	**69**	Q	-	-		75-125	-		20
Arsenic, Total	49.8	11	110	**544**	Q	-	-		75-125	-		20
Barium, Total	37.4	184	193	84		-	-		75-125	-		20
Beryllium, Total	0.133J	4.61	3.70	80		-	-		75-125	-		20
Cadmium, Total	1.14	4.88	4.78	**74**	Q	-	-		75-125	-		20
Calcium, Total	1130	922	2270	124		-	-		75-125	-		20
Chromium, Total	33.3	18.4	46.2	**70**	Q	-	-		75-125	-		20
Cobalt, Total	11.6	46.1	40.8	**63**	Q	-	-		75-125	-		20
Copper, Total	474	23	701	**985**	Q	-	-		75-125	-		20
Iron, Total	70600	92.2	71800	**1300**	Q	-	-		75-125	-		20
Lead, Total	218	48.8	253	**72**	Q	-	-		75-125	-		20
Magnesium, Total	410	922	1310	98		-	-		75-125	-		20
Manganese, Total	851	46.1	735	**0**	Q	-	-		75-125	-		20
Nickel, Total	35.2	46.1	55.5	**44**	Q	-	-		75-125	-		20
Potassium, Total	245	922	1190	102		-	-		75-125	-		20
Selenium, Total	ND	11	6.44	**58**	Q	-	-		75-125	-		20
Silver, Total	ND	27.6	25.8	93		-	-		75-125	-		20
Sodium, Total	67.3J	922	878	95		-	-		75-125	-		20
Thallium, Total	ND	11	6.68	**60**	Q	-	-		75-125	-		20
Vanadium, Total	43.2	46.1	88.7	99		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2211451
Report Date: 03/25/22

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: WG1615529-3 QC Sample: L2211429-03 Client ID: MS Sample										
Zinc, Total	153	46.1	231	**169**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1615530-3 QC Sample: L2211434-01 Client ID: MS Sample										
Mercury, Total	ND	0.521	0.673	**129**	Q	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2211451
Report Date: 03/25/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1615529-4 QC Sample: L2211429-03 Client ID: DUP Sample						
Lead, Total	218	112	mg/kg	**64**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1615530-4 QC Sample: L2211434-01 Client ID: DUP Sample						
Mercury, Total	ND	0.232J	mg/kg	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2211451
Report Date: 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-01
Client ID: SB005 15-17
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/01/22 17:35
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.6		%	0.100	NA	1	-	03/05/22 10:00	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	03/10/22 14:50	03/11/22 09:36	1,9010C/9012B	CS
Chromium, Hexavalent	0.320	J	mg/kg	0.883	0.177	1	03/17/22 09:20	03/18/22 10:50	1,7196A	PB

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2211451
Report Date: 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-02
Client ID: SB007 5-7
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/01/22 16:35
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.9		%	0.100	NA	1	-	03/05/22 10:00	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	03/10/22 14:50	03/11/22 09:37	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.920	0.184	1	03/17/22 09:20	03/18/22 10:50	1,7196A	PB

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2211451
Report Date: 03/25/22

SAMPLE RESULTS

Lab ID: L2211451-03
Client ID: SB004 6-8
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/01/22 17:00
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.1		%	0.100	NA	1	-	03/05/22 10:00	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	03/10/22 14:50	03/11/22 09:38	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.963	0.192	1	03/17/22 09:20	03/18/22 10:50	1,7196A	PB

Project Name: TOT2101 **Lab Number:** L2211451

Project Number: TOT2101 **Report Date:** 03/25/22

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: WG1614164-1										
Cyanide, Total	ND		mg/kg	0.91	0.19	1	03/10/22 14:50	03/11/22 09:31	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1616040-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/17/22 09:20	03/18/22 10:50	1,7196A	PB

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2211451

Report Date: 03/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1614164-2 WG1614164-3								
Cyanide, Total	**59**	Q	**77**	Q	80-120	23		35
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1616040-2								
Chromium, Hexavalent	91		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2211451
Report Date: 03/25/22

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: WG1614164-4 WG1614164-5 QC Sample: L2212139-01 Client ID: MS Sample												
Cyanide, Total	ND	11	11	100		9.0	86		75-125	20		35
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1616040-4 QC Sample: L2211451-02 Client ID: SB007 5-7												
Chromium, Hexavalent	ND	1160	1130	98		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2211451
Report Date: 03/25/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1612035-1 QC Sample: L2211494-01 Client ID: DUP Sample						
Solids, Total	88.5	89.2	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1616040-6 QC Sample: L2211451-02 Client ID: SB007 5-7						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2211451
Report Date: 03/25/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2211451-01A	Vial MeOH preserved	A	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2211451-01B	Vial water preserved	A	NA		2.6	Y	Absent	**05-MAR-22 02:50**	NYTCL-8260HLW(14)
L2211451-01C	Vial water preserved	A	NA		2.6	Y	Absent	**05-MAR-22 02:50**	NYTCL-8260HLW(14)
L2211451-01D	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L2211451-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),ZN-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2211451-01F	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2211451-01G	Glass 500ml/16oz unpreserved	A	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2211451-02A	Vial MeOH preserved	A	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2211451-02B	Vial water preserved	A	NA		2.6	Y	Absent	**05-MAR-22 02:50**	NYTCL-8260HLW(14)
L2211451-02C	Vial water preserved	A	NA		2.6	Y	Absent	**05-MAR-22 02:50**	NYTCL-8260HLW(14)
L2211451-02D	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L2211451-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),TRICR-CALC(30),AL-TI(180),NI-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MN-TI(180),MG-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2211451-02F	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2211451-02G	Glass 500ml/16oz unpreserved	A	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2211451
Report Date: 03/25/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2211451-03A	Vial MeOH preserved	A	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2211451-03B	Vial water preserved	A	NA		2.6	Y	Absent	**05-MAR-22 02:50**	NYTCL-8260HLW(14)
L2211451-03C	Vial water preserved	A	NA		2.6	Y	Absent	**05-MAR-22 02:50**	NYTCL-8260HLW(14)
L2211451-03D	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L2211451-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TRICR-CALC(30),TL-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MN-TI(180),MG-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2211451-03F	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2211451-03G	Glass 500ml/16oz unpreserved	A	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name:	TOT2101	**Lab Number:**	L2211451
Project Number:	TOT2101	**Report Date:**	03/25/22

GLOSSARY

Acronyms

DL - 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

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).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

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.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

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.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

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.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	TOT2101	**Lab Number:**	L2211451
Project Number:	TOT2101	**Report Date:**	03/25/22

Footnotes

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

Terms

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

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

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

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

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

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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.

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).

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

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:	TOT2101	**Lab Number:**	L2211451
Project Number:	TOT2101	**Report Date:**	03/25/22

Data Qualifiers

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.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	TOT2101	**Lab Number:**	L2211451
Project Number:	TOT2101	**Report Date:**	03/25/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
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: Chloride, 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, SM4500NO2-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: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **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 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, 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

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Mansfield, MA 02048
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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: 3/4/22

ALPHA Job #: L2211451

Client Information
Client: PW&L
Address: 630 Johnson Ave
Bohemia, NY 11716
Phone: 631-589-6353
Fax:
Email: jennifer@pwgrossen.com

Project Information
Project Name: TOT2101
Project Location: 737 4th ave, Brooklyn, NY
Project #: TOT2101
(Use Project name as Project #) ☐
Project Manager: Jennifer Lewis
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

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	TAL metals + Hexavalent/trivalent	TCL PCBs/Pest	TCL SVOCs	TCL VOCs	Herbicides	Total Cyanide			Sample Specific Comments	Total Bottle
11451-01	SB005 15-17	3-1-22	1735	S	MP	X	X	X	X	X	X				
-02	SB004 5-7	↓	1635	↓	↓	↓	↓	↓	↓	↓	↓				
-03	SB004 6-8	↓	1700	↓	↓	↓	↓	↓	↓	↓	↓				

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
[illegible]	3-4-22 1210	[illegible]	[illegible]
[illegible]	3/4 1750	Paul Mazzella	3/4/22 1850
Paul Mazzella	3/4/22 2330		3/4/22 2330

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:	L2212858
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Jennifer Lewis
Phone:	(631) 589-6353
Project Name:	TOT2101
Project Number:	TOT2101
Report Date:	03/25/22

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-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212858
Report Date: 03/25/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2212858-01	SV001	SOIL_VAPOR	737 4TH AVE, BROOKLYN, NY	03/10/22 15:45	03/11/22
L2212858-02	SV002	SOIL_VAPOR	737 4TH AVE, BROOKLYN, NY	03/10/22 16:05	03/11/22
L2212858-03	SV003	SOIL_VAPOR	737 4TH AVE, BROOKLYN, NY	03/10/22 15:34	03/11/22
L2212858-04	SV004	SOIL_VAPOR	737 4TH AVE, BROOKLYN, NY	03/10/22 15:30	03/11/22
L2212858-05	SV005	SOIL_VAPOR	737 4TH AVE, BROOKLYN, NY	03/10/22 15:40	03/11/22
L2212858-06	SV006	SOIL_VAPOR	737 4TH AVE, BROOKLYN, NY	03/10/22 16:00	03/11/22
L2212858-07	SS001	SOIL_VAPOR	737 4TH AVE, BROOKLYN, NY	03/10/22 16:35	03/11/22
L2212858-08	SS002	SOIL_VAPOR	737 4TH AVE, BROOKLYN, NY	03/10/22 16:30	03/11/22
L2212858-09	SS003	SOIL_VAPOR	737 4TH AVE, BROOKLYN, NY	03/10/22 15:55	03/11/22
L2212858-10	SS004	SOIL_VAPOR	737 4TH AVE, BROOKLYN, NY	03/10/22 16:15	03/11/22
L2212858-11	IA001	AIR	737 4TH AVE, BROOKLYN, NY	03/10/22 16:40	03/11/22
L2212858-12	IA002	AIR	737 4TH AVE, BROOKLYN, NY	03/10/22 16:25	03/11/22
L2212858-13	IA003	AIR	737 4TH AVE, BROOKLYN, NY	03/10/22 16:20	03/11/22
L2212858-14	UNUSED CAN #946	AIR	737 4TH AVE, BROOKLYN, NY		03/11/22

Project Name:	TOT2101	**Lab Number:**	L2212858
Project Number:	TOT2101	**Report Date:**	03/25/22

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name:	TOT2101	**Lab Number:**	L2212858
Project Number:	TOT2101	**Report Date:**	03/25/22

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on March 4, 2022. The canister certification results are provided as an addendum.

Volatile Organics in Air

L2212858-01D, -02D, -03D, -04D, -05D, -06D, and -07D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2212858-11D and -12D: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

The WG1619485-3 LCS recovery for 1,2,4-trichlorobenzene (136%) is above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of this analyte.

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: Susan E O'Neil Susan O' Neil

Title: Technical Director/Representative Date: 03/25/22

AIR

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-01 D
Client ID: SV001
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 15:45
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/25/22 00:20
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	1.67	--	ND	8.26	--		8.333
Chloromethane	ND	1.67	--	ND	3.45	--		8.333
Freon-114	ND	1.67	--	ND	11.7	--		8.333
Vinyl chloride	ND	1.67	--	ND	4.27	--		8.333
1,3-Butadiene	ND	1.67	--	ND	3.69	--		8.333
Bromomethane	ND	1.67	--	ND	6.48	--		8.333
Chloroethane	ND	1.67	--	ND	4.41	--		8.333
Ethanol	ND	41.7	--	ND	78.6	--		8.333
Vinyl bromide	ND	1.67	--	ND	7.30	--		8.333
Acetone	520	8.33	--	1240	19.8	--		8.333
Trichlorofluoromethane	ND	1.67	--	ND	9.38	--		8.333
Isopropanol	4.97	4.17	--	12.2	10.3	--		8.333
1,1-Dichloroethene	ND	1.67	--	ND	6.62	--		8.333
Tertiary butyl Alcohol	ND	4.17	--	ND	12.6	--		8.333
Methylene chloride	ND	4.17	--	ND	14.5	--		8.333
3-Chloropropene	ND	1.67	--	ND	5.23	--		8.333
Carbon disulfide	ND	1.67	--	ND	5.20	--		8.333
Freon-113	ND	1.67	--	ND	12.8	--		8.333
trans-1,2-Dichloroethene	ND	1.67	--	ND	6.62	--		8.333
1,1-Dichloroethane	ND	1.67	--	ND	6.76	--		8.333
Methyl tert butyl ether	ND	1.67	--	ND	6.02	--		8.333
2-Butanone	553	4.17	--	1630	12.3	--		8.333
cis-1,2-Dichloroethene	ND	1.67	--	ND	6.62	--		8.333

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-01 D
Client ID: SV001
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 15:45
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	4.17	--	ND	15.0	--		8.333
Chloroform	ND	1.67	--	ND	8.16	--		8.333
Tetrahydrofuran	ND	4.17	--	ND	12.3	--		8.333
1,2-Dichloroethane	ND	1.67	--	ND	6.76	--		8.333
n-Hexane	ND	1.67	--	ND	5.89	--		8.333
1,1,1-Trichloroethane	ND	1.67	--	ND	9.11	--		8.333
Benzene	ND	1.67	--	ND	5.34	--		8.333
Carbon tetrachloride	ND	1.67	--	ND	10.5	--		8.333
Cyclohexane	ND	1.67	--	ND	5.75	--		8.333
1,2-Dichloropropane	ND	1.67	--	ND	7.72	--		8.333
Bromodichloromethane	ND	1.67	--	ND	11.2	--		8.333
1,4-Dioxane	ND	1.67	--	ND	6.02	--		8.333
Trichloroethene	ND	1.67	--	ND	8.97	--		8.333
2,2,4-Trimethylpentane	ND	1.67	--	ND	7.80	--		8.333
Heptane	1.69	1.67	--	6.93	6.84	--		8.333
cis-1,3-Dichloropropene	ND	1.67	--	ND	7.58	--		8.333
4-Methyl-2-pentanone	ND	4.17	--	ND	17.1	--		8.333
trans-1,3-Dichloropropene	ND	1.67	--	ND	7.58	--		8.333
1,1,2-Trichloroethane	ND	1.67	--	ND	9.11	--		8.333
Toluene	3.19	1.67	--	12.0	6.29	--		8.333
2-Hexanone	9.52	1.67	--	39.0	6.84	--		8.333
Dibromochloromethane	ND	1.67	--	ND	14.2	--		8.333
1,2-Dibromoethane	ND	1.67	--	ND	12.8	--		8.333
Tetrachloroethene	ND	1.67	--	ND	11.3	--		8.333
Chlorobenzene	ND	1.67	--	ND	7.69	--		8.333
Ethylbenzene	ND	1.67	--	ND	7.25	--		8.333

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-01 D
Client ID: SV001
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 15:45
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	3.61	3.33	--	15.7	14.5	--		8.333
Bromoform	ND	1.67	--	ND	17.3	--		8.333
Styrene	ND	1.67	--	ND	7.11	--		8.333
1,1,2,2-Tetrachloroethane	ND	1.67	--	ND	11.5	--		8.333
o-Xylene	ND	1.67	--	ND	7.25	--		8.333
4-Ethyltoluene	ND	1.67	--	ND	8.21	--		8.333
1,3,5-Trimethylbenzene	ND	1.67	--	ND	8.21	--		8.333
1,2,4-Trimethylbenzene	ND	1.67	--	ND	8.21	--		8.333
Benzyl chloride	ND	1.67	--	ND	8.65	--		8.333
1,3-Dichlorobenzene	ND	1.67	--	ND	10.0	--		8.333
1,4-Dichlorobenzene	ND	1.67	--	ND	10.0	--		8.333
1,2-Dichlorobenzene	ND	1.67	--	ND	10.0	--		8.333
1,2,4-Trichlorobenzene	ND	1.67	--	ND	12.4	--		8.333
Hexachlorobutadiene	ND	1.67	--	ND	17.8	--		8.333

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	93		60-140

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-02 D
Client ID: SV002
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:05
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/25/22 00:56
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2.34	--	ND	11.6	--		11.72
Chloromethane	ND	2.34	--	ND	4.83	--		11.72
Freon-114	ND	2.34	--	ND	16.4	--		11.72
Vinyl chloride	ND	2.34	--	ND	5.98	--		11.72
1,3-Butadiene	ND	2.34	--	ND	5.18	--		11.72
Bromomethane	ND	2.34	--	ND	9.09	--		11.72
Chloroethane	ND	2.34	--	ND	6.17	--		11.72
Ethanol	67.3	58.6	--	127	110	--		11.72
Vinyl bromide	ND	2.34	--	ND	10.2	--		11.72
Acetone	1100	11.7	--	2610	27.8	--		11.72
Trichlorofluoromethane	ND	2.34	--	ND	13.1	--		11.72
Isopropanol	11.7	5.86	--	28.8	14.4	--		11.72
1,1-Dichloroethene	ND	2.34	--	ND	9.28	--		11.72
Tertiary butyl Alcohol	ND	5.86	--	ND	17.8	--		11.72
Methylene chloride	ND	5.86	--	ND	20.4	--		11.72
3-Chloropropene	ND	2.34	--	ND	7.32	--		11.72
Carbon disulfide	ND	2.34	--	ND	7.29	--		11.72
Freon-113	ND	2.34	--	ND	17.9	--		11.72
trans-1,2-Dichloroethene	ND	2.34	--	ND	9.28	--		11.72
1,1-Dichloroethane	ND	2.34	--	ND	9.47	--		11.72
Methyl tert butyl ether	ND	2.34	--	ND	8.44	--		11.72
2-Butanone	1020	5.86	--	3010	17.3	--		11.72
cis-1,2-Dichloroethene	ND	2.34	--	ND	9.28	--		11.72

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-02 D
Client ID: SV002
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:05
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	5.86	--	ND	21.1	--		11.72
Chloroform	13.8	2.34	--	67.4	11.4	--		11.72
Tetrahydrofuran	ND	5.86	--	ND	17.3	--		11.72
1,2-Dichloroethane	ND	2.34	--	ND	9.47	--		11.72
n-Hexane	ND	2.34	--	ND	8.25	--		11.72
1,1,1-Trichloroethane	ND	2.34	--	ND	12.8	--		11.72
Benzene	ND	2.34	--	ND	7.48	--		11.72
Carbon tetrachloride	ND	2.34	--	ND	14.7	--		11.72
Cyclohexane	ND	2.34	--	ND	8.05	--		11.72
1,2-Dichloropropane	ND	2.34	--	ND	10.8	--		11.72
Bromodichloromethane	ND	2.34	--	ND	15.7	--		11.72
1,4-Dioxane	ND	2.34	--	ND	8.43	--		11.72
Trichloroethene	ND	2.34	--	ND	12.6	--		11.72
2,2,4-Trimethylpentane	ND	2.34	--	ND	10.9	--		11.72
Heptane	ND	2.34	--	ND	9.59	--		11.72
cis-1,3-Dichloropropene	ND	2.34	--	ND	10.6	--		11.72
4-Methyl-2-pentanone	ND	5.86	--	ND	24.0	--		11.72
trans-1,3-Dichloropropene	ND	2.34	--	ND	10.6	--		11.72
1,1,2-Trichloroethane	ND	2.34	--	ND	12.8	--		11.72
Toluene	2.55	2.34	--	9.61	8.82	--		11.72
2-Hexanone	24.3	2.34	--	99.6	9.59	--		11.72
Dibromochloromethane	ND	2.34	--	ND	19.9	--		11.72
1,2-Dibromoethane	ND	2.34	--	ND	18.0	--		11.72
Tetrachloroethene	ND	2.34	--	ND	15.9	--		11.72
Chlorobenzene	ND	2.34	--	ND	10.8	--		11.72
Ethylbenzene	ND	2.34	--	ND	10.2	--		11.72

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-02 D
Client ID: SV002
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:05
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	4.69	--	ND	20.4	--		11.72
Bromoform	ND	2.34	--	ND	24.2	--		11.72
Styrene	ND	2.34	--	ND	9.96	--		11.72
1,1,2,2-Tetrachloroethane	ND	2.34	--	ND	16.1	--		11.72
o-Xylene	ND	2.34	--	ND	10.2	--		11.72
4-Ethyltoluene	ND	2.34	--	ND	11.5	--		11.72
1,3,5-Trimethylbenzene	ND	2.34	--	ND	11.5	--		11.72
1,2,4-Trimethylbenzene	ND	2.34	--	ND	11.5	--		11.72
Benzyl chloride	ND	2.34	--	ND	12.1	--		11.72
1,3-Dichlorobenzene	ND	2.34	--	ND	14.1	--		11.72
1,4-Dichlorobenzene	ND	2.34	--	ND	14.1	--		11.72
1,2-Dichlorobenzene	ND	2.34	--	ND	14.1	--		11.72
1,2,4-Trichlorobenzene	ND	2.34	--	ND	17.4	--		11.72
Hexachlorobutadiene	ND	2.34	--	ND	25.0	--		11.72

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	99		60-140

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-03 D
Client ID: SV003
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 15:34
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/25/22 01:32
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.625	--	ND	3.09	--		3.125
Chloromethane	ND	0.625	--	ND	1.29	--		3.125
Freon-114	ND	0.625	--	ND	4.37	--		3.125
Vinyl chloride	ND	0.625	--	ND	1.60	--		3.125
1,3-Butadiene	ND	0.625	--	ND	1.38	--		3.125
Bromomethane	ND	0.625	--	ND	2.43	--		3.125
Chloroethane	ND	0.625	--	ND	1.65	--		3.125
Ethanol	17.2	15.6	--	32.4	29.4	--		3.125
Vinyl bromide	ND	0.625	--	ND	2.73	--		3.125
Acetone	338	3.12	--	803	7.41	--		3.125
Trichlorofluoromethane	ND	0.625	--	ND	3.51	--		3.125
Isopropanol	2.83	1.56	--	6.96	3.83	--		3.125
1,1-Dichloroethene	ND	0.625	--	ND	2.48	--		3.125
Tertiary butyl Alcohol	ND	1.56	--	ND	4.73	--		3.125
Methylene chloride	ND	1.56	--	ND	5.42	--		3.125
3-Chloropropene	ND	0.625	--	ND	1.96	--		3.125
Carbon disulfide	ND	0.625	--	ND	1.95	--		3.125
Freon-113	ND	0.625	--	ND	4.79	--		3.125
trans-1,2-Dichloroethene	ND	0.625	--	ND	2.48	--		3.125
1,1-Dichloroethane	ND	0.625	--	ND	2.53	--		3.125
Methyl tert butyl ether	ND	0.625	--	ND	2.25	--		3.125
2-Butanone	303	1.56	--	894	4.60	--		3.125
cis-1,2-Dichloroethene	ND	0.625	--	ND	2.48	--		3.125

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-03 D
Client ID: SV003
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 15:34
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.56	--	ND	5.62	--		3.125
Chloroform	ND	0.625	--	ND	3.05	--		3.125
Tetrahydrofuran	ND	1.56	--	ND	4.60	--		3.125
1,2-Dichloroethane	ND	0.625	--	ND	2.53	--		3.125
n-Hexane	0.841	0.625	--	2.96	2.20	--		3.125
1,1,1-Trichloroethane	ND	0.625	--	ND	3.41	--		3.125
Benzene	ND	0.625	--	ND	2.00	--		3.125
Carbon tetrachloride	ND	0.625	--	ND	3.93	--		3.125
Cyclohexane	ND	0.625	--	ND	2.15	--		3.125
1,2-Dichloropropane	ND	0.625	--	ND	2.89	--		3.125
Bromodichloromethane	ND	0.625	--	ND	4.19	--		3.125
1,4-Dioxane	ND	0.625	--	ND	2.25	--		3.125
Trichloroethene	ND	0.625	--	ND	3.36	--		3.125
2,2,4-Trimethylpentane	ND	0.625	--	ND	2.92	--		3.125
Heptane	0.950	0.625	--	3.89	2.56	--		3.125
cis-1,3-Dichloropropene	ND	0.625	--	ND	2.84	--		3.125
4-Methyl-2-pentanone	ND	1.56	--	ND	6.39	--		3.125
trans-1,3-Dichloropropene	ND	0.625	--	ND	2.84	--		3.125
1,1,2-Trichloroethane	ND	0.625	--	ND	3.41	--		3.125
Toluene	1.22	0.625	--	4.60	2.36	--		3.125
2-Hexanone	7.06	0.625	--	28.9	2.56	--		3.125
Dibromochloromethane	ND	0.625	--	ND	5.32	--		3.125
1,2-Dibromoethane	ND	0.625	--	ND	4.80	--		3.125
Tetrachloroethene	ND	0.625	--	ND	4.24	--		3.125
Chlorobenzene	ND	0.625	--	ND	2.88	--		3.125
Ethylbenzene	ND	0.625	--	ND	2.71	--		3.125

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-03 D
Client ID: SV003
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 15:34
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	1.25	--	ND	5.43	--		3.125
Bromoform	ND	0.625	--	ND	6.46	--		3.125
Styrene	ND	0.625	--	ND	2.66	--		3.125
1,1,2,2-Tetrachloroethane	ND	0.625	--	ND	4.29	--		3.125
o-Xylene	ND	0.625	--	ND	2.71	--		3.125
4-Ethyltoluene	ND	0.625	--	ND	3.07	--		3.125
1,3,5-Trimethylbenzene	ND	0.625	--	ND	3.07	--		3.125
1,2,4-Trimethylbenzene	ND	0.625	--	ND	3.07	--		3.125
Benzyl chloride	ND	0.625	--	ND	3.24	--		3.125
1,3-Dichlorobenzene	ND	0.625	--	ND	3.76	--		3.125
1,4-Dichlorobenzene	ND	0.625	--	ND	3.76	--		3.125
1,2-Dichlorobenzene	ND	0.625	--	ND	3.76	--		3.125
1,2,4-Trichlorobenzene	ND	0.625	--	ND	4.64	--		3.125
Hexachlorobutadiene	ND	0.625	--	ND	6.67	--		3.125

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	96		60-140

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-04 D
Client ID: SV004
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 15:30
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/25/22 02:08
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	1.25	--	ND	6.18	--		6.25
Chloromethane	ND	1.25	--	ND	2.58	--		6.25
Freon-114	ND	1.25	--	ND	8.74	--		6.25
Vinyl chloride	ND	1.25	--	ND	3.20	--		6.25
1,3-Butadiene	ND	1.25	--	ND	2.77	--		6.25
Bromomethane	ND	1.25	--	ND	4.85	--		6.25
Chloroethane	ND	1.25	--	ND	3.30	--		6.25
Ethanol	ND	31.2	--	ND	58.8	--		6.25
Vinyl bromide	ND	1.25	--	ND	5.47	--		6.25
Acetone	506	6.25	--	1200	14.8	--		6.25
Trichlorofluoromethane	ND	1.25	--	ND	7.02	--		6.25
Isopropanol	5.56	3.12	--	13.7	7.67	--		6.25
1,1-Dichloroethene	ND	1.25	--	ND	4.96	--		6.25
Tertiary butyl Alcohol	ND	3.12	--	ND	9.46	--		6.25
Methylene chloride	ND	3.12	--	ND	10.8	--		6.25
3-Chloropropene	ND	1.25	--	ND	3.91	--		6.25
Carbon disulfide	ND	1.25	--	ND	3.89	--		6.25
Freon-113	ND	1.25	--	ND	9.58	--		6.25
trans-1,2-Dichloroethene	ND	1.25	--	ND	4.96	--		6.25
1,1-Dichloroethane	ND	1.25	--	ND	5.06	--		6.25
Methyl tert butyl ether	ND	1.25	--	ND	4.51	--		6.25
2-Butanone	445	3.12	--	1310	9.20	--		6.25
cis-1,2-Dichloroethene	ND	1.25	--	ND	4.96	--		6.25

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-04 D
Client ID: SV004
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 15:30
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	3.12	--	ND	11.2	--		6.25
Chloroform	ND	1.25	--	ND	6.10	--		6.25
Tetrahydrofuran	ND	3.12	--	ND	9.20	--		6.25
1,2-Dichloroethane	ND	1.25	--	ND	5.06	--		6.25
n-Hexane	1.29	1.25	--	4.55	4.41	--		6.25
1,1,1-Trichloroethane	ND	1.25	--	ND	6.82	--		6.25
Benzene	ND	1.25	--	ND	3.99	--		6.25
Carbon tetrachloride	ND	1.25	--	ND	7.86	--		6.25
Cyclohexane	ND	1.25	--	ND	4.30	--		6.25
1,2-Dichloropropane	ND	1.25	--	ND	5.78	--		6.25
Bromodichloromethane	ND	1.25	--	ND	8.37	--		6.25
1,4-Dioxane	ND	1.25	--	ND	4.50	--		6.25
Trichloroethene	ND	1.25	--	ND	6.72	--		6.25
2,2,4-Trimethylpentane	ND	1.25	--	ND	5.84	--		6.25
Heptane	ND	1.25	--	ND	5.12	--		6.25
cis-1,3-Dichloropropene	ND	1.25	--	ND	5.67	--		6.25
4-Methyl-2-pentanone	ND	3.12	--	ND	12.8	--		6.25
trans-1,3-Dichloropropene	ND	1.25	--	ND	5.67	--		6.25
1,1,2-Trichloroethane	ND	1.25	--	ND	6.82	--		6.25
Toluene	ND	1.25	--	ND	4.71	--		6.25
2-Hexanone	8.38	1.25	--	34.3	5.12	--		6.25
Dibromochloromethane	ND	1.25	--	ND	10.6	--		6.25
1,2-Dibromoethane	ND	1.25	--	ND	9.61	--		6.25
Tetrachloroethene	ND	1.25	--	ND	8.48	--		6.25
Chlorobenzene	ND	1.25	--	ND	5.76	--		6.25
Ethylbenzene	ND	1.25	--	ND	5.43	--		6.25

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-04 D
Client ID: SV004
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 15:30
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	2.50	--	ND	10.9	--		6.25
Bromoform	ND	1.25	--	ND	12.9	--		6.25
Styrene	ND	1.25	--	ND	5.32	--		6.25
1,1,2,2-Tetrachloroethane	ND	1.25	--	ND	8.58	--		6.25
o-Xylene	ND	1.25	--	ND	5.43	--		6.25
4-Ethyltoluene	ND	1.25	--	ND	6.15	--		6.25
1,3,5-Trimethylbenzene	ND	1.25	--	ND	6.15	--		6.25
1,2,4-Trimethylbenzene	ND	1.25	--	ND	6.15	--		6.25
Benzyl chloride	ND	1.25	--	ND	6.47	--		6.25
1,3-Dichlorobenzene	ND	1.25	--	ND	7.52	--		6.25
1,4-Dichlorobenzene	ND	1.25	--	ND	7.52	--		6.25
1,2-Dichlorobenzene	ND	1.25	--	ND	7.52	--		6.25
1,2,4-Trichlorobenzene	ND	1.25	--	ND	9.28	--		6.25
Hexachlorobutadiene	ND	1.25	--	ND	13.3	--		6.25

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	95		60-140

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-05 D
Client ID: SV005
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 15:40
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/25/22 02:46
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
Freon-114	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	ND	50.0	--	ND	94.2	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	735	10.0	--	1750	23.8	--		10
Trichlorofluoromethane	ND	2.00	--	ND	11.2	--		10
Isopropanol	11.4	5.00	--	28.0	12.3	--		10
1,1-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Tertiary butyl Alcohol	ND	5.00	--	ND	15.2	--		10
Methylene chloride	ND	5.00	--	ND	17.4	--		10
3-Chloropropene	ND	2.00	--	ND	6.26	--		10
Carbon disulfide	ND	2.00	--	ND	6.23	--		10
Freon-113	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
1,1-Dichloroethane	ND	2.00	--	ND	8.09	--		10
Methyl tert butyl ether	ND	2.00	--	ND	7.21	--		10
2-Butanone	674	5.00	--	1990	14.7	--		10
cis-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-05 D
Client ID: SV005
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 15:40
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10
Chloroform	18.1	2.00	--	88.4	9.77	--		10
Tetrahydrofuran	ND	5.00	--	ND	14.7	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	ND	2.00	--	ND	7.05	--		10
1,1,1-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Benzene	ND	2.00	--	ND	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	ND	2.00	--	ND	6.88	--		10
1,2-Dichloropropane	ND	2.00	--	ND	9.24	--		10
Bromodichloromethane	ND	2.00	--	ND	13.4	--		10
1,4-Dioxane	ND	2.00	--	ND	7.21	--		10
Trichloroethene	ND	2.00	--	ND	10.7	--		10
2,2,4-Trimethylpentane	ND	2.00	--	ND	9.34	--		10
Heptane	ND	2.00	--	ND	8.20	--		10
cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
4-Methyl-2-pentanone	ND	5.00	--	ND	20.5	--		10
trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Toluene	ND	2.00	--	ND	7.54	--		10
2-Hexanone	15.9	2.00	--	65.2	8.20	--		10
Dibromochloromethane	ND	2.00	--	ND	17.0	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	ND	2.00	--	ND	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-05 D
Client ID: SV005
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 15:40
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	4.00	--	ND	17.4	--		10
Bromoform	ND	2.00	--	ND	20.7	--		10
Styrene	ND	2.00	--	ND	8.52	--		10
1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--		10
o-Xylene	ND	2.00	--	ND	8.69	--		10
4-Ethyltoluene	ND	2.00	--	ND	9.83	--		10
1,3,5-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
1,2,4-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
Benzyl chloride	ND	2.00	--	ND	10.4	--		10
1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,4-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--		10
Hexachlorobutadiene	ND	2.00	--	ND	21.3	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	93		60-140

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-06 D
Client ID: SV006
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/25/22 03:21
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2.36	--	ND	11.7	--		11.83
Chloromethane	ND	2.36	--	ND	4.87	--		11.83
Freon-114	ND	2.36	--	ND	16.5	--		11.83
Vinyl chloride	ND	2.36	--	ND	6.03	--		11.83
1,3-Butadiene	ND	2.36	--	ND	5.22	--		11.83
Bromomethane	ND	2.36	--	ND	9.16	--		11.83
Chloroethane	ND	2.36	--	ND	6.23	--		11.83
Ethanol	ND	59.1	--	ND	111	--		11.83
Vinyl bromide	ND	2.36	--	ND	10.3	--		11.83
Acetone	669	11.8	--	1590	28.0	--		11.83
Trichlorofluoromethane	ND	2.36	--	ND	13.3	--		11.83
Isopropanol	6.56	5.91	--	16.1	14.5	--		11.83
1,1-Dichloroethene	ND	2.36	--	ND	9.36	--		11.83
Tertiary butyl Alcohol	ND	5.91	--	ND	17.9	--		11.83
Methylene chloride	ND	5.91	--	ND	20.5	--		11.83
3-Chloropropene	ND	2.36	--	ND	7.39	--		11.83
Carbon disulfide	ND	2.36	--	ND	7.35	--		11.83
Freon-113	ND	2.36	--	ND	18.1	--		11.83
trans-1,2-Dichloroethene	ND	2.36	--	ND	9.36	--		11.83
1,1-Dichloroethane	ND	2.36	--	ND	9.55	--		11.83
Methyl tert butyl ether	ND	2.36	--	ND	8.51	--		11.83
2-Butanone	1050	5.91	--	3100	17.4	--		11.83
cis-1,2-Dichloroethene	ND	2.36	--	ND	9.36	--		11.83

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-06 D
Client ID: SV006
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	5.91	--	ND	21.3	--		11.83
Chloroform	ND	2.36	--	ND	11.5	--		11.83
Tetrahydrofuran	ND	5.91	--	ND	17.4	--		11.83
1,2-Dichloroethane	ND	2.36	--	ND	9.55	--		11.83
n-Hexane	ND	2.36	--	ND	8.32	--		11.83
1,1,1-Trichloroethane	ND	2.36	--	ND	12.9	--		11.83
Benzene	ND	2.36	--	ND	7.54	--		11.83
Carbon tetrachloride	ND	2.36	--	ND	14.8	--		11.83
Cyclohexane	ND	2.36	--	ND	8.12	--		11.83
1,2-Dichloropropane	ND	2.36	--	ND	10.9	--		11.83
Bromodichloromethane	ND	2.36	--	ND	15.8	--		11.83
1,4-Dioxane	ND	2.36	--	ND	8.50	--		11.83
Trichloroethene	ND	2.36	--	ND	12.7	--		11.83
2,2,4-Trimethylpentane	4.50	2.36	--	21.0	11.0	--		11.83
Heptane	ND	2.36	--	ND	9.67	--		11.83
cis-1,3-Dichloropropene	ND	2.36	--	ND	10.7	--		11.83
4-Methyl-2-pentanone	ND	5.91	--	ND	24.2	--		11.83
trans-1,3-Dichloropropene	ND	2.36	--	ND	10.7	--		11.83
1,1,2-Trichloroethane	ND	2.36	--	ND	12.9	--		11.83
Toluene	3.12	2.36	--	11.8	8.89	--		11.83
2-Hexanone	45.7	2.36	--	187	9.67	--		11.83
Dibromochloromethane	ND	2.36	--	ND	20.1	--		11.83
1,2-Dibromoethane	ND	2.36	--	ND	18.1	--		11.83
Tetrachloroethene	ND	2.36	--	ND	16.0	--		11.83
Chlorobenzene	ND	2.36	--	ND	10.9	--		11.83
Ethylbenzene	ND	2.36	--	ND	10.3	--		11.83

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-06 D
Client ID: SV006
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	4.73	--	ND	20.5	--		11.83
Bromoform	ND	2.36	--	ND	24.4	--		11.83
Styrene	ND	2.36	--	ND	10.0	--		11.83
1,1,2,2-Tetrachloroethane	ND	2.36	--	ND	16.2	--		11.83
o-Xylene	ND	2.36	--	ND	10.3	--		11.83
4-Ethyltoluene	ND	2.36	--	ND	11.6	--		11.83
1,3,5-Trimethylbenzene	ND	2.36	--	ND	11.6	--		11.83
1,2,4-Trimethylbenzene	ND	2.36	--	ND	11.6	--		11.83
Benzyl chloride	ND	2.36	--	ND	12.2	--		11.83
1,3-Dichlorobenzene	ND	2.36	--	ND	14.2	--		11.83
1,4-Dichlorobenzene	ND	2.36	--	ND	14.2	--		11.83
1,2-Dichlorobenzene	ND	2.36	--	ND	14.2	--		11.83
1,2,4-Trichlorobenzene	ND	2.36	--	ND	17.5	--		11.83
Hexachlorobutadiene	ND	2.36	--	ND	25.2	--		11.83

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	99		60-140

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-07 D
Client ID: SS001
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:35
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/25/22 03:59
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	8.91	--	ND	44.1	--		44.56
Chloromethane	ND	8.91	--	ND	18.4	--		44.56
Freon-114	ND	8.91	--	ND	62.3	--		44.56
Vinyl chloride	ND	8.91	--	ND	22.8	--		44.56
1,3-Butadiene	ND	8.91	--	ND	19.7	--		44.56
Bromomethane	ND	8.91	--	ND	34.6	--		44.56
Chloroethane	ND	8.91	--	ND	23.5	--		44.56
Ethanol	ND	223	--	ND	420	--		44.56
Vinyl bromide	ND	8.91	--	ND	39.0	--		44.56
Acetone	4270	44.6	--	10100	106	--		44.56
Trichlorofluoromethane	ND	8.91	--	ND	50.1	--		44.56
Isopropanol	743	22.3	--	1830	54.8	--		44.56
1,1-Dichloroethene	ND	8.91	--	ND	35.3	--		44.56
Tertiary butyl Alcohol	ND	22.3	--	ND	67.6	--		44.56
Methylene chloride	ND	22.3	--	ND	77.5	--		44.56
3-Chloropropene	ND	8.91	--	ND	27.9	--		44.56
Carbon disulfide	ND	8.91	--	ND	27.7	--		44.56
Freon-113	ND	8.91	--	ND	68.3	--		44.56
trans-1,2-Dichloroethene	ND	8.91	--	ND	35.3	--		44.56
1,1-Dichloroethane	ND	8.91	--	ND	36.1	--		44.56
Methyl tert butyl ether	ND	8.91	--	ND	32.1	--		44.56
2-Butanone	171	22.3	--	504	65.8	--		44.56
cis-1,2-Dichloroethene	ND	8.91	--	ND	35.3	--		44.56

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-07 D
Client ID: SS001
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:35
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	153	22.3	--	551	80.4	--		44.56
Chloroform	ND	8.91	--	ND	43.5	--		44.56
Tetrahydrofuran	ND	22.3	--	ND	65.8	--		44.56
1,2-Dichloroethane	ND	8.91	--	ND	36.1	--		44.56
n-Hexane	80.5	8.91	--	284	31.4	--		44.56
1,1,1-Trichloroethane	ND	8.91	--	ND	48.6	--		44.56
Benzene	ND	8.91	--	ND	28.5	--		44.56
Carbon tetrachloride	ND	8.91	--	ND	56.0	--		44.56
Cyclohexane	ND	8.91	--	ND	30.7	--		44.56
1,2-Dichloropropane	ND	8.91	--	ND	41.2	--		44.56
Bromodichloromethane	ND	8.91	--	ND	59.7	--		44.56
1,4-Dioxane	ND	8.91	--	ND	32.1	--		44.56
Trichloroethene	ND	8.91	--	ND	47.9	--		44.56
2,2,4-Trimethylpentane	ND	8.91	--	ND	41.6	--		44.56
Heptane	45.0	8.91	--	184	36.5	--		44.56
cis-1,3-Dichloropropene	ND	8.91	--	ND	40.5	--		44.56
4-Methyl-2-pentanone	ND	22.3	--	ND	91.4	--		44.56
trans-1,3-Dichloropropene	ND	8.91	--	ND	40.5	--		44.56
1,1,2-Trichloroethane	ND	8.91	--	ND	48.6	--		44.56
Toluene	3440	8.91	--	13000	33.6	--		44.56
2-Hexanone	ND	8.91	--	ND	36.5	--		44.56
Dibromochloromethane	ND	8.91	--	ND	75.9	--		44.56
1,2-Dibromoethane	ND	8.91	--	ND	68.5	--		44.56
Tetrachloroethene	ND	8.91	--	ND	60.4	--		44.56
Chlorobenzene	ND	8.91	--	ND	41.0	--		44.56
Ethylbenzene	102	8.91	--	443	38.7	--		44.56

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-07 D
Client ID: SS001
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:35
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	128	17.8	--	556	77.3	--		44.56
Bromoform	ND	8.91	--	ND	92.1	--		44.56
Styrene	57.2	8.91	--	244	37.9	--		44.56
1,1,2,2-Tetrachloroethane	ND	8.91	--	ND	61.2	--		44.56
o-Xylene	38.6	8.91	--	168	38.7	--		44.56
4-Ethyltoluene	ND	8.91	--	ND	43.8	--		44.56
1,3,5-Trimethylbenzene	ND	8.91	--	ND	43.8	--		44.56
1,2,4-Trimethylbenzene	ND	8.91	--	ND	43.8	--		44.56
Benzyl chloride	ND	8.91	--	ND	46.1	--		44.56
1,3-Dichlorobenzene	ND	8.91	--	ND	53.6	--		44.56
1,4-Dichlorobenzene	ND	8.91	--	ND	53.6	--		44.56
1,2-Dichlorobenzene	ND	8.91	--	ND	53.6	--		44.56
1,2,4-Trichlorobenzene	ND	8.91	--	ND	66.1	--		44.56
Hexachlorobutadiene	ND	8.91	--	ND	95.0	--		44.56

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	100		60-140

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-08
Client ID: SS002
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:30
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/25/22 04:38
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.512	0.200	--	2.53	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	6.20	5.00	--	11.7	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	37.9	1.00	--	90.0	2.38	--		1
Trichlorofluoromethane	0.245	0.200	--	1.38	1.12	--		1
Isopropanol	1.80	0.500	--	4.42	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.640	0.500	--	1.94	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	42.3	0.500	--	125	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-08
Client ID: SS002
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:30
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	3.00	0.200	--	10.6	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.206	0.200	--	0.658	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	0.400	0.200	--	1.87	0.934	--		1
Heptane	1.37	0.200	--	5.61	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	19.8	0.200	--	74.6	0.754	--		1
2-Hexanone	3.48	0.200	--	14.3	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.314	0.200	--	2.13	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	4.78	0.200	--	20.8	0.869	--		1

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-08
Client ID: SS002
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:30
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	7.21	0.400	--	31.3	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	10.8	0.200	--	46.0	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	2.66	0.200	--	11.6	0.869	--		1
4-Ethyltoluene	0.253	0.200	--	1.24	0.983	--		1
1,3,5-Trimethylbenzene	0.260	0.200	--	1.28	0.983	--		1
1,2,4-Trimethylbenzene	0.987	0.200	--	4.85	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	102		60-140

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-09
Client ID: SS003
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 15:55
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/25/22 05:17
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.493	0.200	--	2.44	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	101	1.00	--	240	2.38	--		1
Trichlorofluoromethane	0.209	0.200	--	1.17	1.12	--		1
Isopropanol	1.36	0.500	--	3.34	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.26	0.500	--	3.82	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.307	0.200	--	0.956	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	60.7	0.500	--	179	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-09
Client ID: SS003
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 15:55
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.907	0.200	--	3.20	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.478	0.200	--	1.53	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.293	0.200	--	1.01	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	0.627	0.200	--	2.93	0.934	--		1
Heptane	0.828	0.200	--	3.39	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	13.4	0.200	--	50.5	0.754	--		1
2-Hexanone	9.74	0.200	--	39.9	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.972	0.200	--	6.59	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	3.04	0.200	--	13.2	0.869	--		1

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-09
Client ID: SS003
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 15:55
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	5.60	0.400	--	24.3	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	2.53	0.200	--	10.8	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	2.19	0.200	--	9.51	0.869	--		1
4-Ethyltoluene	0.319	0.200	--	1.57	0.983	--		1
1,3,5-Trimethylbenzene	0.435	0.200	--	2.14	0.983	--		1
1,2,4-Trimethylbenzene	1.59	0.200	--	7.82	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	96		60-140

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-10
Client ID: SS004
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:15
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/25/22 05:56
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.468	0.200	--	2.31	0.989	--		1
Chloromethane	0.499	0.200	--	1.03	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	15.3	5.00	--	28.8	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	10.7	1.00	--	25.4	2.38	--		1
Trichlorofluoromethane	0.250	0.200	--	1.40	1.12	--		1
Isopropanol	4.48	0.500	--	11.0	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	2.44	0.500	--	8.48	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	12.5	0.500	--	36.9	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-10
Client ID: SS004
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:15
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	5.21	0.200	--	25.4	0.977	--		1
Tetrahydrofuran	1.20	0.500	--	3.54	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.479	0.200	--	1.69	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.395	0.200	--	1.26	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	0.218	0.200	--	1.46	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	0.297	0.200	--	1.39	0.934	--		1
Heptane	0.685	0.200	--	2.81	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	5.16	0.500	--	21.1	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.66	0.200	--	6.26	0.754	--		1
2-Hexanone	1.68	0.200	--	6.88	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.553	0.200	--	3.75	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.256	0.200	--	1.11	0.869	--		1

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-10
Client ID: SS004
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:15
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	0.854	0.400	--	3.71	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.364	0.200	--	1.58	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.567	0.200	--	2.79	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	100		60-140

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-11
Client ID: IA001
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:40
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/24/22 21:44
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.502	0.200	--	2.48	0.989	--		1
Chloromethane	0.630	0.200	--	1.30	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	0.267	0.200	--	0.591	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	42.3	5.00	--	79.7	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	542	1.00	--	1290	2.38	--	E	1
Trichlorofluoromethane	0.232	0.200	--	1.30	1.12	--		1
Isopropanol	98.8	0.500	--	243	1.23	--		1
Tertiary butyl Alcohol	0.815	0.500	--	2.47	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	28.6	0.500	--	84.3	1.47	--		1
Ethyl Acetate	19.4	0.500	--	69.9	1.80	--		1
Chloroform	0.294	0.200	--	1.44	0.977	--		1
Tetrahydrofuran	0.755	0.500	--	2.23	1.47	--		1

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-11
Client ID: IA001
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:40
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	11.7	0.200	--	41.2	0.705	--		1
Benzene	1.85	0.200	--	5.91	0.639	--		1
Cyclohexane	1.60	0.200	--	5.51	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	2.85	0.200	--	13.3	0.934	--		1
Heptane	8.41	0.200	--	34.5	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	2.42	0.500	--	9.92	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	303	0.200	--	1140	0.754	--	E	1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	43.0	0.200	--	187	0.869	--		1
p/m-Xylene	77.0	0.400	--	334	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	50.4	0.200	--	215	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	26.6	0.200	--	116	0.869	--		1
4-Ethyltoluene	0.965	0.200	--	4.74	0.983	--		1
1,3,5-Trimethylbenzene	1.24	0.200	--	6.10	0.983	--		1

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-11
Client ID: IA001
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:40
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	4.43	0.200	--	21.8	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	103		60-140

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-11
Client ID: IA001
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:40
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/24/22 21:44
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.075	0.020	--	0.472	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.104	0.020	--	0.705	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	93		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	103		60-140

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-11 D
Client ID: IA001
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:40
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/25/22 07:42
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Acetone	501	10.0	--	1190	23.8	--		10
Toluene	446	2.00	--	1680	7.54	--		10

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	95		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	96		60-140

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212858
Report Date: 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-12
Client ID: IA002
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:25
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/24/22 23:03
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.449	0.200	--	2.22	0.989	--		1
Chloromethane	0.583	0.200	--	1.20	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	1.42	0.200	--	3.14	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	162	5.00	--	305	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	109	1.00	--	259	2.38	--		1
Trichlorofluoromethane	0.228	0.200	--	1.28	1.12	--		1
Isopropanol	26.4	0.500	--	64.9	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	2.34	0.500	--	8.13	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	6.90	0.500	--	20.4	1.47	--		1
Ethyl Acetate	3.22	0.500	--	11.6	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-12
Client ID: IA002
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:25
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	28.4	0.200	--	100	0.705	--		1
Benzene	10.6	0.200	--	33.9	0.639	--		1
Cyclohexane	9.51	0.200	--	32.7	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	21.7	0.200	--	101	0.934	--		1
Heptane	16.8	0.200	--	68.8	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	0.818	0.500	--	3.35	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	126	0.200	--	475	0.754	--	E	1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	23.0	0.200	--	99.9	0.869	--		1
p/m-Xylene	38.8	0.400	--	169	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	27.5	0.200	--	117	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	12.7	0.200	--	55.2	0.869	--		1
4-Ethyltoluene	1.93	0.200	--	9.49	0.983	--		1
1,3,5-Trimethylbenzene	2.23	0.200	--	11.0	0.983	--		1

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212858
Report Date: 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-12
Client ID: IA002
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:25
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	8.25	0.200	--	40.6	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	98		60-140

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-12
Client ID: IA002
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:25
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/24/22 23:03
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.078	0.020	--	0.491	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.083	0.020	--	0.563	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	95		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	98		60-140

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-12 D
Client ID: IA002
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:25
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/25/22 08:56
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Toluene	144	0.500	--	543	1.88	--		2.5

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	94		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	94		60-140

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212858
Report Date: 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-13
Client ID: IA003
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:20
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/24/22 23:42
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.538	0.200	--	2.66	0.989	--		1
Chloromethane	0.821	0.200	--	1.70	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	0.227	0.200	--	0.502	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	90.9	5.00	--	171	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	36.3	1.00	--	86.2	2.38	--		1
Trichlorofluoromethane	0.246	0.200	--	1.38	1.12	--		1
Isopropanol	11.5	0.500	--	28.3	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	2.09	0.500	--	6.16	1.47	--		1
Ethyl Acetate	0.957	0.500	--	3.45	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.531	0.500	--	1.57	1.47	--		1

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-13
Client ID: IA003
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:20
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	2.84	0.200	--	10.0	0.705	--		1
Benzene	1.32	0.200	--	4.22	0.639	--		1
Cyclohexane	0.912	0.200	--	3.14	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	2.02	0.200	--	9.43	0.934	--		1
Heptane	1.61	0.200	--	6.60	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	0.895	0.500	--	3.67	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	25.9	0.200	--	97.6	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	5.26	0.200	--	22.8	0.869	--		1
p/m-Xylene	7.45	0.400	--	32.4	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	5.89	0.200	--	25.1	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	2.27	0.200	--	9.86	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	0.215	0.200	--	1.06	0.983	--		1

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-13
Client ID: IA003
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:20
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.887	0.200	--	4.36	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	96		60-140

Project Name: TOT2101 ***Lab Number:*** L2212858

Project Number: TOT2101 ***Report Date:*** 03/25/22

SAMPLE RESULTS

Lab ID: L2212858-13
Client ID: IA003
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/10/22 16:20
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/24/22 23:42
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.076	0.020	--	0.478	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.084	0.020	--	0.570	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	90		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	96		60-140

Project Name: TOT2101 **Lab Number:** L2212858

Project Number: TOT2101 **Report Date:** 03/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 03/24/22 16:04

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-13 Batch: WG1619485-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1

Project Name: TOT2101 **Lab Number:** L2212858

Project Number: TOT2101 **Report Date:** 03/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 03/24/22 16:04

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-13 Batch: WG1619485-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1

Project Name: TOT2101 **Lab Number:** L2212858

Project Number: TOT2101 **Report Date:** 03/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 03/24/22 16:04

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-13 Batch: WG1619485-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: TOT2101 **Lab Number:** L2212858

Project Number: TOT2101 **Report Date:** 03/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 03/24/22 16:43

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 11-13 Batch: WG1619486-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212858
Report Date: 03/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-13 Batch: WG1619485-3								
Dichlorodifluoromethane	96		-		70-130	-		
Chloromethane	103		-		70-130	-		
Freon-114	101		-		70-130	-		
Vinyl chloride	101		-		70-130	-		
1,3-Butadiene	109		-		70-130	-		
Bromomethane	107		-		70-130	-		
Chloroethane	96		-		70-130	-		
Ethanol	107		-		40-160	-		
Vinyl bromide	108		-		70-130	-		
Acetone	96		-		40-160	-		
Trichlorofluoromethane	101		-		70-130	-		
Isopropanol	97		-		40-160	-		
1,1-Dichloroethene	99		-		70-130	-		
Tertiary butyl Alcohol	95		-		70-130	-		
Methylene chloride	114		-		70-130	-		
3-Chloropropene	102		-		70-130	-		
Carbon disulfide	108		-		70-130	-		
Freon-113	105		-		70-130	-		
trans-1,2-Dichloroethene	104		-		70-130	-		
1,1-Dichloroethane	99		-		70-130	-		
Methyl tert butyl ether	98		-		70-130	-		
2-Butanone	108		-		70-130	-		
cis-1,2-Dichloroethene	101		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212858

Report Date: 03/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-13 Batch: WG1619485-3								
Ethyl Acetate	102		-		70-130	-		
Chloroform	103		-		70-130	-		
Tetrahydrofuran	104		-		70-130	-		
1,2-Dichloroethane	100		-		70-130	-		
n-Hexane	106		-		70-130	-		
1,1,1-Trichloroethane	110		-		70-130	-		
Benzene	104		-		70-130	-		
Carbon tetrachloride	101		-		70-130	-		
Cyclohexane	104		-		70-130	-		
1,2-Dichloropropane	110		-		70-130	-		
Bromodichloromethane	111		-		70-130	-		
1,4-Dioxane	104		-		70-130	-		
Trichloroethene	116		-		70-130	-		
2,2,4-Trimethylpentane	110		-		70-130	-		
Heptane	112		-		70-130	-		
cis-1,3-Dichloropropene	109		-		70-130	-		
4-Methyl-2-pentanone	108		-		70-130	-		
trans-1,3-Dichloropropene	106		-		70-130	-		
1,1,2-Trichloroethane	116		-		70-130	-		
Toluene	112		-		70-130	-		
2-Hexanone	114		-		70-130	-		
Dibromochloromethane	118		-		70-130	-		
1,2-Dibromoethane	120		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212858

Report Date: 03/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-13 Batch: WG1619485-3								
Tetrachloroethene	110		-		70-130	-		
Chlorobenzene	115		-		70-130	-		
Ethylbenzene	113		-		70-130	-		
p/m-Xylene	114		-		70-130	-		
Bromoform	104		-		70-130	-		
Styrene	116		-		70-130	-		
1,1,2,2-Tetrachloroethane	122		-		70-130	-		
o-Xylene	115		-		70-130	-		
4-Ethyltoluene	122		-		70-130	-		
1,3,5-Trimethylbenzene	121		-		70-130	-		
1,2,4-Trimethylbenzene	122		-		70-130	-		
Benzyl chloride	112		-		70-130	-		
1,3-Dichlorobenzene	123		-		70-130	-		
1,4-Dichlorobenzene	117		-		70-130	-		
1,2-Dichlorobenzene	124		-		70-130	-		
1,2,4-Trichlorobenzene	**136**	Q	-		70-130	-		
Hexachlorobutadiene	123		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212858

Report Date: 03/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 11-13 Batch: WG1619486-3								
Vinyl chloride	97		-		70-130	-		25
1,1-Dichloroethene	95		-		70-130	-		25
cis-1,2-Dichloroethene	95		-		70-130	-		25
1,1,1-Trichloroethane	105		-		70-130	-		25
Carbon tetrachloride	90		-		70-130	-		25
Trichloroethene	106		-		70-130	-		25
Tetrachloroethene	100		-		70-130	-		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212858
Report Date: 03/25/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-13 QC Batch ID: WG1619485-5 QC Sample: L2212858-11 Client ID: IA001						
Dichlorodifluoromethane	0.502	0.443	ppbV	12		25
Chloromethane	0.630	0.567	ppbV	11		25
Freon-114	ND	ND	ppbV	NC		25
1,3-Butadiene	0.267	0.255	ppbV	5		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	42.3	39.4	ppbV	7		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	542E	536E	ppbV	1		25
Trichlorofluoromethane	0.232	0.223	ppbV	4		25
Isopropanol	98.8	95.2	ppbV	4		25
Tertiary butyl Alcohol	0.815	0.781	ppbV	4		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	28.6	28.0	ppbV	2		25
Ethyl Acetate	19.4	19.1	ppbV	2		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212858
Report Date: 03/25/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-13 QC Batch ID: WG1619485-5 QC Sample: L2212858-11 Client ID: IA001						
Chloroform	0.294	0.289	ppbV	2		25
Tetrahydrofuran	0.755	0.622	ppbV	19		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	11.7	11.7	ppbV	0		25
Benzene	1.85	1.91	ppbV	3		25
Cyclohexane	1.60	1.65	ppbV	3		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	2.85	2.98	ppbV	4		25
Heptane	8.41	8.60	ppbV	2		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	2.42	2.34	ppbV	3		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	303E	303E	ppbV	0		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	43.0	43.5	ppbV	1		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212858
Report Date: 03/25/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-13 QC Batch ID: WG1619485-5 QC Sample: L2212858-11 Client ID: IA001						
p/m-Xylene	77.0	78.5	ppbV	2		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	50.4	52.8	ppbV	5		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	26.6	27.9	ppbV	5		25
4-Ethyltoluene	0.965	1.09	ppbV	12		25
1,3,5-Trimethylbenzene	1.24	1.32	ppbV	6		25
1,2,4-Trimethylbenzene	4.43	4.59	ppbV	4		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-13 QC Batch ID: WG1619485-5 QC Sample: L2212858-11 Client ID: IA001						
Acetone	501	496	ppbV	1		25
Toluene	446	437	ppbV	2		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212858
Report Date: 03/25/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 11-13 QC Batch ID: WG1619486-5 QC Sample: L2212858-11 Client ID: IA001						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Carbon tetrachloride	0.075	0.074	ppbV	1		25
Trichloroethene	ND	ND	ppbV	NC		25
Tetrachloroethene	0.104	0.097	ppbV	7		25

Project Name: TOT2101 **Lab Number:** L2212858

Project Number: TOT2101 **Report Date:** 03/25/22

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2212858-01	SV001	01421	Flow 4	03/04/22	380267		-	-	-	Pass	10.0	7.8	25
L2212858-01	SV001	2949	6.0L Can	03/04/22	380267	L2210522-03	Pass	-28.3	-4.1	-	-	-	-
L2212858-02	SV002	0560	Flow 5	03/04/22	380267		-	-	-	Pass	10.0	9.8	2
L2212858-02	SV002	1050	6.0L Can	03/04/22	380267	L2210522-03	Pass	-28.1	-6.1	-	-	-	-
L2212858-03	SV003	01352	Flow 5	03/04/22	380267		-	-	-	Pass	10.0	9.9	1
L2212858-03	SV003	2287	6.0L Can	03/04/22	380267	L2210522-03	Pass	-28.1	-5.5	-	-	-	-
L2212858-04	SV004	0018	Flow 4	03/04/22	380267		-	-	-	Pass	10.0	10.0	0
L2212858-04	SV004	1660	6.0L Can	03/04/22	380267	L2210522-04	Pass	-28.4	-5.9	-	-	-	-
L2212858-05	SV005	0679	Flow 4	03/04/22	380267		-	-	-	Pass	10.0	10.1	1
L2212858-05	SV005	3094	6.0L Can	03/04/22	380267	L2210522-05	Pass	-28.4	-5.4	-	-	-	-
L2212858-06	SV006	01728	Flow 5	03/04/22	380267		-	-	-	Pass	10.0	10.0	0
L2212858-06	SV006	3346	6.0L Can	03/04/22	380267	L2210522-03	Pass	-28.3	-6.1	-	-	-	-
L2212858-07	SS001	01452	Flow 4	03/04/22	380267		-	-	-	Pass	10.0	9.7	3
L2212858-07	SS001	3070	6.0L Can	03/04/22	380267	L2210522-04	Pass	-28.3	0.0	-	-	-	-
L2212858-08	SS002	01768	Flow 4	03/04/22	380267		-	-	-	Pass	10.0	9.8	2

Project Name: TOT2101 **Lab Number:** L2212858

Project Number: TOT2101 **Report Date:** 03/25/22

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2212858-08	SS002	2678	6.0L Can	03/04/22	380267	L2210522-03	Pass	-28.2	-4.4	-	-	-	-
L2212858-09	SS003	02058	Flow 4	03/04/22	380267		-	-	-	Pass	10.0	10.0	0
L2212858-09	SS003	3086	6.0L Can	03/04/22	380267	L2210522-03	Pass	-28.2	-4.9	-	-	-	-
L2212858-10	SS004	01476	Flow 4	03/04/22	380267		-	-	-	Pass	10.0	10.1	1
L2212858-10	SS004	3263	6.0L Can	03/04/22	380267	L2210522-10	Pass	-28.1	-1.0	-	-	-	-
L2212858-11	IA001	0788	Flow 5	03/04/22	380267		-	-	-	Pass	10.0	9.7	3
L2212858-11	IA001	788	6.0L Can	03/04/22	380267	L2209476-09	Pass	-29.0	-4.1	-	-	-	-
L2212858-12	IA002	0724	Flow 4	03/04/22	380267		-	-	-	Pass	10.0	9.7	3
L2212858-12	IA002	3339	6.0L Can	03/04/22	380267	L2210345-08	Pass	-28.9	-4.8	-	-	-	-
L2212858-13	IA003	01722	Flow 4	03/04/22	380267		-	-	-	Pass	10.0	9.8	2
L2212858-13	IA003	962	6.0L Can	03/04/22	380267	L2210345-03	Pass	-28.9	-5.9	-	-	-	-
L2212858-14	UNUSED CAN #946	01553	Flow 4	03/04/22	380267		-	-	-	Pass	10.0	10.5	5
L2212858-14	UNUSED CAN #946	946	6.0L Can	03/04/22	380267	L2210345-06	Pass	-28.9	0.0	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2209476
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2209476-09
Client ID: CAN 788 SHELF 46
Sample Location:

Date Collected: 02/23/22 09:00
Date Received: 02/23/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/24/22 01:01
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2209476
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2209476-09
Client ID: CAN 788 SHELF 46
Sample Location:

Date Collected: 02/23/22 09:00
Date Received: 02/23/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2209476
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2209476-09
Client ID: CAN 788 SHELF 46
Sample Location:

Date Collected: 02/23/22 09:00
Date Received: 02/23/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2209476
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2209476-09
Client ID: CAN 788 SHELF 46
Sample Location:

Date Collected: 02/23/22 09:00
Date Received: 02/23/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2209476
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2209476-09
Client ID: CAN 788 SHELF 46
Sample Location:

Date Collected: 02/23/22 09:00
Date Received: 02/23/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	94		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2209476
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2209476-09
Client ID: CAN 788 SHELF 46
Sample Location:

Date Collected: 02/23/22 09:00
Date Received: 02/23/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/24/22 01:01
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2209476
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2209476-09
Client ID: CAN 788 SHELF 46
Sample Location:

Date Collected: 02/23/22 09:00
Date Received: 02/23/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2209476
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2209476-09
Client ID: CAN 788 SHELF 46
Sample Location:

Date Collected: 02/23/22 09:00
Date Received: 02/23/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	94		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210345
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210345-03
Client ID: CAN 962 SHELF 42
Sample Location:

Date Collected: 02/24/22 18:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/28/22 23:35
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210345
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210345-03
Client ID: CAN 962 SHELF 42
Sample Location:

Date Collected: 02/24/22 18:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210345
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210345-03
Client ID: CAN 962 SHELF 42
Sample Location:

Date Collected: 02/24/22 18:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210345
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210345-03
Client ID: CAN 962 SHELF 42
Sample Location:

Date Collected: 02/24/22 18:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210345
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210345-03
Client ID: CAN 962 SHELF 42
Sample Location:

Date Collected: 02/24/22 18:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210345
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210345-03
Client ID: CAN 962 SHELF 42
Sample Location:

Date Collected: 02/24/22 18:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/28/22 23:35
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2210345

Project Number: CANISTER QC BAT **Report Date:** 03/25/22

Air Canister Certification Results

Lab ID: L2210345-03
Client ID: CAN 962 SHELF 42
Sample Location:

Date Collected: 02/24/22 18:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2210345

Project Number: CANISTER QC BAT **Report Date:** 03/25/22

Air Canister Certification Results

Lab ID: L2210345-03
Client ID: CAN 962 SHELF 42
Sample Location:

Date Collected: 02/24/22 18:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	92		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2210345

Project Number: CANISTER QC BAT **Report Date:** 03/25/22

Air Canister Certification Results

Lab ID: L2210345-06
Client ID: CAN 946 SHELF 43
Sample Location:

Date Collected: 02/28/22 09:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/01/22 01:34
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210345
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210345-06
Client ID: CAN 946 SHELF 43
Sample Location:

Date Collected: 02/28/22 09:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210345
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210345-06
Client ID: CAN 946 SHELF 43
Sample Location:

Date Collected: 02/28/22 09:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210345
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210345-06
Client ID: CAN 946 SHELF 43
Sample Location:

Date Collected: 02/28/22 09:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210345
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210345-06
Client ID: CAN 946 SHELF 43
Sample Location:

Date Collected: 02/28/22 09:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	89		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210345
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210345-06
Client ID: CAN 946 SHELF 43
Sample Location:

Date Collected: 02/28/22 09:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/01/22 01:34
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210345
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210345-06
Client ID: CAN 946 SHELF 43
Sample Location:

Date Collected: 02/28/22 09:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2210345

Project Number: CANISTER QC BAT **Report Date:** 03/25/22

Air Canister Certification Results

Lab ID: L2210345-06
Client ID: CAN 946 SHELF 43
Sample Location:

Date Collected: 02/28/22 09:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	91		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210345
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210345-08
Client ID: CAN 3339 SHELF 45
Sample Location:

Date Collected: 02/28/22 09:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/01/22 02:53
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210345
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210345-08
Client ID: CAN 3339 SHELF 45
Sample Location:

Date Collected: 02/28/22 09:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210345
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210345-08
Client ID: CAN 3339 SHELF 45
Sample Location:

Date Collected: 02/28/22 09:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210345
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210345-08
Client ID: CAN 3339 SHELF 45
Sample Location:

Date Collected: 02/28/22 09:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210345
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210345-08
Client ID: CAN 3339 SHELF 45
Sample Location:

Date Collected: 02/28/22 09:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210345
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210345-08
Client ID: CAN 3339 SHELF 45
Sample Location:

Date Collected: 02/28/22 09:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/01/22 02:53
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2210345

Project Number: CANISTER QC BAT **Report Date:** 03/25/22

Air Canister Certification Results

Lab ID: L2210345-08
Client ID: CAN 3339 SHELF 45
Sample Location:

Date Collected: 02/28/22 09:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2210345

Project Number: CANISTER QC BAT **Report Date:** 03/25/22

Air Canister Certification Results

Lab ID: L2210345-08
Client ID: CAN 3339 SHELF 45
Sample Location:

Date Collected: 02/28/22 09:00
Date Received: 02/28/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-03
Client ID: CAN 2449 SHELF 35
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/01/22 21:52
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-03
Client ID: CAN 2449 SHELF 35
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-03
Client ID: CAN 2449 SHELF 35
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-03
Client ID: CAN 2449 SHELF 35
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-03
Client ID: CAN 2449 SHELF 35
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	87		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-03
Client ID: CAN 2449 SHELF 35
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/01/22 21:52
Analyst: TS

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2210522

Project Number: CANISTER QC BAT **Report Date:** 03/25/22

Air Canister Certification Results

Lab ID: L2210522-03
Client ID: CAN 2449 SHELF 35
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2210522

Project Number: CANISTER QC BAT **Report Date:** 03/25/22

Air Canister Certification Results

Lab ID: L2210522-03
Client ID: CAN 2449 SHELF 35
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	94		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-04
Client ID: CAN 2982 SHELF 36
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/01/22 22:31
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-04
Client ID: CAN 2982 SHELF 36
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-04
Client ID: CAN 2982 SHELF 36
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-04
Client ID: CAN 2982 SHELF 36
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-04
Client ID: CAN 2982 SHELF 36
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	87		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-04
Client ID: CAN 2982 SHELF 36
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/01/22 22:31
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-04
Client ID: CAN 2982 SHELF 36
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-04
Client ID: CAN 2982 SHELF 36
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	94		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-05
Client ID: CAN 2896 SHELF 37
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/01/22 23:10
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-05
Client ID: CAN 2896 SHELF 37
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-05
Client ID: CAN 2896 SHELF 37
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-05
Client ID: CAN 2896 SHELF 37
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2210522

Project Number: CANISTER QC BAT **Report Date:** 03/25/22

Air Canister Certification Results

Lab ID: L2210522-05
Client ID: CAN 2896 SHELF 37
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	89		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	89		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-05
Client ID: CAN 2896 SHELF 37
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/01/22 23:10
Analyst: TS

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2210522

Project Number: CANISTER QC BAT **Report Date:** 03/25/22

Air Canister Certification Results

Lab ID: L2210522-05
Client ID: CAN 2896 SHELF 37
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2210522

Project Number: CANISTER QC BAT **Report Date:** 03/25/22

Air Canister Certification Results

Lab ID: L2210522-05
Client ID: CAN 2896 SHELF 37
Sample Location:

Date Collected: 02/28/22 18:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	94		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-10
Client ID: CAN 652 SHELF 48
Sample Location:

Date Collected: 03/01/22 09:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/02/22 02:26
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2210522

Project Number: CANISTER QC BAT **Report Date:** 03/25/22

Air Canister Certification Results

Lab ID: L2210522-10
Client ID: CAN 652 SHELF 48
Sample Location:

Date Collected: 03/01/22 09:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-10
Client ID: CAN 652 SHELF 48
Sample Location:

Date Collected: 03/01/22 09:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-10
Client ID: CAN 652 SHELF 48
Sample Location:

Date Collected: 03/01/22 09:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-10
Client ID: CAN 652 SHELF 48
Sample Location:

Date Collected: 03/01/22 09:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	88		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-10
Client ID: CAN 652 SHELF 48
Sample Location:

Date Collected: 03/01/22 09:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/02/22 02:26
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2210522
Report Date: 03/25/22

Air Canister Certification Results

Lab ID: L2210522-10
Client ID: CAN 652 SHELF 48
Sample Location:

Date Collected: 03/01/22 09:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2210522

Project Number: CANISTER QC BAT **Report Date:** 03/25/22

Air Canister Certification Results

Lab ID: L2210522-10
Client ID: CAN 652 SHELF 48
Sample Location:

Date Collected: 03/01/22 09:00
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	93		60-140

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212858
Report Date: 03/25/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2212858-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2212858-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2212858-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2212858-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2212858-05A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2212858-06A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2212858-07A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2212858-08A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2212858-09A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2212858-10A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2212858-11A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2212858-12A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2212858-13A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2212858-14A	Canister - 6 Liter	NA	NA			Y	Absent		CLEAN-FEE()

*Values in parentheses indicate holding time in days

Project Name:	TOT2101	**Lab Number:**	L2212858
Project Number:	TOT2101	**Report Date:**	03/25/22

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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.

Report Format: Data Usability Report

Project Name:	TOT2101	**Lab Number:**	L2212858
Project Number:	TOT2101	**Report Date:**	03/25/22

Footnotes

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

Terms

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

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

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

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

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

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

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

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report

Project Name:	TOT2101	**Lab Number:**	L2212858
Project Number:	TOT2101	**Report Date:**	03/25/22

Data Qualifiers

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.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

Project Name:	TOT2101	**Lab Number:**	L2212858
Project Number:	TOT2101	**Report Date:**	03/25/22

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
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: Chloride, 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, SM4500NO2-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: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **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 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

AIR ANALYSIS

PAGE 1 OF 2

ALPHA ANALYTICAL — CHAIN OF CUSTODY

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

Date Rec'd in Lab: 3/12/22

ALPHA Job #: L2212858

Client Information

Client: PW GC
Address: 630 Johnson Ave
Bohemia, NY 11716
Phone: 631-589-0353
Fax:
Email: JenniferL@pwgrossec.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: TGT2101
Project Location: 737 4th Ave, Brooklyn, NY
Project #: TGT2101
Project Manager: Jennifer Lewis
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☑ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Subfract Non-petroleum HCs	Fixed Gases	Sulfides & Mercaptans by TO-15	☐	Sample Comments (i.e. PID)
12858-01	SV001	3/10/22	0813	1545	-30.92	-5.68	SV	MPP	6L	2949	01431	X						PID 0.3 ppm
02	SV002		0809	1605	-31.08	-8.21				1050	0560	X						0.5
03	SV003		0758	1534	-31.22	-7.54				2787	01352	X						0.0
04	SV004		0752	1530	-30.81	-6.84				1660	00188	X						0.2
05	SV005		0803	1540	-31.01	-6.95				3094	00679	X						0.8
06	SV006		0805	1600	-31.04	-7.64				3346	01729	X						0.1 ~~3.2~~
07	SS001		0810	1635	-30.60	-7.35				3070	~~01455~~ 01452	X						3.2 ~~0.4~~
08	SS002		0837	1630	-30.03	-6.39				2678	01768	X						0.4 ~~1.3~~
09	SS003		0822	1555	-31.00	-6.97				3086	02058	X						1.3
10	SS004		0818	1615	-30.99	-7.37				3263	01476	X						0.3

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Michael P Cerrone	3/11/22 1110	Jack Montano (ALPHA)	3/11/22 11:20
Jack Montano (ALPHA)	3/11/22 16:05		3/11/22 2100
	3/12/22 0530		3/12/22 0500

AIR ANALYSIS

PAGE 2 OF 2

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 3/12/22

ALPHA Job #: L2212858

Client Information

Client: (630 Jmp PWGC
Address: 630 Johnson Ave
Bohemia, NY 11716
Phone: 631-589-6353
Fax:
Email: JenniferL@pwgrosser.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: TOT2101
Project Location: 737 4th Ave, Brooklyn, NY
Project #: TOT2101
Project Manager: Jennifer Lewis
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH Subset Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
11	IA001	3/10/22	0843	1640	-30.62	-5.79	AA	MPP	6L	7188	07188	X	X				
12	IA002	↓	0832	1625	-30.40	-6.39	↓	↓	6L	3397	0724	X	X				
13	IA003	↓	0827	1620	-30.75	-6.71	↓	↓	6L	962	01722	X	X				
				MPP													

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Michael Pecoraro	3/10 3/11/22 1140	Josh Morton (ALPHA)	3/11/22 11:20
Josh Morton (ALPHA)	3/11/22		3/11/22 2100
	3/14/22 0520		3/12/22 0550

Form No: 101-02 Rev: (25-Sep-15)

ANALYTICAL REPORT

Lab Number:	L2212898
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Jennifer Lewis
Phone:	(631) 589-6353
Project Name:	TOT2101
Project Number:	TOT2101
Report Date:	03/30/22

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-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212898
Report Date: 03/30/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2212898-01	MW-9-LNAPL	WATER	737 4TH AVE., BROOKLYN	03/10/22 10:50	03/11/22
L2212898-02	MW-8O-LNAPL	WATER	737 4TH AVE., BROOKLYN	03/10/22 11:50	03/11/22
L2212898-03	MW-8A-LNAPL	WATER	737 4TH AVE., BROOKLYN	03/10/22 10:30	03/11/22

Project Name:	TOT2101	**Lab Number:**	L2212898
Project Number:	TOT2101	**Report Date:**	03/30/22

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name:	TOT2101	**Lab Number:**	L2212898
Project Number:	TOT2101	**Report Date:**	03/30/22

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.

Petroleum Hydrocarbon Identification by GC-FID

L2212898-01D and -03D: The surrogate recoveries are below the acceptance criteria for o-terphenyl (0%) and d50-tetracosane (0%) due to the dilution required to quantitate the sample.

L2212898-01D,- 02, and -03D: The sample was extracted and then analyzed using a gas chromatograph equipped with a flame ionization detector (GC/FID). The temperature program and associated experimental conditions were optimized to obtain maximum resolution in an eighty minute chromatographic run representative of hydrocarbons in the n-Octane (C8) to n-Tetracontane (C40) range. Qualitative evaluation of the sample was conducted by reviewing the sample chromatogram in conjunction with a chromatogram of a normal alkane series generated with the same chromatographic conditions. Chromatograms of hydrocarbon reference materials obtained from our library of 82 reference standards were also utilized to provide the best possible sample match. Quantitative determination of the sample's hydrocarbon concentration was performed in accordance with EPA Method 8015M. The sample's total hydrocarbon concentration and all associated quality control data are included in the report.

The following qualitative information is based on a tentative interpretation of chromatographic pattern recognition and boiling point ranges:

Total Petroleum Hydrocarbon Identification

L2212898-01D and 03D contain hydrocarbons eluting in the range of n-Nonane (C9) to after the elution of n-Octacosane (C28).

Based on the data generated, L2212898-01D and 03D contain material eluting in the low to mid weight ranges of the chromatogram. The material present is similar to Fuel Oil #2/Diesel Fuel.

In an analysis of an undegraded product the n-alkanes are typically the dominant constituents, as seen in the petroleum reference chromatogram. As the product deteriorates, the n-alkanes are preferentially degraded, leaving behind other constituents such as isoprenoids. The analytical testing of the sample identified a pattern

Project Name:	TOT2101	**Lab Number:**	L2212898
Project Number:	TOT2101	**Report Date:**	03/30/22

Case Narrative (continued)

of isoprenoids. The level of alkanes and their ratios to the isoprenoids present indicates that the fuel oil has undergone degradation.

L2212898-02 contains hydrocarbons eluting in the range of n-Undecane (C11) to after the elution of n-Tetracontane (C40).

Based on the data generated, L2212898-02 contains a mixture of material eluting in the mid to heavy weight ranges of the chromatogram. The first material is similar to coal tar/creosote. The second material is not a chromatographic match to any standard in the reference library however it elutes in the hydraulic/lubricating/motor oil range of the chromatogram.

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: Susan E O'Neil Susan O' Neil

Title: Technical Director/Representative Date: 03/30/22

ORGANICS

PETROLEUM HYDROCARBONS

Project Name: TOT2101 **Lab Number:** L2212898

Project Number: TOT2101 **Report Date:** 03/30/22

SAMPLE RESULTS

Lab ID: L2212898-01 D
Client ID: MW-9-LNAPL
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 10:50
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8015D(M)
Analytical Date: 03/17/22 16:52
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 03/14/22 19:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	640		mg/l	1.65	0.825	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	**0**	Q	50-130
d50-Tetracosane	**0**	Q	50-130

Project Name: TOT2101 **Lab Number:** L2212898

Project Number: TOT2101 **Report Date:** 03/30/22

SAMPLE RESULTS

Lab ID: L2212898-02
Client ID: MW-8O-LNAPL
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 11:50
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8015D(M)
Analytical Date: 03/16/22 01:29
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 03/14/22 19:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	6.28		mg/l	0.033	0.017	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	61		50-130
d50-Tetracosane	57		50-130

Project Name: TOT2101 **Lab Number:** L2212898

Project Number: TOT2101 **Report Date:** 03/30/22

SAMPLE RESULTS

Lab ID: L2212898-03 D
Client ID: MW-8A-LNAPL
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 10:30
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8015D(M)
Analytical Date: 03/17/22 18:20
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 03/14/22 19:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	366		mg/l	1.65	0.825	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	**0**	Q	50-130
d50-Tetracosane	**0**	Q	50-130

Project Name: TOT2101 **Lab Number:** L2212898

Project Number: TOT2101 **Report Date:** 03/30/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 03/15/22 16:52
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 03/14/22 19:58

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab for sample(s): 01-03 Batch: WG1615519-1					
Total Petroleum Hydrocarbons (C9-C44)	ND		mg/l	0.033	0.017

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	91		50-130
d50-Tetracosane	87		50-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212898
Report Date: 03/30/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab Associated sample(s): 01-03 Batch: WG1615519-2 WG1615519-3								
Nonane (C9)	52		61		50-130	16		30
Decane (C10)	61		70		50-130	14		30
Dodecane (C12)	74		80		50-130	8		30
Tetradecane (C14)	83		85		50-130	2		30
Hexadecane (C16)	96		95		50-130	1		30
Octadecane (C18)	104		102		50-130	2		30
Nonadecane (C19)	95		93		50-130	2		30
Eicosane (C20)	94		92		50-130	2		30
Docosane (C22)	94		91		50-130	3		30
Tetracosane (C24)	96		94		50-130	2		30
Hexacosane (C26)	94		92		50-130	2		30
Octacosane (C28)	94		91		50-130	3		30
Triacontane (C30)	94		91		50-130	3		30
Hexatriacontane (C36)	89		84		50-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	93		90		50-130
d50-Tetracosane	89		85		50-130

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212898
Report Date: 03/30/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2212898-01A	Amber 1000ml unpreserved	A	7	7	4.8	Y	Absent		A2-PHI(7)
L2212898-01B	Amber 1000ml unpreserved	A	7	7	4.8	Y	Absent		A2-PHI(7)
L2212898-02A	Amber 1000ml unpreserved	A	7	7	4.8	Y	Absent		A2-PHI(7)
L2212898-02B	Amber 1000ml unpreserved	A	7	7	4.8	Y	Absent		A2-PHI(7)
L2212898-03A	Amber 1000ml unpreserved	A	7	7	4.8	Y	Absent		A2-PHI(7)
L2212898-03B	Amber 1000ml unpreserved	A	7	7	4.8	Y	Absent		A2-PHI(7)

*Values in parentheses indicate holding time in days

Project Name:	TOT2101	**Lab Number:**	L2212898
Project Number:	TOT2101	**Report Date:**	03/30/22

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	TOT2101	**Lab Number:**	L2212898
Project Number:	TOT2101	**Report Date:**	03/30/22

Footnotes

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

Terms

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

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

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

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

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

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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.

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).

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

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:	TOT2101	**Lab Number:**	L2212898
Project Number:	TOT2101	**Report Date:**	03/30/22

Data Qualifiers

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.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	TOT2101	**Lab Number:**	L2212898
Project Number:	TOT2101	**Report Date:**	03/30/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
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: Chloride, 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, SM4500NO2-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: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **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 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, 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: 3/12/22

ALPHA Job #: L2212898

Client Information

Client: PW GC
Address: 630 Johnson Ave
Bohemia, NY 11716
Phone: 631-589-6353
Fax:
Email: JenniferL@pwgrosser.com

Project Information

Project Name: TOT2101
Project Location: 737 4th Ave, Brooklyn, NY
Project #: TOT2101
(Use Project name as Project #) ☐
Project Manager: Jennifer Lewis
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

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:

~~Hold analysis for MW-80-LNAPL~~ MP

Please specify Metals or TAL.

ANALYSIS

Petroleum Hydrocarbons (NYSDEC 310.13-CLP)

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	Petroleum Hydrocarbons (NYSDEC 310.13-CLP)	Sample Specific Comments	Total Bottle
L2898-01	MW-9-LNAPL	3/10/22	1050	GW	WH	X	~~Hold Analysis~~ MP	
-02	MW-80-LNAPL	3/10/22	1150	↓	↓	X		
-03	MW-8A-LNAPL	3/10/22	1030	↓	↓	X		
				MP				

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

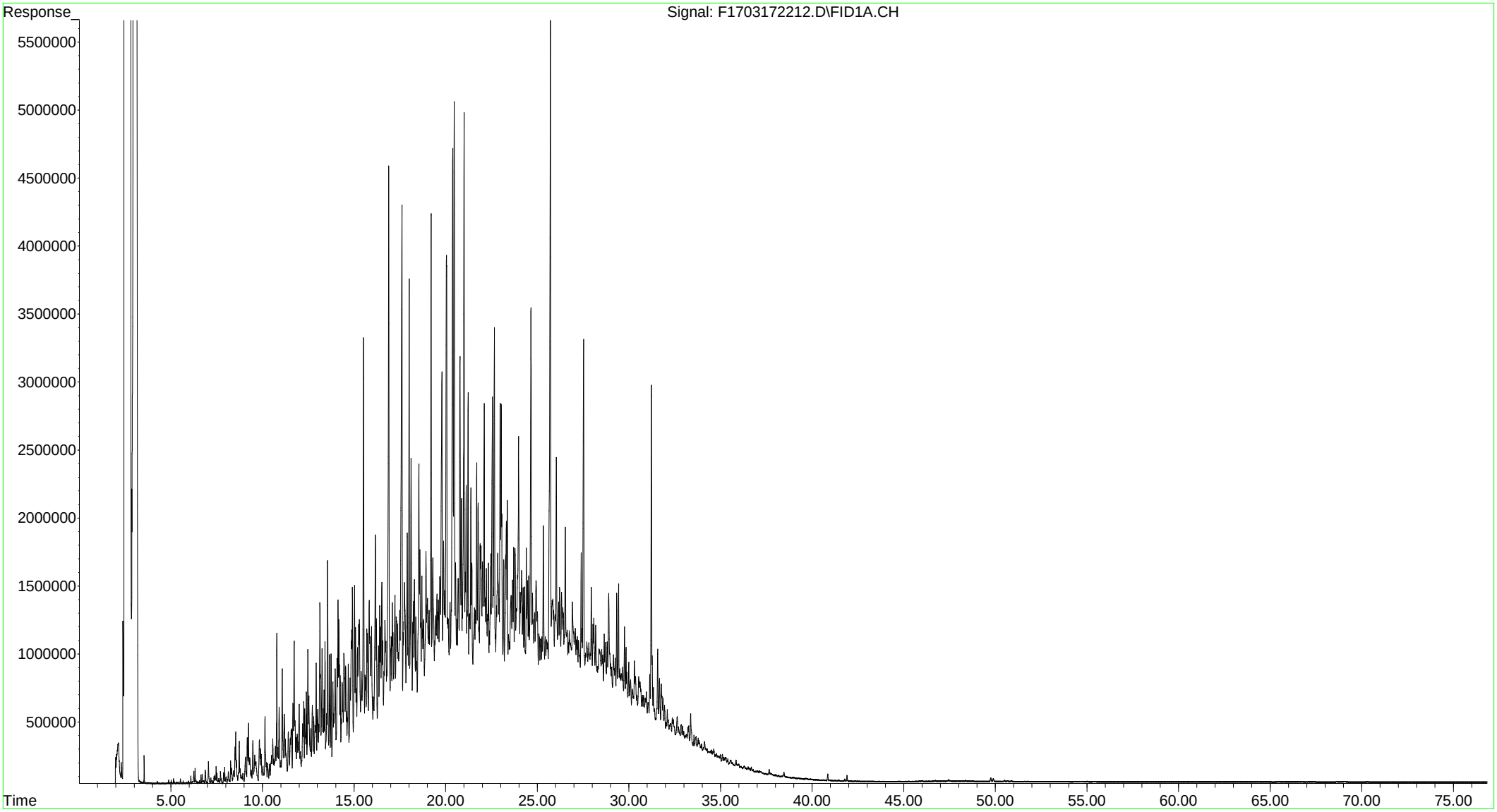
Relinquished By:	Date/Time	Received By:	Date/Time
	3/11/22 1110		
	3/11/22 16:05		3/11/22 11:20
Paul Mazzella	3/11/22	Paul Mazzella	3/11/22 1605
	3/11/22 2300		3/11/22 2300
	3/12/22 7:00		3/12/22 0200
	3/12/22 0500		3/12/22 0500

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.)

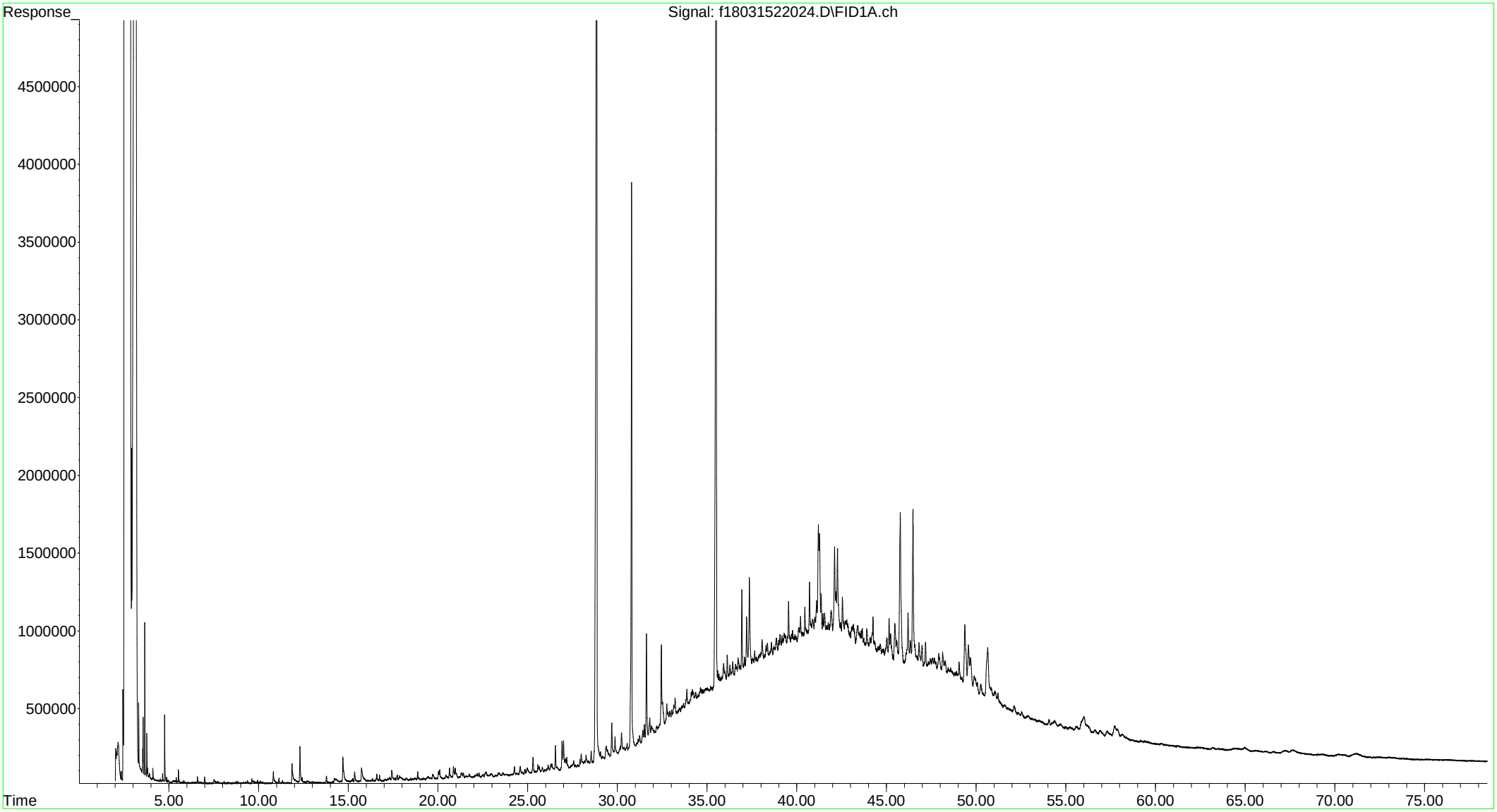
Form No: 01-25 HC (rev. 30-Sept-2013)

GC-FID Chromatogram

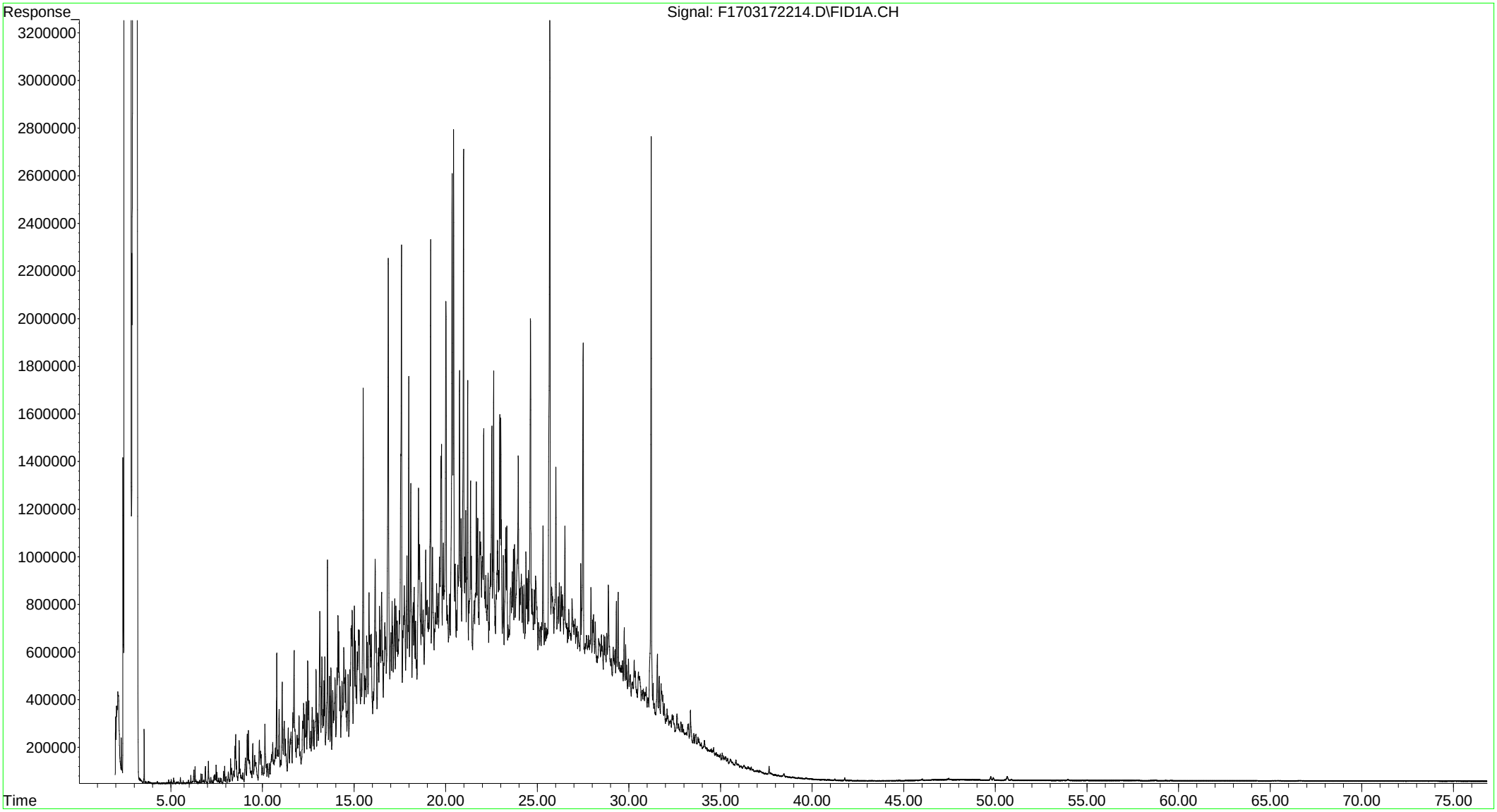
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Operator : FID17:WR
Acquired : 17 Mar 2022 4:52 pm using AcqMethod FID17A.M
Instrument : FID17
Sample Name: L2212898-01D,42,50
Misc Info : WG1615951,WG1615519,ICAL18753
Vial Number: 6



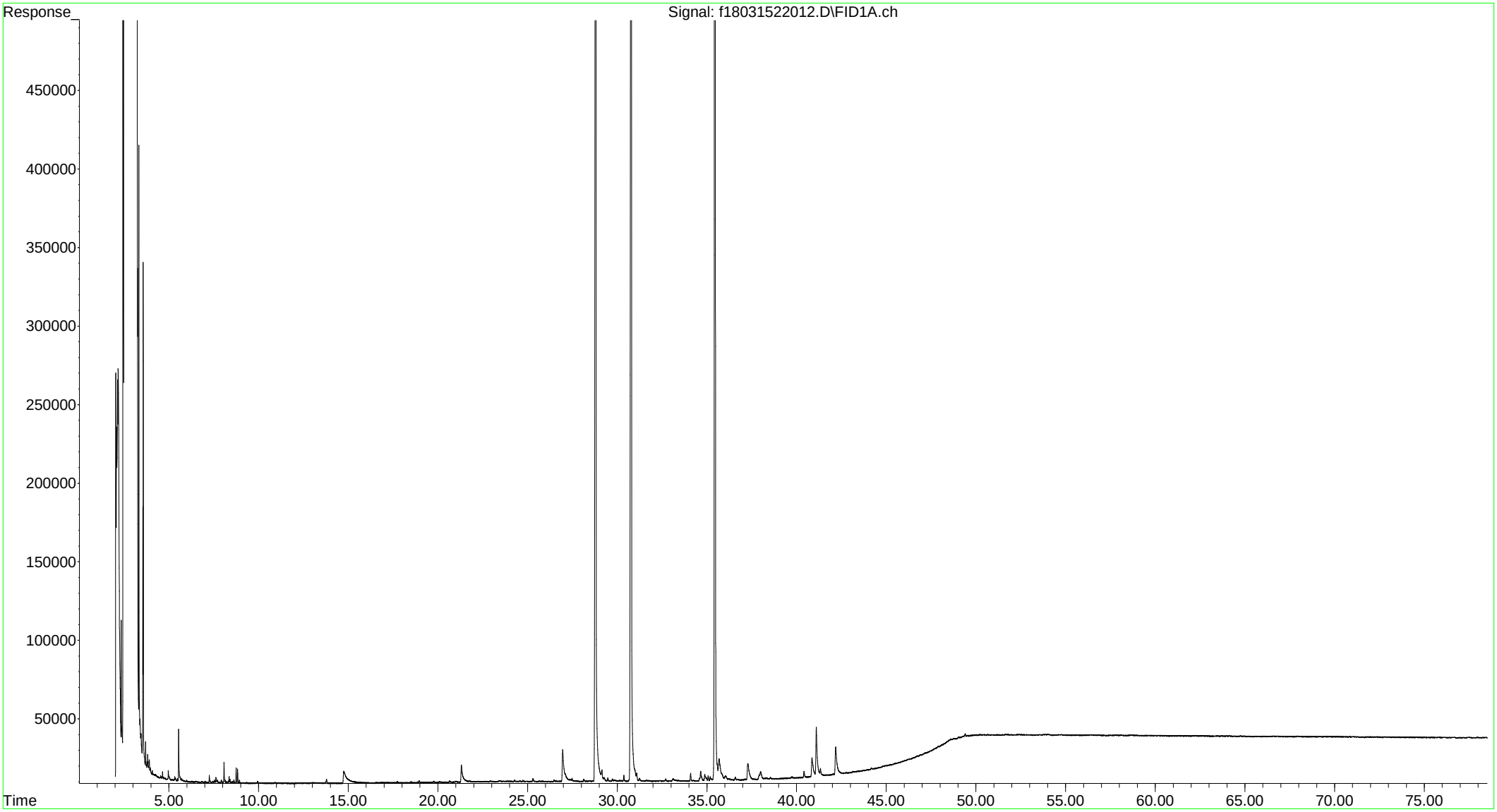
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Operator : FID18:WR
Acquired : 16 Mar 2022 01:29 am using AcqMethod FID18.M
Instrument : FID 18
Sample Name: L2212898-02,42,,
Misc Info : WG1615951,WG1615519,ICAL18548
Vial Number: 12



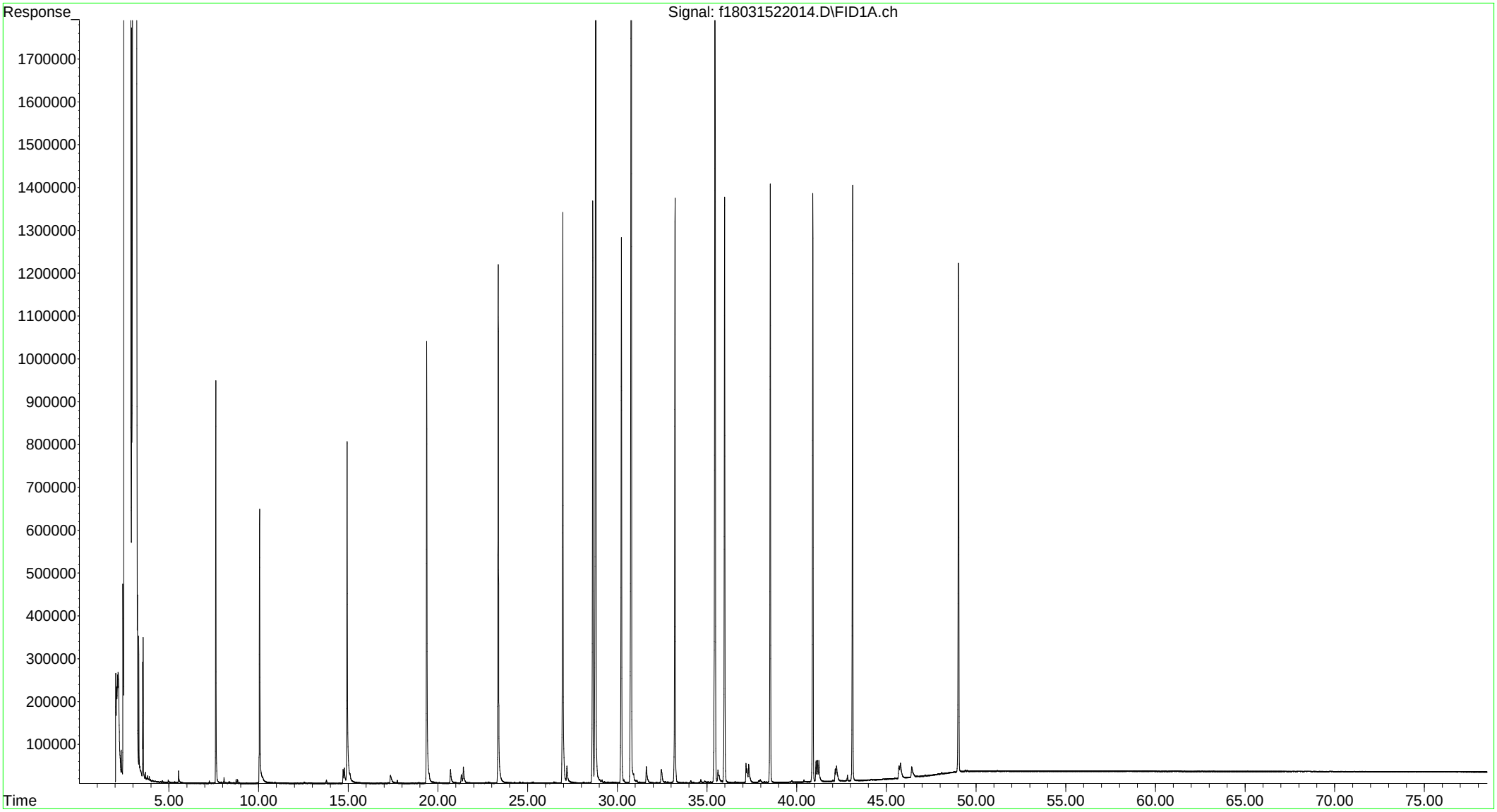
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Operator : FID17:WR
Acquired : 17 Mar 2022 6:20 pm using AcqMethod FID17A.M
Instrument : FID17
Sample Name: L2212898-03D,42,50
Misc Info : WG1615951,WG1615519,ICAL18753
Vial Number: 7



File :O:\Forensics\Data\FID18\2022\MAR\MAR15\f18031522012.D
Operator : FID18:WR
Acquired : 15 Mar 2022 04:52 pm using AcqMethod FID18.M
Instrument : FID 18
Sample Name: WG1615519-1,42,,
Misc Info : WG1615951,WG1615519,ICAL18548
Vial Number: 6

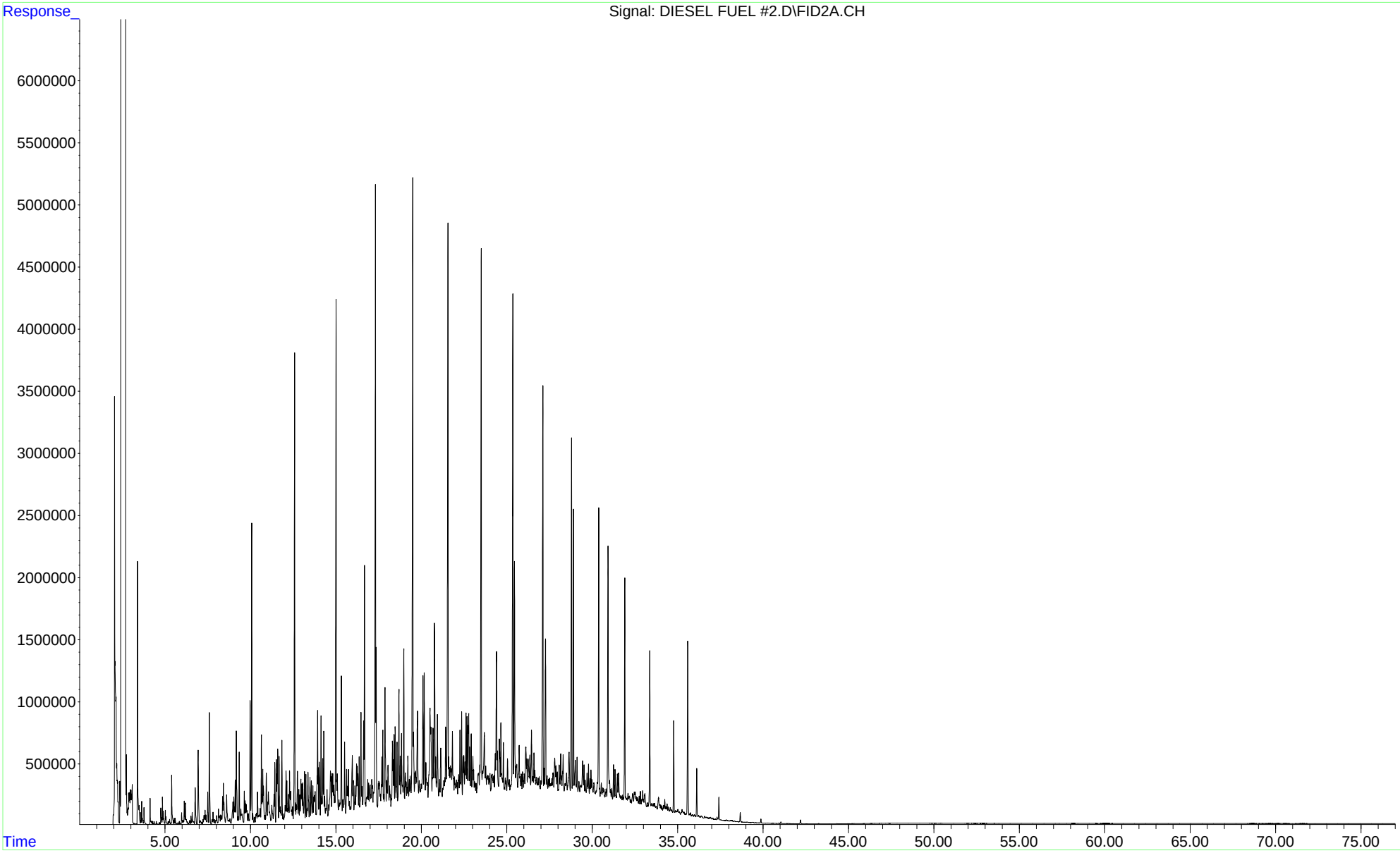


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Operator : FID18:WR
Acquired : 15 Mar 2022 06:18 pm using AcqMethod FID18.M
Instrument : FID 18
Sample Name: WG1615519-2,42,,
Misc Info : WG1615951,WG1615519,ICAL18548
Vial Number: 7

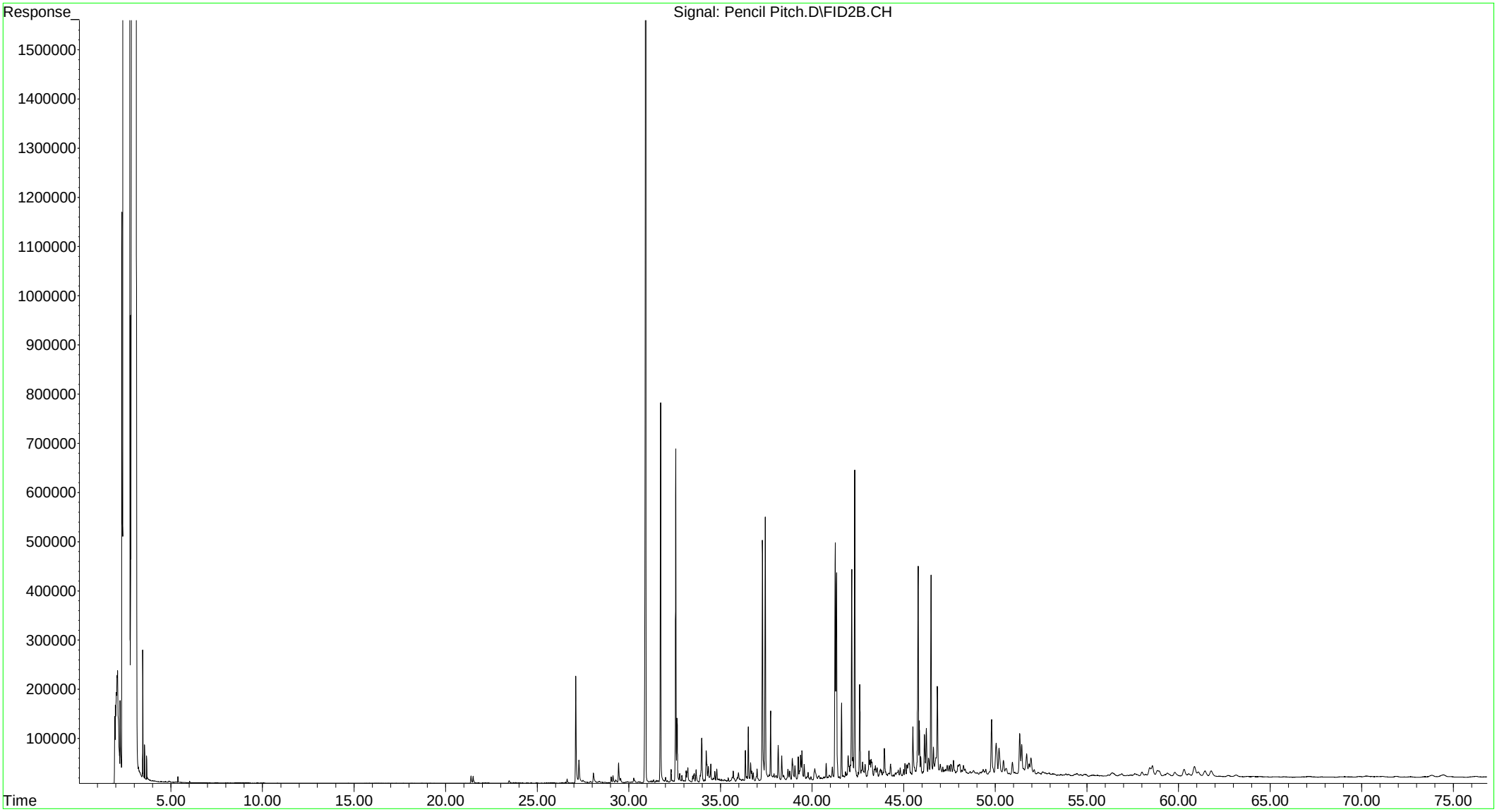


Petroleum Reference Standards

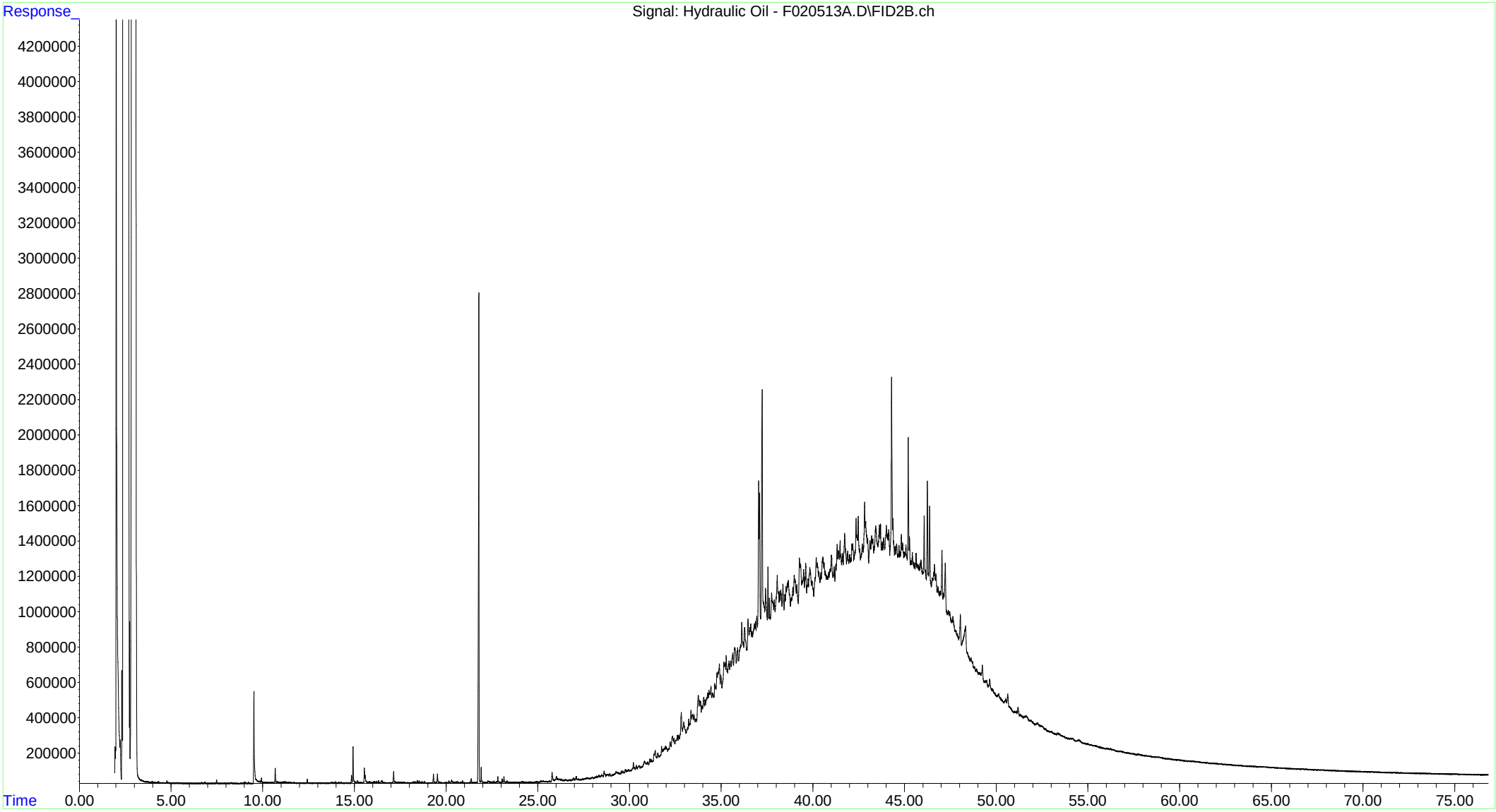
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...         FUEL #2.D
Operator  : PAH2:AC
Instrument :   PAH 2
Acquired  : 18 Nov 2011   8:19 pm using AcqMethod FRNC2AF.M
Sample    : #2 DIESEL FUEL
Misc Info : F050410A
```



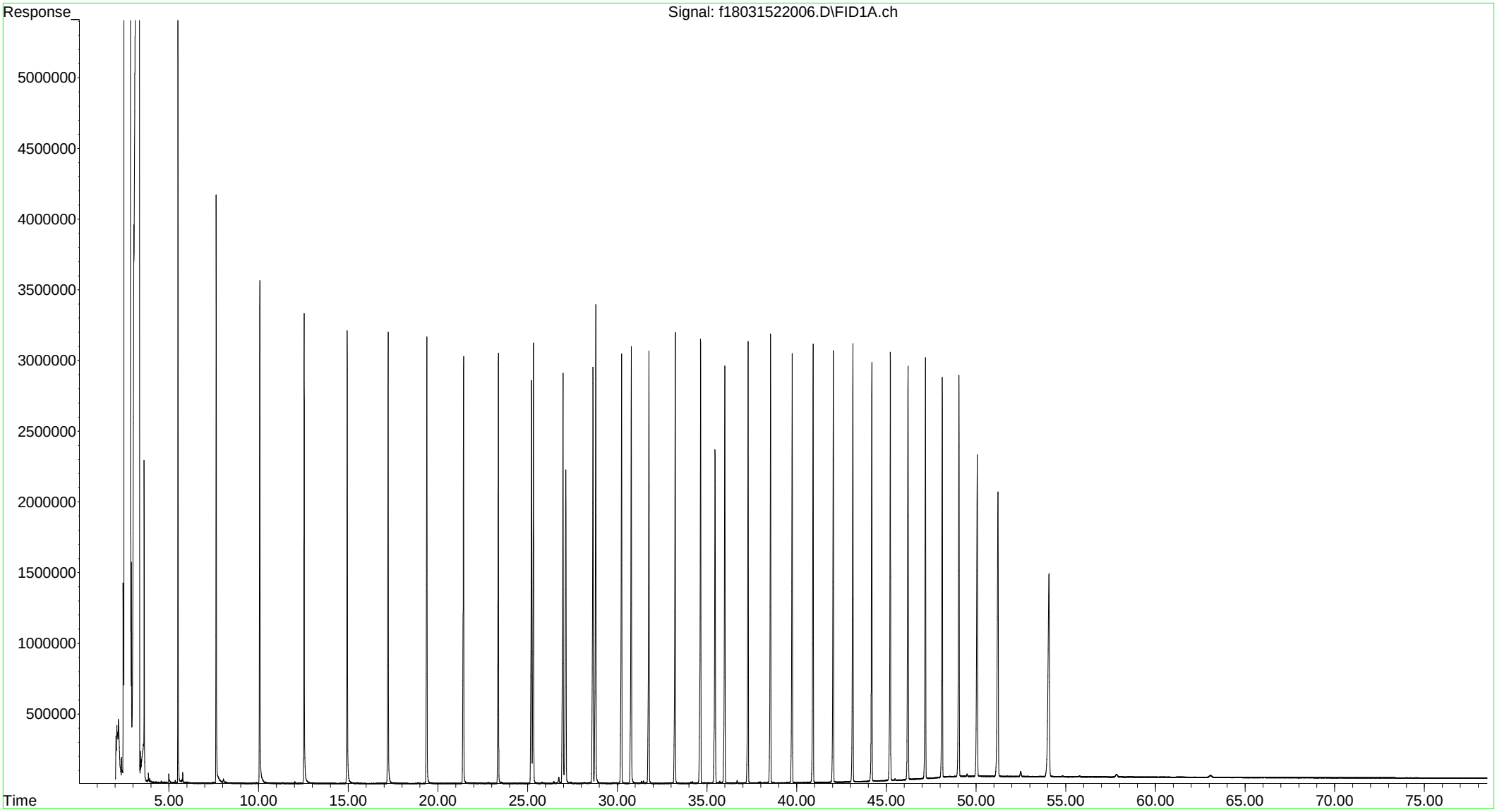
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... ncil Pitch.D
Operator : FID17:WR
Instrument : FID17
Acquired : 02 Feb 2022 9:10 pm using AcqMethod FID17A.M
Sample Name: COAL TAR PITCH/PENCIL PITCH
Misc Info :



```
File       :O:\Forensics\LIBRARY\Hydrocarbon Reference Standards\Hydraul
...         ic Oil - F020513A.D
Operator  : JT
Instrument :   FID 7
Acquired  :  5 Feb 2013   8:53 pm using AcqMethod FID7.M
Sample    : HYDRAULIC OIL
Misc Info : F020513A
```



File   :O:\Forensics\Data\FID18\2022\MAR\MAR15\f18031522006.D
Operator   : FID18:WR
Acquired   : 15 Mar 2022 12:33 pm using AcqMethod FID18.M
Instrument :   FID 18
Sample Name: WG1615951-1
Misc Info : WG1615951,FRBE45,ICAL18548
Vial Number: 3



ANALYTICAL REPORT

Lab Number:	L2212899
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Jennifer Lewis
Phone:	(631) 589-6353
Project Name:	TOT2101
Project Number:	TOT2101
Report Date:	04/01/22

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212899
Report Date: 04/01/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2212899-01	MW-31	WATER	737 4TH AVE., BROOKLYN	03/10/22 10:10	03/11/22
L2212899-02	MW-6	WATER	737 4TH AVE., BROOKLYN	03/10/22 11:15	03/11/22
L2212899-03	MW-84	WATER	737 4TH AVE., BROOKLYN	03/10/22 13:00	03/11/22
L2212899-04	MW-81	WATER	737 4TH AVE., BROOKLYN	03/10/22 14:05	03/11/22
L2212899-05	MW-82	WATER	737 4TH AVE., BROOKLYN	03/10/22 15:20	03/11/22
L2212899-06	MW-3	WATER	737 4TH AVE., BROOKLYN	03/10/22 16:40	03/11/22
L2212899-07	MW-8	WATER	737 4TH AVE., BROOKLYN	03/10/22 17:30	03/11/22
L2212899-08	DUP003	WATER	737 4TH AVE., BROOKLYN	03/10/22 00:00	03/11/22
L2212899-09	EQUIPMENT BLANK	WATER	737 4TH AVE., BROOKLYN	03/10/22 17:50	03/11/22
L2212899-10	FIELD BLANK	WATER	737 4TH AVE., BROOKLYN	03/10/22 18:00	03/11/22
L2212899-11	TRIP BLANK	WATER	737 4TH AVE., BROOKLYN	03/10/22 00:00	03/11/22

Project Name:	TOT2101	**Lab Number:**	L2212899
Project Number:	TOT2101	**Report Date:**	04/01/22

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: TOT2101 **Lab Number:** L2212899
Project Number: TOT2101 **Report Date:** 04/01/22

Case Narrative (continued)

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

Volatile Organics
L2212899-01D, -02D, and -07D: The sample has elevated detection limits due to the dilution required by the sample matrix.

Semivolatile Organics
The WG1616762-3 LCSD recoveries, associated with L2212899-01 through -09, are below the acceptance criteria for 2,4-dinitrophenol (0%) and benzoic acid (0%); however, they have been identified as "difficult" analytes. The results of the associated samples are reported.
The WG1616762-4/-5 MS/MSD recoveries, performed on L2212899-02, are below the acceptance criteria for 3,3'-dichlorobenzidine (0%/0%) due to the concentration of this compound in the MS/MSD falling below the reported detection limit.

Semivolatile Organics by SIM
L2212899-07D: The sample has elevated detection limits due to the dilution required by the sample matrix.
The WG1616761-2/-3 LCS/LCSD recoveries, associated with L2212899-01D, -02 through -06, -07D, -08, and -09, are below the acceptance criteria for pentachlorophenol (3%/4%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Perfluorinated Alkyl Acids by Isotope Dilution
L2212899-01, -02, -03R, -05, -06R, -07R, and WG1617787-3/-4: The sample was centrifuged and decanted prior to extraction due to sample matrix.
L2212899-01, -02, -03R, -04, -05, -06R, -07R, -08, -10, WG1617787-2, and WG1617787-3/-4: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the

Project Name: TOT2101 **Lab Number:** L2212899
Project Number: TOT2101 **Report Date:** 04/01/22

Case Narrative (continued)

surrogate section of the report for details.
L2212899-03R, -06R, and -07R: The sample was re-analyzed due to QC failures in the original analysis. The results of the re-analysis are reported.
L2212899-03, -04, and -08: The MeOH fraction of the extraction is reported for perfluorooctanesulfonamide (fosa) due to better extraction efficiency of the perfluoro[13c8]octanesulfonamide (m8fosa) Extracted Internal Standard.

PCBs
L2212899-05D: The sample has elevated detection limits due to the dilution required by the sample matrix.

Total Metals
The WG1616401-3/-4 MS/MSD recoveries for calcium (420%/400%), iron (2060%/1930%), magnesium (245%/233%), manganese (271%/237%), and sodium (400%/360%), performed on L2212899-02, do not apply because the sample concentrations are greater than four times the spike amounts added.
The WG1616401-6 serial dilution analysis, associated with L2212899-02, had a %D above the acceptance criteria for calcium (27%), iron (24%), magnesium (21%) and manganese (26%).

Dissolved Metals
The WG1616879-1 Method Blank, associated with L2212899-01 through -09, has a concentration above the reporting limit for sodium. Since the associated sample concentrations are either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".
The WG1616879-3/-4 MS/MSD recoveries for calcium (180%/130%), iron (290%/800%), manganese (MS 139%), and sodium (140%/10%), performed on L2212899-02, do not apply because the sample concentrations are greater than four times the spike amounts 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: Cristin Walker

Title: Technical Director/Representative Date: 04/01/22

ORGANICS

VOLATILES

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-01 D
Client ID: MW-31
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 10:10
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/22/22 01:50
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	1.4	2
1,1-Dichloroethane	ND		ug/l	5.0	1.4	2
Chloroform	ND		ug/l	5.0	1.4	2
Carbon tetrachloride	ND		ug/l	1.0	0.27	2
1,2-Dichloropropane	ND		ug/l	2.0	0.27	2
Dibromochloromethane	ND		ug/l	1.0	0.30	2
1,1,2-Trichloroethane	ND		ug/l	3.0	1.0	2
Tetrachloroethene	ND		ug/l	1.0	0.36	2
Chlorobenzene	ND		ug/l	5.0	1.4	2
Trichlorofluoromethane	ND		ug/l	5.0	1.4	2
1,2-Dichloroethane	ND		ug/l	1.0	0.26	2
1,1,1-Trichloroethane	ND		ug/l	5.0	1.4	2
Bromodichloromethane	ND		ug/l	1.0	0.38	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.33	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.29	2
1,3-Dichloropropene, Total	ND		ug/l	1.0	0.29	2
1,1-Dichloropropene	ND		ug/l	5.0	1.4	2
Bromoform	ND		ug/l	4.0	1.3	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.33	2
Benzene	34		ug/l	1.0	0.32	2
Toluene	ND		ug/l	5.0	1.4	2
Ethylbenzene	27		ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	ND		ug/l	2.0	0.14	2
Chloroethane	ND		ug/l	5.0	1.4	2
1,1-Dichloroethene	ND		ug/l	1.0	0.34	2
trans-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-01 D
Client ID: MW-31
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 10:10
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	1.0	0.35	2
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,3-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,4-Dichlorobenzene	ND		ug/l	5.0	1.4	2
Methyl tert butyl ether	9.9		ug/l	5.0	1.4	2
p/m-Xylene	14		ug/l	5.0	1.4	2
o-Xylene	3.6	J	ug/l	5.0	1.4	2
Xylenes, Total	18	J	ug/l	5.0	1.4	2
cis-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2
1,2-Dichloroethene, Total	ND		ug/l	5.0	1.4	2
Dibromomethane	ND		ug/l	10	2.0	2
1,2,3-Trichloropropane	ND		ug/l	5.0	1.4	2
Acrylonitrile	ND		ug/l	10	3.0	2
Styrene	ND		ug/l	5.0	1.4	2
Dichlorodifluoromethane	ND		ug/l	10	2.0	2
Acetone	15		ug/l	10	2.9	2
Carbon disulfide	ND		ug/l	10	2.0	2
2-Butanone	ND		ug/l	10	3.9	2
Vinyl acetate	ND		ug/l	10	2.0	2
4-Methyl-2-pentanone	ND		ug/l	10	2.0	2
2-Hexanone	ND		ug/l	10	2.0	2
Bromochloromethane	ND		ug/l	5.0	1.4	2
2,2-Dichloropropane	ND		ug/l	5.0	1.4	2
1,2-Dibromoethane	ND		ug/l	4.0	1.3	2
1,3-Dichloropropane	ND		ug/l	5.0	1.4	2
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	1.4	2
Bromobenzene	ND		ug/l	5.0	1.4	2
n-Butylbenzene	3.6	J	ug/l	5.0	1.4	2
sec-Butylbenzene	3.8	J	ug/l	5.0	1.4	2
tert-Butylbenzene	ND		ug/l	5.0	1.4	2
o-Chlorotoluene	ND		ug/l	5.0	1.4	2
p-Chlorotoluene	ND		ug/l	5.0	1.4	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	1.4	2
Hexachlorobutadiene	ND		ug/l	5.0	1.4	2
Isopropylbenzene	7.6		ug/l	5.0	1.4	2
p-Isopropyltoluene	2.8	J	ug/l	5.0	1.4	2
Naphthalene	78		ug/l	5.0	1.4	2

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-01 D
Client ID: MW-31
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 10:10
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	9.8		ug/l	5.0	1.4	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,3,5-Trimethylbenzene	9.4		ug/l	5.0	1.4	2
1,2,4-Trimethylbenzene	37		ug/l	5.0	1.4	2
1,4-Dioxane	ND		ug/l	500	120	2
p-Diethylbenzene	13		ug/l	4.0	1.4	2
p-Ethyltoluene	10		ug/l	4.0	1.4	2
1,2,4,5-Tetramethylbenzene	22		ug/l	4.0	1.1	2
Ethyl ether	ND		ug/l	5.0	1.4	2
trans-1,4-Dichloro-2-butene	ND		ug/l	5.0	1.4	2

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

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-02 D
Client ID: MW-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 11:15
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/22/22 02:10
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	1.4	2
1,1-Dichloroethane	ND		ug/l	5.0	1.4	2
Chloroform	ND		ug/l	5.0	1.4	2
Carbon tetrachloride	ND		ug/l	1.0	0.27	2
1,2-Dichloropropane	ND		ug/l	2.0	0.27	2
Dibromochloromethane	ND		ug/l	1.0	0.30	2
1,1,2-Trichloroethane	ND		ug/l	3.0	1.0	2
Tetrachloroethene	ND		ug/l	1.0	0.36	2
Chlorobenzene	ND		ug/l	5.0	1.4	2
Trichlorofluoromethane	ND		ug/l	5.0	1.4	2
1,2-Dichloroethane	ND		ug/l	1.0	0.26	2
1,1,1-Trichloroethane	ND		ug/l	5.0	1.4	2
Bromodichloromethane	ND		ug/l	1.0	0.38	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.33	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.29	2
1,3-Dichloropropene, Total	ND		ug/l	1.0	0.29	2
1,1-Dichloropropene	ND		ug/l	5.0	1.4	2
Bromoform	ND		ug/l	4.0	1.3	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.33	2
Benzene	ND		ug/l	1.0	0.32	2
Toluene	ND		ug/l	5.0	1.4	2
Ethylbenzene	ND		ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	ND		ug/l	2.0	0.14	2
Chloroethane	ND		ug/l	5.0	1.4	2
1,1-Dichloroethene	ND		ug/l	1.0	0.34	2
trans-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-02 D
Client ID: MW-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 11:15
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	1.0	0.35	2
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,3-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,4-Dichlorobenzene	ND		ug/l	5.0	1.4	2
Methyl tert butyl ether	ND		ug/l	5.0	1.4	2
p/m-Xylene	ND		ug/l	5.0	1.4	2
o-Xylene	1.4	J	ug/l	5.0	1.4	2
Xylenes, Total	1.4	J	ug/l	5.0	1.4	2
cis-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2
1,2-Dichloroethene, Total	ND		ug/l	5.0	1.4	2
Dibromomethane	ND		ug/l	10	2.0	2
1,2,3-Trichloropropane	ND		ug/l	5.0	1.4	2
Acrylonitrile	ND		ug/l	10	3.0	2
Styrene	ND		ug/l	5.0	1.4	2
Dichlorodifluoromethane	ND		ug/l	10	2.0	2
Acetone	4.3	J	ug/l	10	2.9	2
Carbon disulfide	ND		ug/l	10	2.0	2
2-Butanone	ND		ug/l	10	3.9	2
Vinyl acetate	ND		ug/l	10	2.0	2
4-Methyl-2-pentanone	ND		ug/l	10	2.0	2
2-Hexanone	ND		ug/l	10	2.0	2
Bromochloromethane	ND		ug/l	5.0	1.4	2
2,2-Dichloropropane	ND		ug/l	5.0	1.4	2
1,2-Dibromoethane	ND		ug/l	4.0	1.3	2
1,3-Dichloropropane	ND		ug/l	5.0	1.4	2
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	1.4	2
Bromobenzene	ND		ug/l	5.0	1.4	2
n-Butylbenzene	ND		ug/l	5.0	1.4	2
sec-Butylbenzene	ND		ug/l	5.0	1.4	2
tert-Butylbenzene	ND		ug/l	5.0	1.4	2
o-Chlorotoluene	ND		ug/l	5.0	1.4	2
p-Chlorotoluene	ND		ug/l	5.0	1.4	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	1.4	2
Hexachlorobutadiene	ND		ug/l	5.0	1.4	2
Isopropylbenzene	2.3	J	ug/l	5.0	1.4	2
p-Isopropyltoluene	ND		ug/l	5.0	1.4	2
Naphthalene	2.2	J	ug/l	5.0	1.4	2

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-02 D
Client ID: MW-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 11:15
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	2.1	J	ug/l	5.0	1.4	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,3,5-Trimethylbenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trimethylbenzene	ND		ug/l	5.0	1.4	2
1,4-Dioxane	ND		ug/l	500	120	2
p-Diethylbenzene	ND		ug/l	4.0	1.4	2
p-Ethyltoluene	ND		ug/l	4.0	1.4	2
1,2,4,5-Tetramethylbenzene	7.9		ug/l	4.0	1.1	2
Ethyl ether	ND		ug/l	5.0	1.4	2
trans-1,4-Dichloro-2-butene	ND		ug/l	5.0	1.4	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-03
Client ID: MW-84
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 13:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/21/22 21:24
Analyst: MV

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	12		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	1.0		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	25		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

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-03 Date Collected: 03/10/22 13:00

Client ID: MW-84 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.32	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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	7.0		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	0.76	J	ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	0.76	J	ug/l	2.5	0.70	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-03 Date Collected: 03/10/22 13:00

Client ID: MW-84 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	0.85	J	ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	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	2.9		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	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-04
Client ID: MW-81
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 14:05
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/21/22 21:45
Analyst: MV

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

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-04 Date Collected: 03/10/22 14:05

Client ID: MW-81 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.19	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-04 Date Collected: 03/10/22 14:05

Client ID: MW-81 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	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	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	108		70-130

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-05
Client ID: MW-82
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 15:20
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/21/22 22:05
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	0.70	J	ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	4.0		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	1.8	J	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

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-05 Date Collected: 03/10/22 15:20

Client ID: MW-82 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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	32		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

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-05 Date Collected: 03/10/22 15:20

Client ID: MW-82 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	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	3.6		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	111		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	107		70-130

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-06
Client ID: MW-3
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 16:40
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/21/22 22:25
Analyst: MV

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	0.98	J	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

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-06 Date Collected: 03/10/22 16:40

Client ID: MW-3 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	1.3	J	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	1.6	J	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

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-06 Date Collected: 03/10/22 16:40

Client ID: MW-3 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	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	111		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	106		70-130

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-07 D
Client ID: MW-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 17:30
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/22/22 02:31
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	1.4	2
1,1-Dichloroethane	ND		ug/l	5.0	1.4	2
Chloroform	ND		ug/l	5.0	1.4	2
Carbon tetrachloride	ND		ug/l	1.0	0.27	2
1,2-Dichloropropane	ND		ug/l	2.0	0.27	2
Dibromochloromethane	ND		ug/l	1.0	0.30	2
1,1,2-Trichloroethane	ND		ug/l	3.0	1.0	2
Tetrachloroethene	ND		ug/l	1.0	0.36	2
Chlorobenzene	ND		ug/l	5.0	1.4	2
Trichlorofluoromethane	ND		ug/l	5.0	1.4	2
1,2-Dichloroethane	ND		ug/l	1.0	0.26	2
1,1,1-Trichloroethane	ND		ug/l	5.0	1.4	2
Bromodichloromethane	ND		ug/l	1.0	0.38	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.33	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.29	2
1,3-Dichloropropene, Total	ND		ug/l	1.0	0.29	2
1,1-Dichloropropene	ND		ug/l	5.0	1.4	2
Bromoform	ND		ug/l	4.0	1.3	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.33	2
Benzene	0.65	J	ug/l	1.0	0.32	2
Toluene	ND		ug/l	5.0	1.4	2
Ethylbenzene	6.7		ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	ND		ug/l	2.0	0.14	2
Chloroethane	ND		ug/l	5.0	1.4	2
1,1-Dichloroethene	ND		ug/l	1.0	0.34	2
trans-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-07 D
Client ID: MW-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 17:30
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	1.0	0.35	2
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,3-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,4-Dichlorobenzene	ND		ug/l	5.0	1.4	2
Methyl tert butyl ether	ND		ug/l	5.0	1.4	2
p/m-Xylene	ND		ug/l	5.0	1.4	2
o-Xylene	ND		ug/l	5.0	1.4	2
Xylenes, Total	ND		ug/l	5.0	1.4	2
cis-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2
1,2-Dichloroethene, Total	ND		ug/l	5.0	1.4	2
Dibromomethane	ND		ug/l	10	2.0	2
1,2,3-Trichloropropane	ND		ug/l	5.0	1.4	2
Acrylonitrile	ND		ug/l	10	3.0	2
Styrene	ND		ug/l	5.0	1.4	2
Dichlorodifluoromethane	ND		ug/l	10	2.0	2
Acetone	8.2	J	ug/l	10	2.9	2
Carbon disulfide	ND		ug/l	10	2.0	2
2-Butanone	ND		ug/l	10	3.9	2
Vinyl acetate	ND		ug/l	10	2.0	2
4-Methyl-2-pentanone	ND		ug/l	10	2.0	2
2-Hexanone	ND		ug/l	10	2.0	2
Bromochloromethane	ND		ug/l	5.0	1.4	2
2,2-Dichloropropane	ND		ug/l	5.0	1.4	2
1,2-Dibromoethane	ND		ug/l	4.0	1.3	2
1,3-Dichloropropane	ND		ug/l	5.0	1.4	2
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	1.4	2
Bromobenzene	ND		ug/l	5.0	1.4	2
n-Butylbenzene	2.9	J	ug/l	5.0	1.4	2
sec-Butylbenzene	3.6	J	ug/l	5.0	1.4	2
tert-Butylbenzene	ND		ug/l	5.0	1.4	2
o-Chlorotoluene	ND		ug/l	5.0	1.4	2
p-Chlorotoluene	ND		ug/l	5.0	1.4	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	1.4	2
Hexachlorobutadiene	ND		ug/l	5.0	1.4	2
Isopropylbenzene	7.7		ug/l	5.0	1.4	2
p-Isopropyltoluene	ND		ug/l	5.0	1.4	2
Naphthalene	10		ug/l	5.0	1.4	2

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-07 D
Client ID: MW-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 17:30
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	9.8		ug/l	5.0	1.4	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,3,5-Trimethylbenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trimethylbenzene	2.4	J	ug/l	5.0	1.4	2
1,4-Dioxane	ND		ug/l	500	120	2
p-Diethylbenzene	2.8	J	ug/l	4.0	1.4	2
p-Ethyltoluene	ND		ug/l	4.0	1.4	2
1,2,4,5-Tetramethylbenzene	22		ug/l	4.0	1.1	2
Ethyl ether	ND		ug/l	5.0	1.4	2
trans-1,4-Dichloro-2-butene	ND		ug/l	5.0	1.4	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	113		70-130

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-08
Client ID: DUP003
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 00:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/21/22 22:45
Analyst: MV

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

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-08 Date Collected: 03/10/22 00:00

Client ID: DUP003 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.19	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-08 Date Collected: 03/10/22 00:00

Client ID: DUP003 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	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	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-09
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 17:50
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/21/22 23:06
Analyst: MV

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

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-09 Date Collected: 03/10/22 17:50

Client ID: EQUIPMENT BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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	2.1	J	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

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-09 Date Collected: 03/10/22 17:50

Client ID: EQUIPMENT BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	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	99		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	104		70-130

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-11
Client ID: TRIP BLANK
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 00:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/21/22 20:43
Analyst: MV

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

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-11 Date Collected: 03/10/22 00:00

Client ID: TRIP BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-11 Date Collected: 03/10/22 00:00

Client ID: TRIP BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	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	107		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	106		70-130

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/21/22 19:42
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09,11 Batch: WG1618430-5					
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: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/21/22 19:42
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09,11 Batch: WG1618430-5					
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: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/21/22 19:42
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09,11 Batch: WG1618430-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212899
Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09,11 Batch: WG1618430-3 WG1618430-4								
Methylene chloride	110		100		70-130	10		20
1,1-Dichloroethane	110		100		70-130	10		20
Chloroform	110		100		70-130	10		20
Carbon tetrachloride	110		100		63-132	10		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	100		98		63-130	2		20
1,1,2-Trichloroethane	100		97		70-130	3		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	110		100		75-130	10		20
Trichlorofluoromethane	110		100		62-150	10		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	100		98		67-130	2		20
Bromodichloromethane	110		100		67-130	10		20
trans-1,3-Dichloropropene	100		94		70-130	6		20
cis-1,3-Dichloropropene	100		93		70-130	7		20
1,1-Dichloropropene	100		95		70-130	5		20
Bromoform	94		96		54-136	2		20
1,1,2,2-Tetrachloroethane	99		99		67-130	0		20
Benzene	110		100		70-130	10		20
Toluene	110		100		70-130	10		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	110		98		64-130	12		20
Bromomethane	96		91		39-139	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212899

Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09,11 Batch: WG1618430-3 WG1618430-4								
Vinyl chloride	110		100		55-140	10		20
Chloroethane	120		110		55-138	9		20
1,1-Dichloroethene	110		100		61-145	10		20
trans-1,2-Dichloroethene	110		97		70-130	13		20
Trichloroethene	110		100		70-130	10		20
1,2-Dichlorobenzene	110		110		70-130	0		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
Methyl tert butyl ether	97		98		63-130	1		20
p/m-Xylene	115		110		70-130	4		20
o-Xylene	110		110		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	110		100		70-130	10		20
1,2,3-Trichloropropane	100		100		64-130	0		20
Acrylonitrile	100		99		70-130	1		20
Styrene	120		110		70-130	9		20
Dichlorodifluoromethane	110		99		36-147	11		20
Acetone	93		110		58-148	17		20
Carbon disulfide	110		100		51-130	10		20
2-Butanone	84		92		63-138	9		20
Vinyl acetate	90		84		70-130	7		20
4-Methyl-2-pentanone	86		94		59-130	9		20
2-Hexanone	92		100		57-130	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212899

Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09,11 Batch: WG1618430-3 WG1618430-4								
Bromochloromethane	110		100		70-130	10		20
2,2-Dichloropropane	120		100		63-133	18		20
1,2-Dibromoethane	94		91		70-130	3		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	100		98		64-130	2		20
Bromobenzene	110		100		70-130	10		20
n-Butylbenzene	100		93		53-136	7		20
sec-Butylbenzene	110		100		70-130	10		20
tert-Butylbenzene	110		100		70-130	10		20
o-Chlorotoluene	110		100		70-130	10		20
p-Chlorotoluene	110		100		70-130	10		20
1,2-Dibromo-3-chloropropane	93		100		41-144	7		20
Hexachlorobutadiene	100		92		63-130	8		20
Isopropylbenzene	110		100		70-130	10		20
p-Isopropyltoluene	100		96		70-130	4		20
Naphthalene	92		93		70-130	1		20
n-Propylbenzene	110		100		69-130	10		20
1,2,3-Trichlorobenzene	99		99		70-130	0		20
1,2,4-Trichlorobenzene	100		97		70-130	3		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		100		70-130	10		20
1,4-Dioxane	122		122		56-162	0		20
p-Diethylbenzene	100		94		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212899

Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09,11 Batch: WG1618430-3 WG1618430-4								
p-Ethyltoluene	110		110		70-130	0		20
1,2,4,5-Tetramethylbenzene	98		92		70-130	6		20
Ethyl ether	100		100		59-134	0		20
trans-1,4-Dichloro-2-butene	87		96		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		98		70-130
Toluene-d8	99		101		70-130
4-Bromofluorobenzene	101		102		70-130
Dibromofluoromethane	100		102		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2212899
Report Date: 04/01/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09,11 QC Batch ID: WG1618430-6 WG1618430-7 QC Sample: L2212899-02 Client ID: MW-6												
Methylene chloride	ND	20	20	100		20	100		70-130	0		20
1,1-Dichloroethane	ND	20	19	95		22	110		70-130	15		20
Chloroform	ND	20	19	95		21	105		70-130	10		20
Carbon tetrachloride	ND	20	17	85		20	100		63-132	16		20
1,2-Dichloropropane	ND	20	20	100		22	110		70-130	10		20
Dibromochloromethane	ND	20	17	85		18	90		63-130	6		20
1,1,2-Trichloroethane	ND	20	19	95		20	100		70-130	5		20
Tetrachloroethene	ND	20	16	80		20	100		70-130	**22**	Q	20
Chlorobenzene	ND	20	18	90		20	100		75-130	11		20
Trichlorofluoromethane	ND	20	18	90		22	110		62-150	20		20
1,2-Dichloroethane	ND	20	20	100		21	105		70-130	5		20
1,1,1-Trichloroethane	ND	20	18	90		21	105		67-130	15		20
Bromodichloromethane	ND	20	18	90		21	105		67-130	15		20
trans-1,3-Dichloropropene	ND	20	16	80		18	90		70-130	12		20
cis-1,3-Dichloropropene	ND	20	17	85		19	95		70-130	11		20
1,1-Dichloropropene	ND	20	18	90		21	105		70-130	15		20
Bromoform	ND	20	17	85		18	90		54-136	6		20
1,1,2,2-Tetrachloroethane	ND	20	19	95		20	100		67-130	5		20
Benzene	ND	20	19	95		21	105		70-130	10		20
Toluene	ND	20	18	90		20	100		70-130	11		20
Ethylbenzene	ND	20	18	90		21	105		70-130	15		20
Chloromethane	ND	20	20	100		22	110		64-130	10		20
Bromomethane	ND	20	12	60		13	65		39-139	8		20

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2212899
Report Date: 04/01/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09,11 QC Batch ID: WG1618430-6 WG1618430-7 QC Sample: L2212899-02 Client ID: MW-6												
Vinyl chloride	ND	20	20	100		22	110		55-140	10		20
Chloroethane	ND	20	22	110		26	130		55-138	17		20
1,1-Dichloroethene	ND	20	19	95		21	105		61-145	10		20
trans-1,2-Dichloroethene	ND	20	18	90		21	105		70-130	15		20
Trichloroethene	ND	20	16	80		21	105		70-130	**27**	Q	20
1,2-Dichlorobenzene	ND	20	17	85		20	100		70-130	16		20
1,3-Dichlorobenzene	ND	20	17	85		20	100		70-130	16		20
1,4-Dichlorobenzene	ND	20	17	85		20	100		70-130	16		20
Methyl tert butyl ether	ND	20	20	100		21	105		63-130	5		20
p/m-Xylene	ND	40	37	92		42	105		70-130	13		20
o-Xylene	1.4J	40	38	95		43	108		70-130	12		20
cis-1,2-Dichloroethene	ND	20	19	95		21	105		70-130	10		20
Dibromomethane	ND	20	20	100		21	105		70-130	5		20
1,2,3-Trichloropropane	ND	20	19	95		20	100		64-130	5		20
Acrylonitrile	ND	20	23	115		24	120		70-130	4		20
Styrene	ND	40	37	92		43	108		70-130	15		20
Dichlorodifluoromethane	ND	20	17	85		20	100		36-147	16		20
Acetone	4.3J	20	24	120		20	100		58-148	18		20
Carbon disulfide	ND	20	18	90		22	110		51-130	20		20
2-Butanone	ND	20	19	95		22	110		63-138	15		20
Vinyl acetate	ND	20	18	90		19	95		70-130	5		20
4-Methyl-2-pentanone	ND	20	20	100		20	100		59-130	0		20
2-Hexanone	ND	20	23	115		22	110		57-130	4		20

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212899
Report Date: 04/01/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09,11 QC Batch ID: WG1618430-6 WG1618430-7 QC Sample: L2212899-02 Client ID: MW-6												
Bromochloromethane	ND	20	20	100		21	105		70-130	5		20
2,2-Dichloropropane	ND	20	18	90		20	100		63-133	11		20
1,2-Dibromoethane	ND	20	18	90		18	90		70-130	0		20
1,3-Dichloropropane	ND	20	19	95		19	95		70-130	0		20
1,1,1,2-Tetrachloroethane	ND	20	17	85		18	90		64-130	6		20
Bromobenzene	ND	20	17	85		19	95		70-130	11		20
n-Butylbenzene	ND	20	15	75		18	90		53-136	18		20
sec-Butylbenzene	ND	20	16	80		21	105		70-130	**27**	Q	20
tert-Butylbenzene	ND	20	17	85		20	100		70-130	16		20
o-Chlorotoluene	ND	20	17	85		20	100		70-130	16		20
p-Chlorotoluene	ND	20	17	85		20	100		70-130	16		20
1,2-Dibromo-3-chloropropane	ND	20	20	100		20	100		41-144	0		20
Hexachlorobutadiene	ND	20	18	90		22	110		63-130	20		20
Isopropylbenzene	2.3J	20	19	95		23	115		70-130	19		20
p-Isopropyltoluene	ND	20	15	75		19	95		70-130	**24**	Q	20
Naphthalene	2.2J	20	21	105		23	115		70-130	9		20
n-Propylbenzene	2.1J	20	18	90		22	110		69-130	20		20
1,2,3-Trichlorobenzene	ND	20	19	95		22	110		70-130	15		20
1,2,4-Trichlorobenzene	ND	20	16	80		20	100		70-130	**22**	Q	20
1,3,5-Trimethylbenzene	ND	20	17	85		20	100		64-130	16		20
1,2,4-Trimethylbenzene	ND	20	17	85		20	100		70-130	16		20
1,4-Dioxane	ND	1000	1200	120		1000	100		56-162	18		20
p-Diethylbenzene	ND	20	16	80		20	100		70-130	**22**	Q	20

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2212899
Report Date: 04/01/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09,11 QC Batch ID: WG1618430-6 WG1618430-7 QC Sample: L2212899-02 Client ID: MW-6												
p-Ethyltoluene	ND	20	16	80		20	100		70-130	**22**	Q	20
1,2,4,5-Tetramethylbenzene	7.9	20	23	76		26	90		70-130	12		20
Ethyl ether	ND	20	21	105		21	105		59-134	0		20
trans-1,4-Dichloro-2-butene	ND	20	17	85		19	95		70-130	11		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		103		70-130
4-Bromofluorobenzene	102		104		70-130
Dibromofluoromethane	100		102		70-130
Toluene-d8	99		99		70-130

SEMIVOLATILES

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-01
Client ID: MW-31
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 10:10
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/25/22 18:09
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	3.8		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	0.87	J	ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-01 Date Collected: 03/10/22 10:10

Client ID: MW-31 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	6.1		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	7.6		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	0.99	J	ug/l	5.0	0.57	1
2-Methylphenol	0.61	J	ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	1.1	J	ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	5.8		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		21-120
Phenol-d6	59		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	92		10-120
4-Terphenyl-d14	85		41-149

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-01
Client ID: MW-31
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 10:10
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/16/22 04:00
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 03/14/22 17:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	117.	J	ng/l	144	32.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	37		15-110

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-01
Client ID: MW-31
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 10:10
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/26/22 01:19
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	90.2		ng/l	1.80	0.368	1
Perfluoropentanoic Acid (PFPeA)	145		ng/l	1.80	0.357	1
Perfluorobutanesulfonic Acid (PFBS)	15.5	F	ng/l	1.80	0.215	1
Perfluorohexanoic Acid (PFHxA)	45.1		ng/l	1.80	0.296	1
Perfluoroheptanoic Acid (PFHpA)	43.7		ng/l	1.80	0.203	1
Perfluorohexanesulfonic Acid (PFHxS)	50.9		ng/l	1.80	0.339	1
Perfluorooctanoic Acid (PFOA)	194		ng/l	1.80	0.213	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.80	1.20	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.80	0.621	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.80	0.282	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.80	0.455	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.80	0.274	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.80	1.09	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.80	0.585	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.80	0.235	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.80	0.884	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.80	0.523	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	8.24		ng/l	1.80	0.725	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.80	0.336	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.80	0.295	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.80	0.224	1
PFOA/PFOS, Total	194		ng/l	1.80	0.213	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-01 Date Collected: 03/10/22 10:10

Client ID: MW-31 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	108		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	81		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	79		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	**48**	Q	57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	72		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	106		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**551**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	134		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**493**	Q	10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**148**	Q	24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	41		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**140**	Q	27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	83		22-136

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-01 D
Client ID: MW-31
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 10:10
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/30/22 16:49
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 10:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	7.7		ug/l	0.50	0.07	5
2-Chloronaphthalene	ND		ug/l	1.0	0.09	5
Fluoranthene	ND		ug/l	0.50	0.10	5
Hexachlorobutadiene	ND		ug/l	2.5	0.23	5
Naphthalene	29		ug/l	0.50	0.24	5
Benzo(a)anthracene	0.20	J	ug/l	0.50	0.10	5
Benzo(a)pyrene	ND		ug/l	0.50	0.08	5
Benzo(b)fluoranthene	0.12	J	ug/l	0.50	0.06	5
Benzo(k)fluoranthene	0.08	J	ug/l	0.50	0.04	5
Chrysene	0.19	J	ug/l	0.50	0.06	5
Acenaphthylene	2.2		ug/l	0.50	0.06	5
Anthracene	ND		ug/l	0.50	0.07	5
Benzo(ghi)perylene	0.09	J	ug/l	0.50	0.07	5
Fluorene	10		ug/l	0.50	0.07	5
Phenanthrene	15		ug/l	0.50	0.12	5
Dibenzo(a,h)anthracene	ND		ug/l	0.50	0.06	5
Indeno(1,2,3-cd)pyrene	0.08	J	ug/l	0.50	0.06	5
Pyrene	2.5		ug/l	0.50	0.10	5
2-Methylnaphthalene	190		ug/l	0.50	0.11	5
Pentachlorophenol	ND		ug/l	4.0	0.07	5
Hexachlorobenzene	ND		ug/l	4.0	0.05	5
Hexachloroethane	ND		ug/l	4.0	0.32	5

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-01 D
Client ID: MW-31
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 10:10
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

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	51		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	87		10-120
4-Terphenyl-d14	78		41-149

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-02
Client ID: MW-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 11:15
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/25/22 18:32
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	8.7		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-02 Date Collected: 03/10/22 11:15

Client ID: MW-6 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	2.6		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		21-120
Phenol-d6	60		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	90		10-120
4-Terphenyl-d14	87		41-149

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-02
Client ID: MW-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 11:15
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/16/22 04:22
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 03/14/22 17:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	110.	J	ng/l	134	30.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	38		15-110

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-02
Client ID: MW-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 11:15
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/19/22 19:20
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 10:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	3.9		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.41		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.68		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.11		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.13		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.46		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.10		ug/l	0.10	0.01	1
Chrysene	0.38		ug/l	0.10	0.01	1
Acenaphthylene	2.0		ug/l	0.10	0.01	1
Anthracene	1.2		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.36		ug/l	0.10	0.01	1
Fluorene	5.4		ug/l	0.10	0.01	1
Phenanthrene	6.3		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.05	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.38		ug/l	0.10	0.01	1
Pyrene	2.1		ug/l	0.10	0.02	1
2-Methylnaphthalene	5.8		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-02 Date Collected: 03/10/22 11:15

Client ID: MW-6 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	55		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	77		41-149

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-02
Client ID: MW-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 11:15
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/21/22 22:41
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	8.70		ng/l	1.79	0.365	1
Perfluoropentanoic Acid (PFPeA)	29.7		ng/l	1.79	0.354	1
Perfluorobutanesulfonic Acid (PFBS)	8.13		ng/l	1.79	0.213	1
Perfluorohexanoic Acid (PFHxA)	32.9		ng/l	1.79	0.294	1
Perfluoroheptanoic Acid (PFHpA)	7.09		ng/l	1.79	0.202	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.79	0.337	1
Perfluorooctanoic Acid (PFOA)	0.824	J	ng/l	1.79	0.211	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	8.31		ng/l	1.79	1.19	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.79	0.616	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.79	0.279	1
Perfluorooctanesulfonic Acid (PFOS)	5.84		ng/l	1.79	0.451	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.79	0.272	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.79	1.08	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.79	0.580	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.79	0.233	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.79	0.877	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.79	0.519	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	3.54		ng/l	1.79	0.720	1
Perfluorododecanoic Acid (PFDoA)	0.351	JF	ng/l	1.79	0.333	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.79	0.293	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.79	0.222	1
PFOA/PFOS, Total	6.66	J	ng/l	1.79	0.211	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-02 Date Collected: 03/10/22 11:15

Client ID: MW-6 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	73		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	103		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**428**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	114		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**407**	Q	10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**126**	Q	24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	77		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	26		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**141**	Q	27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	70		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	72		22-136

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-03
Client ID: MW-84
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 13:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/25/22 16:58
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.4	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	1.0	J	ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-03 Date Collected: 03/10/22 13:00

Client ID: MW-84 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	70		10-120
4-Terphenyl-d14	79		41-149

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-03
Client ID: MW-84
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 13:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/16/22 05:26
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 03/14/22 17:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	150	33.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	34		15-110

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-03
Client ID: MW-84
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 13:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/19/22 19:37
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 10:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.03	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.11		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.07	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.06	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.09	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.30		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.08	J	ug/l	0.10	0.01	1
Chrysene	0.17		ug/l	0.10	0.01	1
Acenaphthylene	0.03	J	ug/l	0.10	0.01	1
Anthracene	0.05	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.18		ug/l	0.10	0.01	1
Fluorene	0.05	J	ug/l	0.10	0.01	1
Phenanthrene	0.06	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.06	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.20		ug/l	0.10	0.01	1
Pyrene	0.23		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.04	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-03 Date Collected: 03/10/22 13:00

Client ID: MW-84 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	73		41-149

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-03
Client ID: MW-84
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 13:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/30/22 09:46
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.77	0.804	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	70		10-112

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-03 R
Client ID: MW-84
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 13:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/26/22 14:14
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	1.18	J	ng/l	2.77	0.565	1
Perfluoropentanoic Acid (PFPeA)	1.56	J	ng/l	2.77	0.549	1
Perfluorobutanesulfonic Acid (PFBS)	0.504	J	ng/l	2.77	0.330	1
Perfluorohexanoic Acid (PFHxA)	1.48	J	ng/l	2.77	0.454	1
Perfluoroheptanoic Acid (PFHpA)	1.36	J	ng/l	2.77	0.312	1
Perfluorohexanesulfonic Acid (PFHxS)	1.17	J	ng/l	2.77	0.521	1
Perfluorooctanoic Acid (PFOA)	3.11		ng/l	2.77	0.327	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	2.43	J	ng/l	2.77	1.84	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.77	0.953	1
Perfluorononanoic Acid (PFNA)	0.510	JF	ng/l	2.77	0.432	1
Perfluorooctanesulfonic Acid (PFOS)	2.78		ng/l	2.77	0.698	1
Perfluorodecanoic Acid (PFDA)	0.981	J	ng/l	2.77	0.421	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.77	1.68	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.77	0.898	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.77	0.360	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.77	1.36	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	1.82	J	ng/l	2.77	1.11	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.77	0.515	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.77	0.453	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.77	0.344	1
PFOA/PFOS, Total	5.89		ng/l	2.77	0.327	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-03 R
Client ID: MW-84
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 13:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	116		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	141		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	121		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	98		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	100		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	130		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	106		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**192**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	112		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	83		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	138		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	57		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	74		55-137
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	57		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	61		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	65		22-136

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-04
Client ID: MW-81
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 14:05
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/25/22 17:22
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	1.8	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-04 Date Collected: 03/10/22 14:05

Client ID: MW-81 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	26		10-120
4-Terphenyl-d14	85		41-149

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-04
Client ID: MW-81
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 14:05
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/16/22 05:48
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 03/14/22 17:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	32.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	39		15-110

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-04
Client ID: MW-81
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 14:05
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/19/22 19:53
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 10:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.36		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.12		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.18		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.31		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.70		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.17		ug/l	0.10	0.01	1
Chrysene	0.34		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.02	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	1.1		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.11		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.11		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.81		ug/l	0.10	0.01	1
Pyrene	0.28		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.04	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-04 Date Collected: 03/10/22 14:05

Client ID: MW-81 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	52		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	54		10-120
4-Terphenyl-d14	79		41-149

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-04
Client ID: MW-81
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 14:05
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/26/22 01:52
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	16.4		ng/l	2.00	0.408	1
Perfluoropentanoic Acid (PFPeA)	20.0		ng/l	2.00	0.396	1
Perfluorobutanesulfonic Acid (PFBS)	7.20		ng/l	2.00	0.238	1
Perfluorohexanoic Acid (PFHxA)	27.2		ng/l	2.00	0.328	1
Perfluoroheptanoic Acid (PFHpA)	40.0		ng/l	2.00	0.225	1
Perfluorohexanesulfonic Acid (PFHxS)	15.6		ng/l	2.00	0.376	1
Perfluorooctanoic Acid (PFOA)	323		ng/l	2.00	0.236	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248	1
PFOA/PFOS, Total	323		ng/l	2.00	0.236	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-04 Date Collected: 03/10/22 14:05

Client ID: MW-81 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	86		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	106		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	81		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	88		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	115		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**207**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	105		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	83		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	127		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	73		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	82		55-137
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	73		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	88		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	71		22-136

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-04
Client ID: MW-81
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 14:05
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/30/22 09:53
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	79		10-112

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-05
Client ID: MW-82
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 15:20
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/28/22 02:07
Analyst: JRW

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 16:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-05 Date Collected: 03/10/22 15:20

Client ID: MW-82 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	60		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	70		41-149

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-05
Client ID: MW-82
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 15:20
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/16/22 06:09
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 03/14/22 17:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	139	31.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	43		15-110

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-05
Client ID: MW-82
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 15:20
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/19/22 20:09
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 17:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.56		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.09	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.32		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.68		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	1.9		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.46		ug/l	0.10	0.01	1
Chrysene	0.81		ug/l	0.10	0.01	1
Acenaphthylene	0.09	J	ug/l	0.10	0.01	1
Anthracene	0.12		ug/l	0.10	0.01	1
Benzo(ghi)perylene	1.6		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.13		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.28		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	1.6		ug/l	0.10	0.01	1
Pyrene	0.87		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.04	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-05 Date Collected: 03/10/22 15:20

Client ID: MW-82 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	68		41-149

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-05
Client ID: MW-82
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 15:20
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/26/22 02:09
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	18.6		ng/l	1.84	0.376	1
Perfluoropentanoic Acid (PFPeA)	6.19		ng/l	1.84	0.365	1
Perfluorobutanesulfonic Acid (PFBS)	0.884	J	ng/l	1.84	0.219	1
Perfluorohexanoic Acid (PFHxA)	2.40		ng/l	1.84	0.302	1
Perfluoroheptanoic Acid (PFHpA)	2.65		ng/l	1.84	0.207	1
Perfluorohexanesulfonic Acid (PFHxS)	12.8		ng/l	1.84	0.346	1
Perfluorooctanoic Acid (PFOA)	8.81		ng/l	1.84	0.217	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.84	1.23	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.84	0.634	1
Perfluorononanoic Acid (PFNA)	0.774	J	ng/l	1.84	0.287	1
Perfluorooctanesulfonic Acid (PFOS)	2.58	F	ng/l	1.84	0.464	1
Perfluorodecanoic Acid (PFDA)	1.25	J	ng/l	1.84	0.280	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.84	1.12	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.84	0.597	1
Perfluoroundecanoic Acid (PFUnA)	0.593	J	ng/l	1.84	0.240	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.84	0.903	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.84	0.534	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	1.90		ng/l	1.84	0.741	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.84	0.343	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.84	0.301	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.84	0.228	1
PFOA/PFOS, Total	11.4		ng/l	1.84	0.217	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-05 Date Collected: 03/10/22 15:20

Client ID: MW-82 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	97		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	108		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	110		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	85		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	93		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	113		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**425**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	109		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**399**	Q	10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**161**	Q	24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	97		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	26		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**161**	Q	27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	89		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	84		22-136

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-06
Client ID: MW-3
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 16:40
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/28/22 01:45
Analyst: JRW

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 15:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-06 Date Collected: 03/10/22 16:40

Client ID: MW-3 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	54		10-120
4-Terphenyl-d14	86		41-149

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-06
Client ID: MW-3
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 16:40
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/16/22 06:31
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 03/14/22 17:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	32.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	40		15-110

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-06
Client ID: MW-3
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 16:40
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/19/22 20:26
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 15:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.03	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.03	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.07	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.03	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.08	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Chrysene	0.03	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.02	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.08	J	ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.02	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.08	J	ug/l	0.10	0.01	1
Pyrene	0.03	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.05	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-06 Date Collected: 03/10/22 16:40

Client ID: MW-3 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

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	41		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	67		10-120
4-Terphenyl-d14	75		41-149

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-06 R
Client ID: MW-3
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 16:40
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/26/22 14:30
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	14.3		ng/l	2.08	0.425	1
Perfluoropentanoic Acid (PFPeA)	13.3		ng/l	2.08	0.412	1
Perfluorobutanesulfonic Acid (PFBS)	11.7		ng/l	2.08	0.248	1
Perfluorohexanoic Acid (PFHxA)	11.7		ng/l	2.08	0.341	1
Perfluoroheptanoic Acid (PFHpA)	10.5		ng/l	2.08	0.234	1
Perfluorohexanesulfonic Acid (PFHxS)	3.70		ng/l	2.08	0.391	1
Perfluorooctanoic Acid (PFOA)	53.0		ng/l	2.08	0.246	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	2.17		ng/l	2.08	1.39	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.08	0.716	1
Perfluorononanoic Acid (PFNA)	0.495	J	ng/l	2.08	0.325	1
Perfluorooctanesulfonic Acid (PFOS)	2.36		ng/l	2.08	0.524	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.08	0.316	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.08	1.26	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.08	0.674	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.08	0.271	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.08	1.02	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.08	0.604	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.08	0.837	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.08	0.387	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.08	0.340	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.08	0.258	1
PFOA/PFOS, Total	55.4		ng/l	2.08	0.246	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-06 R
Client ID: MW-3
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 16:40
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	106		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	76		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	116		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	106		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**197**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	103		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	142		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	89		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	95		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	16		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	101		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	86		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	76		22-136

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-07
Client ID: MW-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 17:30
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/28/22 01:22
Analyst: JRW

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 15:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.9	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-07 Date Collected: 03/10/22 17:30

Client ID: MW-8 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	58		10-120
Nitrobenzene-d5	105		23-120
2-Fluorobiphenyl	58		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	73		41-149

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-07
Client ID: MW-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 17:30
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/16/22 06:52
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 03/14/22 17:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	159.		ng/l	144	32.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	34		15-110

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-07 R
Client ID: MW-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 17:30
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/26/22 14:47
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	117		ng/l	1.97	0.401	1
Perfluoropentanoic Acid (PFPeA)	44.0		ng/l	1.97	0.389	1
Perfluorobutanesulfonic Acid (PFBS)	6.78		ng/l	1.97	0.234	1
Perfluorohexanoic Acid (PFHxA)	15.9		ng/l	1.97	0.322	1
Perfluoroheptanoic Acid (PFHpA)	31.9		ng/l	1.97	0.221	1
Perfluorohexanesulfonic Acid (PFHxS)	16.0		ng/l	1.97	0.370	1
Perfluorooctanoic Acid (PFOA)	175		ng/l	1.97	0.232	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	5.18		ng/l	1.97	1.31	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.97	0.676	1
Perfluorononanoic Acid (PFNA)	0.633	JF	ng/l	1.97	0.307	1
Perfluorooctanesulfonic Acid (PFOS)	2.08	F	ng/l	1.97	0.495	1
Perfluorodecanoic Acid (PFDA)	0.700	JF	ng/l	1.97	0.299	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.97	1.19	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.97	0.637	1
Perfluoroundecanoic Acid (PFUnA)	0.389	J	ng/l	1.97	0.256	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.97	0.963	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.97	0.570	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	5.55		ng/l	1.97	0.790	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.97	0.366	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.97	0.322	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.97	0.244	1
PFOA/PFOS, Total	177		ng/l	1.97	0.232	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-07 R
Client ID: MW-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 17:30
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	108		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	75		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	72		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	86		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	114		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	112		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**435**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	133		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	96		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**364**	Q	10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**138**	Q	24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	104		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	38		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**141**	Q	27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	91		22-136

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-07 D
Client ID: MW-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 17:30
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/30/22 17:05
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 15:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	6.4		ug/l	0.20	0.03	2
2-Chloronaphthalene	ND		ug/l	0.40	0.04	2
Fluoranthene	ND		ug/l	0.20	0.04	2
Hexachlorobutadiene	ND		ug/l	1.0	0.09	2
Naphthalene	ND		ug/l	0.20	0.10	2
Benzo(a)anthracene	0.10	J	ug/l	0.20	0.04	2
Benzo(a)pyrene	0.04	J	ug/l	0.20	0.03	2
Benzo(b)fluoranthene	0.09	J	ug/l	0.20	0.02	2
Benzo(k)fluoranthene	0.02	J	ug/l	0.20	0.02	2
Chrysene	0.17	J	ug/l	0.20	0.02	2
Acenaphthylene	1.8		ug/l	0.20	0.02	2
Anthracene	ND		ug/l	0.20	0.03	2
Benzo(ghi)perylene	0.06	J	ug/l	0.20	0.03	2
Fluorene	9.9		ug/l	0.20	0.03	2
Phenanthrene	16		ug/l	0.20	0.05	2
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.03	2
Indeno(1,2,3-cd)pyrene	0.06	J	ug/l	0.20	0.02	2
Pyrene	2.2		ug/l	0.20	0.04	2
2-Methylnaphthalene	ND		ug/l	0.20	0.04	2
Pentachlorophenol	ND		ug/l	1.6	0.03	2
Hexachlorobenzene	ND		ug/l	1.6	0.02	2
Hexachloroethane	ND		ug/l	1.6	0.13	2

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-07 D
Client ID: MW-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 17:30
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	80		10-120
4-Terphenyl-d14	70		41-149

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-08
Client ID: DUP003
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 00:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/25/22 17:45
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	1.5	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	1.1	J	ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-08 Date Collected: 03/10/22 00:00

Client ID: DUP003 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	83		41-149

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-08
Client ID: DUP003
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 00:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/16/22 07:13
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 03/14/22 17:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	150	33.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	42		15-110

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-08
Client ID: DUP003
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 00:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/19/22 20:59
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 10:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.28		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.12		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.22		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.45		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.13		ug/l	0.10	0.01	1
Chrysene	0.25		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.02	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.82		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.09	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.08	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.59		ug/l	0.10	0.01	1
Pyrene	0.21		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-08 Date Collected: 03/10/22 00:00

Client ID: DUP003 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

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	45		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	66		10-120
4-Terphenyl-d14	67		41-149

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-08
Client ID: DUP003
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 00:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/26/22 02:59
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	15.3		ng/l	1.97	0.401	1
Perfluoropentanoic Acid (PFPeA)	20.5		ng/l	1.97	0.390	1
Perfluorobutanesulfonic Acid (PFBS)	7.08		ng/l	1.97	0.234	1
Perfluorohexanoic Acid (PFHxA)	26.8		ng/l	1.97	0.323	1
Perfluoroheptanoic Acid (PFHpA)	39.4		ng/l	1.97	0.222	1
Perfluorohexanesulfonic Acid (PFHxS)	15.3		ng/l	1.97	0.370	1
Perfluorooctanoic Acid (PFOA)	323		ng/l	1.97	0.232	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.97	1.31	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.97	0.677	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.97	0.307	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.97	0.496	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.97	0.299	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.97	1.19	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.97	0.638	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.97	0.256	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.97	0.964	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.97	0.791	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.97	0.366	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.97	0.322	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.97	0.244	1
PFOA/PFOS, Total	323		ng/l	1.97	0.232	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-08 Date Collected: 03/10/22 00:00

Client ID: DUP003 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	109		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	81		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	84		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	79		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**187**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	83		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	97		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	65		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	114		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	44		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	56		55-137
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	48		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	53		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	50		22-136

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-08
Client ID: DUP003
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 00:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/30/22 10:01
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.97	0.571	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	61		10-112

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-09
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 17:50
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/31/22 15:06
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 15:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-09 Date Collected: 03/10/22 17:50

Client ID: EQUIPMENT BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	48		15-120
2,4,6-Tribromophenol	37		10-120
4-Terphenyl-d14	43		41-149

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-09
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 17:50
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/16/22 07:35
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 03/14/22 17:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	32.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	43		15-110

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-09
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 17:50
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/19/22 21:15
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 15:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-09 Date Collected: 03/10/22 17:50

Client ID: EQUIPMENT BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	59		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	95		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	88		41-149

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-09
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 17:50
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/26/22 03:15
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.84	0.376	1
Perfluoropentanoic Acid (PFPeA)	0.368	J	ng/l	1.84	0.365	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.84	0.219	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.84	0.302	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.84	0.207	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.84	0.346	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.84	0.217	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.84	1.23	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.84	0.634	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.84	0.287	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.84	0.464	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.84	0.280	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.84	1.12	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.84	0.597	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.84	0.239	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.84	0.903	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.84	0.534	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.84	0.740	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.84	0.343	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.84	0.301	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.84	0.228	1
PFOA/PFOS, Total	ND		ng/l	1.84	0.217	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-09 Date Collected: 03/10/22 17:50

Client ID: EQUIPMENT BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	103		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	133		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	107		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	102		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	103		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	114		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	105		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	98		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	109		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	109		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	109		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	115		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	109		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	43		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	119		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	110		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	94		22-136

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-10
Client ID: FIELD BLANK
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 18:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/26/22 03:32
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.86	0.380	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.86	0.368	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.86	0.221	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.86	0.305	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.86	0.210	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.86	0.350	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.86	0.220	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.86	1.24	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.86	0.640	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.86	0.290	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.86	0.469	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.86	0.283	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.86	1.13	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.86	0.603	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.86	0.242	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.86	0.912	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.86	0.540	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.86	0.748	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.86	0.346	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.86	0.304	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.86	0.231	1
PFOA/PFOS, Total	ND		ng/l	1.86	0.220	1

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-10 Date Collected: 03/10/22 18:00

Client ID: FIELD BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	104		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	134		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	110		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	102		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	103		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	113		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	97		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	109		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	107		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	109		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**119**	Q	24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	114		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	34		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	115		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	113		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	99		22-136

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 03/16/22 00:25
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 03/14/22 17:02

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 01-09 Batch: WG1615435-1					
1,4-Dioxane	ND		ng/l	150	33.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	41		15-110

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 03/18/22 20:45
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 10:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-09 Batch: WG1616761-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	0.03	J	ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 03/18/22 20:45
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 10:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-09 Batch: WG1616761-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	55		15-120
2,4,6-Tribromophenol	27		10-120
4-Terphenyl-d14	64		41-149

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/25/22 09:59
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 10:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1616762-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/25/22 09:59
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 10:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1616762-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/25/22 09:59
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 10:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1616762-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	49		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	17		10-120
4-Terphenyl-d14	64		41-149

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/21/22 21:52
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 08:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-10 Batch: WG1617787-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/21/22 21:52
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 08:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-10 Batch: WG1617787-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	104		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	119		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	110		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	97		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	99		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	106		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	143		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	146		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	83		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	98		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	45		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	93		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	88		22-136

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/30/22 09:32
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 08:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-10 Batch: WG1617787-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	82		10-112

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212899

Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab	Associated sample(s): 01-09		Batch: WG1615435-2 WG1615435-3					
1,4-Dioxane	124		125		40-140	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	38		41		15-110

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212899
Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-09 Batch: WG1616761-2 WG1616761-3								
Acenaphthene	71		65		40-140	9		40
2-Chloronaphthalene	67		61		40-140	9		40
Fluoranthene	74		68		40-140	8		40
Hexachlorobutadiene	63		56		40-140	12		40
Naphthalene	65		58		40-140	11		40
Benzo(a)anthracene	72		69		40-140	4		40
Benzo(a)pyrene	68		62		40-140	9		40
Benzo(b)fluoranthene	79		71		40-140	11		40
Benzo(k)fluoranthene	76		72		40-140	5		40
Chrysene	74		66		40-140	11		40
Acenaphthylene	60		55		40-140	9		40
Anthracene	72		65		40-140	10		40
Benzo(ghi)perylene	77		73		40-140	5		40
Fluorene	72		66		40-140	9		40
Phenanthrene	72		66		40-140	9		40
Dibenzo(a,h)anthracene	81		75		40-140	8		40
Indeno(1,2,3-cd)pyrene	78		74		40-140	5		40
Pyrene	75		69		40-140	8		40
2-Methylnaphthalene	67		60		40-140	11		40
Pentachlorophenol	**3**	Q	**4**	Q	40-140	16		40
Hexachlorobenzene	74		67		40-140	10		40
Hexachloroethane	64		60		40-140	6		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2212899
Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-09 Batch: WG1616761-2 WG1616761-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	54		34		21-120
Phenol-d6	49		36		10-120
Nitrobenzene-d5	69		62		23-120
2-Fluorobiphenyl	66		59		15-120
2,4,6-Tribromophenol	51		32		10-120
4-Terphenyl-d14	75		68		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212899
Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1616762-2 WG1616762-3								
Acenaphthene	60		57		37-111	5		30
1,2,4-Trichlorobenzene	51		50		39-98	2		30
Hexachlorobenzene	60		56		40-140	7		30
Bis(2-chloroethyl)ether	55		53		40-140	4		30
2-Chloronaphthalene	56		54		40-140	4		30
1,2-Dichlorobenzene	51		52		40-140	2		30
1,3-Dichlorobenzene	51		51		40-140	0		30
1,4-Dichlorobenzene	51		52		36-97	2		30
3,3'-Dichlorobenzidine	47		44		40-140	7		30
2,4-Dinitrotoluene	55		52		48-143	6		30
2,6-Dinitrotoluene	54		54		40-140	0		30
Fluoranthene	65		61		40-140	6		30
4-Chlorophenyl phenyl ether	61		58		40-140	5		30
4-Bromophenyl phenyl ether	61		57		40-140	7		30
Bis(2-chloroisopropyl)ether	56		57		40-140	2		30
Bis(2-chloroethoxy)methane	56		55		40-140	2		30
Hexachlorobutadiene	51		49		40-140	4		30
Hexachlorocyclopentadiene	**34**	Q	**34**	Q	40-140	0		30
Hexachloroethane	49		50		40-140	2		30
Isophorone	54		53		40-140	2		30
Naphthalene	55		53		40-140	4		30
Nitrobenzene	53		55		40-140	4		30
NDPA/DPA	59		56		40-140	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212899
Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1616762-2 WG1616762-3								
n-Nitrosodi-n-propylamine	58		57		29-132	2		30
Bis(2-ethylhexyl)phthalate	66		64		40-140	3		30
Butyl benzyl phthalate	65		63		40-140	3		30
Di-n-butylphthalate	69		67		40-140	3		30
Di-n-octylphthalate	67		65		40-140	3		30
Diethyl phthalate	62		60		40-140	3		30
Dimethyl phthalate	61		57		40-140	7		30
Benzo(a)anthracene	65		61		40-140	6		30
Benzo(a)pyrene	63		60		40-140	5		30
Benzo(b)fluoranthene	68		64		40-140	6		30
Benzo(k)fluoranthene	66		60		40-140	10		30
Chrysene	64		60		40-140	6		30
Acenaphthylene	58		56		45-123	4		30
Anthracene	63		57		40-140	10		30
Benzo(ghi)perylene	65		62		40-140	5		30
Fluorene	63		58		40-140	8		30
Phenanthrene	63		58		40-140	8		30
Dibenzo(a,h)anthracene	68		64		40-140	6		30
Indeno(1,2,3-cd)pyrene	70		66		40-140	6		30
Pyrene	64		60		26-127	6		30
Biphenyl	58		56		40-140	4		30
4-Chloroaniline	44		**39**	Q	40-140	12		30
2-Nitroaniline	53		52		52-143	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212899
Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1616762-2 WG1616762-3								
3-Nitroaniline	46		43		25-145	7		30
4-Nitroaniline	**49**	Q	**49**	Q	51-143	0		30
Dibenzofuran	61		57		40-140	7		30
2-Methylnaphthalene	57		54		40-140	5		30
1,2,4,5-Tetrachlorobenzene	55		52		2-134	6		30
Acetophenone	54		53		39-129	2		30
2,4,6-Trichlorophenol	50		**22**	Q	30-130	**78**	Q	30
p-Chloro-m-cresol	60		53		23-97	12		30
2-Chlorophenol	54		34		27-123	**45**	Q	30
2,4-Dichlorophenol	57		35		30-130	**48**	Q	30
2,4-Dimethylphenol	41		50		30-130	20		30
2-Nitrophenol	50		30		30-130	**50**	Q	30
4-Nitrophenol	44		21		10-80	**71**	Q	30
2,4-Dinitrophenol	34		**0**	Q	20-130	NC		30
4,6-Dinitro-o-cresol	37		**17**	Q	20-164	**74**	Q	30
Pentachlorophenol	24		10		9-103	**83**	Q	30
Phenol	41		29		12-110	**34**	Q	30
2-Methylphenol	51		48		30-130	6		30
3-Methylphenol/4-Methylphenol	55		48		30-130	14		30
2,4,5-Trichlorophenol	55		31		30-130	**56**	Q	30
Benzoic Acid	37		**0**	Q	10-164	NC		30
Benzyl Alcohol	51		52		26-116	2		30
Carbazole	64		60		55-144	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212899
Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1616762-2 WG1616762-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	48		26		21-120
Phenol-d6	42		27		10-120
Nitrobenzene-d5	52		52		23-120
2-Fluorobiphenyl	57		54		15-120
2,4,6-Tribromophenol	51		23		10-120
4-Terphenyl-d14	65		59		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212899

Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 Batch: WG1617787-2								
Perfluorobutanoic Acid (PFBA)	99		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	99		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	96		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	102		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	100		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	125		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	99		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	122		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	96		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	96		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	120		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	101		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	127		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	97		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	110		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	104		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	100		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	115		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	97		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	107		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	104		-		59-182	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 Batch: WG1617787-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	106				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	122				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	112				70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	102				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	104				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	107				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	106				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**150**	Q			14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	108				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	105				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	153				10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	94				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	49				10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	99				27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	102				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	97				22-136

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212899

Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 Batch: WG1617787-2								
Perfluorooctanesulfonamide (FOSA)	120		-		46-170	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	93				10-112

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212899

Report Date: 04/01/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab	Associated sample(s): 01-09		QC Batch ID: WG1615435-4			WG1615435-5		QC Sample: L2212899-02		Client ID: MW-6		
1,4-Dioxane	110.J	4630	5770	125		6050	126		40-140	5		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,4-Dioxane-d8	37		37		15-110

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2212899
Report Date: 04/01/22

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-SIM - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1616761-4 WG1616761-5 QC Sample: L2212899-02 Client ID: MW-6												
Acenaphthene	3.9	18.2	17	72		17	72		40-140	0		40
2-Chloronaphthalene	ND	18.2	13	72		12	66		40-140	8		40
Fluoranthene	0.41	18.2	14	75		12	64		40-140	15		40
Hexachlorobutadiene	ND	18.2	12	66		11	61		40-140	9		40
Naphthalene	0.68	18.2	14	73		13	68		40-140	7		40
Benzo(a)anthracene	0.11	18.2	14	76		14	76		40-140	0		40
Benzo(a)pyrene	0.13	18.2	13	71		12	65		40-140	8		40
Benzo(b)fluoranthene	0.46	18.2	15	80		15	80		40-140	0		40
Benzo(k)fluoranthene	0.10	18.2	14	77		13	72		40-140	7		40
Chrysene	0.38	18.2	14	75		13	69		40-140	7		40
Acenaphthylene	2.0	18.2	14	66		12	55		40-140	15		40
Anthracene	1.2	18.2	14	70		13	65		40-140	7		40
Benzo(ghi)perylene	0.36	18.2	16	86		15	81		40-140	6		40
Fluorene	5.4	18.2	19	75		19	75		40-140	0		40
Phenanthrene	6.3	18.2	21	81		20	75		40-140	5		40
Dibenzo(a,h)anthracene	0.05J	18.2	16	88		15	83		40-140	6		40
Indeno(1,2,3-cd)pyrene	0.38	18.2	16	86		15	80		40-140	6		40
Pyrene	2.1	18.2	17	82		14	65		40-140	19		40
2-Methylnaphthalene	5.8	18.2	19	73		19	73		40-140	0		40
Pentachlorophenol	ND	18.2	16	88		14	77		40-140	13		40
Hexachlorobenzene	ND	18.2	14	77		14	77		40-140	0		40
Hexachloroethane	ND	18.2	13	72		12	66		40-140	8		40

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101 ***Lab Number:*** L2212899

Project Number: TOT2101 ***Report Date:*** 04/01/22

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-SIM - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1616761-4 WG1616761-5 QC Sample: L2212899-02 Client ID: MW-6												

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
2,4,6-Tribromophenol	81		72		10-120
2-Fluorobiphenyl	69		68		15-120
2-Fluorophenol	56		54		21-120
4-Terphenyl-d14	80		70		41-149
Nitrobenzene-d5	75		72		23-120
Phenol-d6	54		53		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

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): 01-09 QC Batch ID: WG1616762-4 WG1616762-5 QC Sample: L2212899-02 Client ID: MW-6												
1,2,4-Trichlorobenzene	ND	18.2	13	72		12	66		39-98	8		30
Bis(2-chloroethyl)ether	ND	18.2	13	72		12	66		40-140	8		30
1,2-Dichlorobenzene	ND	18.2	12	66		11	61		40-140	9		30
1,3-Dichlorobenzene	ND	18.2	12	66		11	61		40-140	9		30
1,4-Dichlorobenzene	ND	18.2	12	66		12	66		36-97	0		30
3,3'-Dichlorobenzidine	ND	18.2	ND	**0**	Q	ND	**0**	Q	40-140	NC		30
2,4-Dinitrotoluene	ND	18.2	19	100		17	94		48-143	11		30
2,6-Dinitrotoluene	ND	18.2	24	130		20	110		40-140	18		30
4-Chlorophenyl phenyl ether	ND	18.2	14	77		13	72		40-140	7		30
4-Bromophenyl phenyl ether	ND	18.2	15	83		14	77		40-140	7		30
Bis(2-chloroisopropyl)ether	ND	18.2	14	77		13	72		40-140	7		30
Bis(2-chloroethoxy)methane	ND	18.2	14	77		13	72		40-140	7		30
Hexachlorocyclopentadiene	ND	18.2	8.6J	47		7.7J	42		40-140	11		30
Isophorone	ND	18.2	14	77		13	72		40-140	7		30
Nitrobenzene	ND	18.2	16	88		17	94		40-140	6		30
NDPA/DPA	ND	18.2	30	**170**	Q	25	140		40-140	18		30
n-Nitrosodi-n-propylamine	ND	18.2	16	88		16	88		29-132	0		30
Bis(2-ethylhexyl)phthalate	8.7	18.2	25	90		22	73		40-140	13		30
Butyl benzyl phthalate	ND	18.2	17	94		16	88		40-140	6		30
Di-n-butylphthalate	ND	18.2	16	88		16	88		40-140	0		30
Di-n-octylphthalate	ND	18.2	18	99		17	94		40-140	6		30
Diethyl phthalate	ND	18.2	14	77		13	72		40-140	7		30
Dimethyl phthalate	ND	18.2	14	77		13	72		40-140	7		30

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2212899
Report Date: 04/01/22

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): 01-09 QC Batch ID: WG1616762-4 WG1616762-5 QC Sample: L2212899-02 Client ID: MW-6												
Biphenyl	ND	18.2	13	72		12	66		40-140	8		30
4-Chloroaniline	ND	18.2	3.3J	**18**	Q	2.9J	**16**	Q	40-140	13		30
2-Nitroaniline	ND	18.2	15	83		14	77		52-143	7		30
3-Nitroaniline	ND	18.2	7.5	41		6.0	33		25-145	22		30
4-Nitroaniline	ND	18.2	7.8	**43**	Q	7.3	**40**	Q	51-143	7		30
Dibenzofuran	2.6	18.2	16	74		15	68		40-140	6		30
1,2,4,5-Tetrachlorobenzene	ND	18.2	12	66		11	61		2-134	9		30
Acetophenone	ND	18.2	14	77		13	72		39-129	7		30
2,4,6-Trichlorophenol	ND	18.2	14	77		13	72		30-130	7		30
p-Chloro-m-cresol	ND	18.2	18	**99**	Q	16	88		23-97	12		30
2-Chlorophenol	ND	18.2	14	77		13	72		27-123	7		30
2,4-Dichlorophenol	ND	18.2	16	88		14	77		30-130	13		30
2,4-Dimethylphenol	ND	18.2	14	77		11	61		30-130	24		30
2-Nitrophenol	ND	18.2	14	77		14	77		30-130	0		30
4-Nitrophenol	ND	18.2	24	**130**	Q	16	**88**	Q	10-80	**40**	Q	30
2,4-Dinitrophenol	ND	18.2	15.J	83		14.J	77		20-130	7		30
4,6-Dinitro-o-cresol	ND	18.2	14	77		12	66		20-164	15		30
Phenol	ND	18.2	11	61		11	61		12-110	0		30
2-Methylphenol	ND	18.2	14	77		13	72		30-130	7		30
3-Methylphenol/4-Methylphenol	ND	18.2	14	77		13	72		30-130	7		30
2,4,5-Trichlorophenol	ND	18.2	14	77		13	72		30-130	7		30
Benzoic Acid	ND	18.2	18.J	99		17.J	94		10-164	6		30
Benzyl Alcohol	ND	18.2	14	77		14	77		26-116	0		30

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2212899
Report Date: 04/01/22

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): 01-09 QC Batch ID: WG1616762-4 WG1616762-5 QC Sample: L2212899-02 Client ID: MW-6												
Carbazole	ND	18.2	15	83		14	77		55-144	7		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	86		77		10-120
2-Fluorobiphenyl	70		65		15-120
2-Fluorophenol	68		67		21-120
4-Terphenyl-d14	76		75		41-149
Nitrobenzene-d5	91		84		23-120
Phenol-d6	60		60		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101 ***Lab Number:*** L2212899

Project Number: TOT2101 ***Report Date:*** 04/01/22

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1617787-3 WG1617787-4 QC Sample: L2212899-02 Client ID: MW-6												
Perfluorobutanoic Acid (PFBA)	8.70	35.9	49.3	113		48.8	112		67-148	1		30
Perfluoropentanoic Acid (PFPeA)	29.7	35.9	67.6	106		71.2	116		63-161	5		30
Perfluorobutanesulfonic Acid (PFBS)	8.13	31.8	40.2	101		40.4	101		65-157	0		30
Perfluorohexanoic Acid (PFHxA)	32.9	35.9	71.2	107		70.1	104		69-168	2		30
Perfluoroheptanoic Acid (PFHpA)	7.09	35.9	45.2	106		44.5	104		58-159	2		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	32.8	44.0	134		44.4	136		69-177	1		30
Perfluorooctanoic Acid (PFOA)	0.824J	35.9	36.3	99		35.5	97		63-159	2		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	8.31	34.2	58.5	147		48.3	117		49-187	19		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	34.2	34.1	100		31.9	93		61-179	7		30
Perfluorononanoic Acid (PFNA)	ND	35.9	34.8	97		33.4	93		68-171	4		30
Perfluorooctanesulfonic Acid (PFOS)	5.84	33.3	44.7	117		41.9	109		52-151	6		30
Perfluorodecanoic Acid (PFDA)	ND	35.9	35.2	98		33.8	94		63-171	4		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	34.4	45.8	133		39.3	114		56-173	15		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	35.9	35.3	98		35.2F	98		60-166	0		30
Perfluoroundecanoic Acid (PFUnA)	ND	35.9	36.2	101		38.1	106		60-153	5		30
Perfluorodecanesulfonic Acid (PFDS)	ND	34.6	28.8	83		26.8	78		38-156	7		30
Perfluorooctanesulfonamide (FOSA)	ND	35.9	36.8	103		33.0	92		46-170	11		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	3.54	35.9	40.7	104		45.7	118		45-170	12		30
Perfluorododecanoic Acid (PFDoA)	0.351JF	35.9	32.1	88		33.5	93		67-153	4		30
Perfluorotridecanoic Acid (PFTrDA)	ND	35.9	35.7	100		36.4	102		48-158	2		30
Perfluorotetradecanoic Acid (PFTA)	ND	35.9	35.7	100		36.5	102		59-182	2		30

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101 ***Lab Number:*** L2212899

Project Number: TOT2101 ***Report Date:*** 04/01/22

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1617787-3 WG1617787-4 QC Sample: L2212899-02 Client ID: MW-6												

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**405**	Q	**424**	Q	10-162
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**460**	Q	**436**	Q	14-147
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**153**	Q	**156**	Q	27-126
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**133**	Q	**155**	Q	24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	87		91		55-137
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	96		98		62-124
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	76		76		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91		92		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	107		100		71-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		84		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	80		79		22-136
Perfluoro[13C4]Butanoic Acid (MPFBA)	103		105		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	99		100		62-163
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	26		28		10-112
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	104		101		69-131
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		105		62-129
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	119		119		59-139
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	101		95		70-131

PCBS

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-01
Client ID: MW-31
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 10:10
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 03/30/22 13:06
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 03/29/22 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/29/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/29/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-02
Client ID: MW-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 11:15
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 03/30/22 12:26
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 03/29/22 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/29/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/29/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-03
Client ID: MW-84
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 13:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 03/30/22 12:50
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 03/29/22 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/29/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/29/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-04
Client ID: MW-81
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 14:05
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 03/30/22 12:58
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 03/29/22 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/29/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/29/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-05 D
Client ID: MW-82
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 15:20
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 03/31/22 11:49
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 03/30/22 15:22
Cleanup Method: EPA 3665A
Cleanup Date: 03/31/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/31/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.357	0.305	5	A
Aroclor 1221	ND		ug/l	0.357	0.305	5	A
Aroclor 1232	ND		ug/l	0.357	0.305	5	A
Aroclor 1242	ND		ug/l	0.357	0.305	5	A
Aroclor 1248	ND		ug/l	0.357	0.305	5	A
Aroclor 1254	ND		ug/l	0.357	0.305	5	A
Aroclor 1260	ND		ug/l	0.357	0.305	5	A
Aroclor 1262	ND		ug/l	0.357	0.305	5	A
Aroclor 1268	ND		ug/l	0.357	0.305	5	A
PCBs, Total	ND		ug/l	0.357	0.305	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	95		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-06
Client ID: MW-3
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 16:40
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 03/30/22 13:14
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 03/29/22 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/29/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/29/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-07
Client ID: MW-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 17:30
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 03/30/22 13:22
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 03/29/22 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/29/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/29/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-08
Client ID: DUP003
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 00:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 03/30/22 13:30
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 03/29/22 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/29/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/29/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-09
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 17:50
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 03/30/22 13:38
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 03/29/22 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/29/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/29/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/30/22 10:39
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 03/29/22 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/29/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/29/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-04,06-09 Batch: WG1621002-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/31/22 11:25
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 03/30/22 15:22
Cleanup Method: EPA 3665A
Cleanup Date: 03/31/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/31/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 05 Batch: WG1621613-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	106		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	100		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212899
Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-04,06-09 Batch: WG1621002-2 WG1621002-3									
Aroclor 1016	85		80		40-140	7		50	A
Aroclor 1260	83		80		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		64		30-150	A
Decachlorobiphenyl	95		94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		61		30-150	B
Decachlorobiphenyl	87		84		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212899

Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 05 Batch: WG1621613-2 WG1621613-3									
Aroclor 1016	89		93		40-140	5		50	A
Aroclor 1260	87		96		40-140	10		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		94		30-150	A
Decachlorobiphenyl	106		118		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		93		30-150	B
Decachlorobiphenyl	104		109		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2212899
Report Date: 04/01/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-04,06-09 QC Batch ID: WG1621002-4 WG1621002-5 QC Sample: L2212899-02 Client ID: MW-6													
Aroclor 1016	ND	1.78	1.27	71		1.28	72		40-140	1		50	A
Aroclor 1260	ND	1.78	1.36	76		1.32	74		40-140	3		50	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		64		30-150	A
Decachlorobiphenyl	93		86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		62		30-150	B
Decachlorobiphenyl	85		78		30-150	B

PESTICIDES

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-01
Client ID: MW-31
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 10:10
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 03/18/22 16:48
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 04:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-01 Date Collected: 03/10/22 10:10

Client ID: MW-31 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-02
Client ID: MW-6
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 11:15
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 03/18/22 15:30
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 04:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-02 Date Collected: 03/10/22 11:15

Client ID: MW-6 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	94		30-150	B

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-03
Client ID: MW-84
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 13:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 03/18/22 16:59
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 02:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-03 Date Collected: 03/10/22 13:00

Client ID: MW-84 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-04
Client ID: MW-81
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 14:05
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 03/18/22 17:11
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 02:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-04 Date Collected: 03/10/22 14:05

Client ID: MW-81 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-05
Client ID: MW-82
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 15:20
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 03/18/22 17:22
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 02:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-05 Date Collected: 03/10/22 15:20

Client ID: MW-82 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	95		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	117		30-150	B

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-06
Client ID: MW-3
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 16:40
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 03/18/22 17:33
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 02:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-06 Date Collected: 03/10/22 16:40

Client ID: MW-3 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-07
Client ID: MW-8
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 17:30
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 03/18/22 17:44
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 02:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-07 Date Collected: 03/10/22 17:30

Client ID: MW-8 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-08
Client ID: DUP003
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 00:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 03/18/22 17:55
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 02:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-08 Date Collected: 03/10/22 00:00

Client ID: DUP003 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-09
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE., BROOKLYN

Date Collected: 03/10/22 17:50
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 03/18/22 18:07
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 02:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-09 Date Collected: 03/10/22 17:50

Client ID: EQUIPMENT BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/18/22 14:45
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 02:45

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-09 Batch: WG1616582-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/18/22 14:45
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 02:45

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-09 Batch: WG1616582-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	73		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212899

Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-09 Batch: WG1616582-2 WG1616582-3									
Delta-BHC	87		90		30-150	3		20	A
Lindane	96		101		30-150	5		20	A
Alpha-BHC	98		102		30-150	4		20	A
Beta-BHC	96		106		30-150	10		20	A
Heptachlor	99		103		30-150	4		20	A
Aldrin	96		104		30-150	9		20	A
Heptachlor epoxide	90		96		30-150	7		20	A
Endrin	99		107		30-150	8		20	A
Endrin aldehyde	94		98		30-150	5		20	A
Endrin ketone	95		104		30-150	9		20	A
Dieldrin	103		112		30-150	8		20	A
4,4'-DDE	92		100		30-150	8		20	A
4,4'-DDD	104		112		30-150	7		20	A
4,4'-DDT	100		107		30-150	7		20	A
Endosulfan I	94		101		30-150	7		20	A
Endosulfan II	97		104		30-150	7		20	A
Endosulfan sulfate	99		105		30-150	6		20	A
Methoxychlor	97		100		30-150	3		20	A
cis-Chlordane	83		92		30-150	11		20	A
trans-Chlordane	104		108		30-150	4		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212899

Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-09 Batch: WG1616582-2 WG1616582-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		98		30-150	A
Decachlorobiphenyl	99		109		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		77		30-150	B
Decachlorobiphenyl	77		85		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2212899
Report Date: 04/01/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1616582-4 WG1616582-5 QC Sample: L2212899-02 Client ID: MW-6													
Delta-BHC	ND	0.357	0.223	62		0.210	59		30-150	6		30	A
Lindane	ND	0.357	0.222	62		0.221	62		30-150	0		30	A
Alpha-BHC	ND	0.357	0.276	77		0.283	79		30-150	3		30	A
Beta-BHC	ND	0.357	0.251	70		0.244	68		30-150	3		30	A
Heptachlor	ND	0.357	0.245	69		0.228	64		30-150	7		30	A
Aldrin	ND	0.357	0.255	71		0.233	65		30-150	9		30	A
Heptachlor epoxide	ND	0.357	0.238	67		0.223	62		30-150	7		30	A
Endrin	ND	0.357	0.404	113		0.393	110		30-150	3		30	A
Endrin aldehyde	ND	0.357	0.292	82		0.274	77		30-150	6		30	A
Endrin ketone	ND	0.357	0.323	90		0.301	84		30-150	7		30	A
Dieldrin	ND	0.357	0.304	85		0.295	83		30-150	3		30	A
4,4'-DDE	ND	0.357	0.255	71		0.239	67		30-150	6		30	A
4,4'-DDD	ND	0.357	0.300	84		0.280	78		30-150	7		30	A
4,4'-DDT	ND	0.357	0.316	88		0.284	80		30-150	11		30	A
Endosulfan I	ND	0.357	0.285	80		0.266	74		30-150	7		30	A
Endosulfan II	ND	0.357	0.330	92		0.309	86		30-150	7		30	A
Endosulfan sulfate	ND	0.357	0.333	93		0.330	92		30-150	1		30	A
Methoxychlor	ND	0.357	0.342	96		0.337	94		30-150	1		30	A
cis-Chlordane	ND	0.357	0.283	79		0.255	71		30-150	10		30	A
trans-Chlordane	ND	0.357	0.320	90		0.306	86		30-150	4		30	A

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101 ***Lab Number:*** L2212899

Project Number: TOT2101 ***Report Date:*** 04/01/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1616582-4 WG1616582-5 QC Sample: L2212899-02 Client ID: MW-6												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		61		30-150	A
Decachlorobiphenyl	92		78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		66		30-150	B
Decachlorobiphenyl	104		79		30-150	B

METALS

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-01 Date Collected: 03/10/22 10:10

Client ID: MW-31 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0709		mg/l	0.0100	0.00327	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Arsenic, Total	0.2016		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Barium, Total	0.5369		mg/l	0.00050	0.00017	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Cadmium, Total	0.00012	J	mg/l	0.00020	0.00005	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Calcium, Total	163.		mg/l	0.100	0.0394	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Chromium, Total	0.00087	J	mg/l	0.00100	0.00017	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Cobalt, Total	0.00079		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Copper, Total	0.00342		mg/l	0.00100	0.00038	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Iron, Total	89.4		mg/l	0.0500	0.0191	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Lead, Total	0.00107		mg/l	0.00100	0.00034	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Magnesium, Total	44.1		mg/l	0.0700	0.0242	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Manganese, Total	1.080		mg/l	0.00100	0.00044	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/17/22 16:26	03/30/22 20:08	EPA 7470A	1,7470A	ZK
Nickel, Total	0.00185	J	mg/l	0.00200	0.00055	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Potassium, Total	2.08		mg/l	0.100	0.0309	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Sodium, Total	116.		mg/l	0.100	0.0293	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Thallium, Total	0.00014	J	mg/l	0.00200	0.00014	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Zinc, Total	0.01324		mg/l	0.01000	0.00341	1	03/17/22 15:18	03/23/22 17:42	EPA 3005A	1,6020B	SV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00345	J	mg/l	0.0100	0.00327	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV
Antimony, Dissolved	0.00846		mg/l	0.00400	0.00042	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV
Arsenic, Dissolved	0.00796		mg/l	0.00050	0.00016	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV
Barium, Dissolved	0.3311		mg/l	0.00050	0.00017	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-01 Date Collected: 03/10/22 10:10

Client ID: MW-31 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV
Calcium, Dissolved	212.		mg/l	0.100	0.0394	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV
Chromium, Dissolved	0.00028	J	mg/l	0.00100	0.00017	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV
Cobalt, Dissolved	0.00072		mg/l	0.00050	0.00016	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV
Copper, Dissolved	0.00041	J	mg/l	0.00100	0.00038	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV
Iron, Dissolved	58.2		mg/l	0.0500	0.0191	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV
Magnesium, Dissolved	50.2		mg/l	0.0700	0.0242	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV
Manganese, Dissolved	1.288		mg/l	0.00100	0.00044	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	03/25/22 12:57	03/30/22 22:24	EPA 7470A	1,7470A	ZK
Nickel, Dissolved	0.00135	J	mg/l	0.00200	0.00055	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV
Potassium, Dissolved	2.80		mg/l	0.100	0.0309	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV
Sodium, Dissolved	162.		mg/l	0.100	0.0293	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV
Thallium, Dissolved	0.00035	J	mg/l	0.00100	0.00014	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	03/25/22 12:11	03/28/22 11:16	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-02 Date Collected: 03/10/22 11:15

Client ID: MW-6 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.177		mg/l	0.0100	0.00327	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Antimony, Total	0.00069	J	mg/l	0.00400	0.00042	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Arsenic, Total	0.06514		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Barium, Total	0.2761		mg/l	0.00050	0.00017	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Cadmium, Total	0.00451		mg/l	0.00020	0.00005	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Calcium, Total	107.		mg/l	0.100	0.0394	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Chromium, Total	0.00111		mg/l	0.00100	0.00017	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Cobalt, Total	0.00338		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Copper, Total	0.01450		mg/l	0.00100	0.00038	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Iron, Total	71.1		mg/l	0.0500	0.0191	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Lead, Total	0.00737		mg/l	0.00100	0.00034	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Magnesium, Total	53.1		mg/l	0.0700	0.0242	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Manganese, Total	2.828		mg/l	0.00100	0.00044	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Mercury, Total	0.00009	J	mg/l	0.00020	0.00009	1	03/17/22 16:26	03/30/22 19:48	EPA 7470A	1,7470A	ZK
Nickel, Total	0.00663		mg/l	0.00200	0.00055	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Potassium, Total	2.99		mg/l	0.100	0.0309	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Sodium, Total	257.		mg/l	0.100	0.0293	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Thallium, Total	0.00032	J	mg/l	0.00200	0.00014	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Vanadium, Total	0.00314	J	mg/l	0.00500	0.00157	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Zinc, Total	0.08963		mg/l	0.01000	0.00341	1	03/17/22 15:18	03/23/22 17:03	EPA 3005A	1,6020B	SV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV
Antimony, Dissolved	0.00050	J	mg/l	0.00400	0.00042	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV
Arsenic, Dissolved	0.00262		mg/l	0.00050	0.00016	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV
Barium, Dissolved	0.1772		mg/l	0.00050	0.00017	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-02 Date Collected: 03/10/22 11:15

Client ID: MW-6 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV
Calcium, Dissolved	126.		mg/l	0.100	0.0394	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV
Cobalt, Dissolved	0.00371		mg/l	0.00050	0.00016	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV
Iron, Dissolved	42.8		mg/l	0.0500	0.0191	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV
Magnesium, Dissolved	61.1		mg/l	0.0700	0.0242	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV
Manganese, Dissolved	3.356		mg/l	0.00100	0.00044	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	03/25/22 12:57	03/30/22 22:14	EPA 7470A	1,7470A	ZK
Nickel, Dissolved	0.00533		mg/l	0.00200	0.00055	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV
Potassium, Dissolved	3.35		mg/l	0.100	0.0309	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV
Sodium, Dissolved	326.		mg/l	0.100	0.0293	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV
Thallium, Dissolved	0.00027	J	mg/l	0.00100	0.00014	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV
Zinc, Dissolved	0.00623	J	mg/l	0.01000	0.00341	1	03/25/22 12:11	03/28/22 10:27	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-03 Date Collected: 03/10/22 13:00

Client ID: MW-84 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4.27		mg/l	0.0100	0.00327	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Antimony, Total	0.00193	J	mg/l	0.00400	0.00042	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Arsenic, Total	0.02830		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Barium, Total	0.05561		mg/l	0.00050	0.00017	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Beryllium, Total	0.00045	J	mg/l	0.00050	0.00010	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Cadmium, Total	0.00025		mg/l	0.00020	0.00005	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Calcium, Total	16.0		mg/l	0.100	0.0394	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Chromium, Total	0.00913		mg/l	0.00100	0.00017	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Cobalt, Total	0.00683		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Copper, Total	0.01643		mg/l	0.00100	0.00038	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Iron, Total	7.76		mg/l	0.0500	0.0191	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Lead, Total	0.00977		mg/l	0.00100	0.00034	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Magnesium, Total	4.66		mg/l	0.0700	0.0242	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Manganese, Total	0.3720		mg/l	0.00100	0.00044	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/17/22 16:26	03/30/22 20:12	EPA 7470A	1,7470A	ZK
Nickel, Total	0.02267		mg/l	0.00200	0.00055	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Potassium, Total	2.43		mg/l	0.100	0.0309	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Sodium, Total	23.2		mg/l	0.100	0.0293	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Thallium, Total	0.00017	J	mg/l	0.00200	0.00014	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Vanadium, Total	0.01251		mg/l	0.00500	0.00157	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Zinc, Total	0.07157		mg/l	0.01000	0.00341	1	03/17/22 15:18	03/23/22 17:46	EPA 3005A	1,6020B	SV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00636	J	mg/l	0.0100	0.00327	1	03/25/22 12:11	03/28/22 11:22	EPA 3005A	1,6020B	SV
Antimony, Dissolved	0.00494		mg/l	0.00400	0.00042	1	03/25/22 12:11	03/28/22 11:22	EPA 3005A	1,6020B	SV
Arsenic, Dissolved	0.00630		mg/l	0.00050	0.00016	1	03/25/22 12:11	03/28/22 11:22	EPA 3005A	1,6020B	SV
Barium, Dissolved	0.02032		mg/l	0.00050	0.00017	1	03/25/22 12:11	03/28/22 11:22	EPA 3005A	1,6020B	SV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	03/25/22 12:11	03/28/22 11:22	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-03 Date Collected: 03/10/22 13:00

Client ID: MW-84 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	03/25/22 12:11	03/28/22 11:22	EPA 3005A	1,6020B	SV
Calcium, Dissolved	15.0		mg/l	0.100	0.0394	1	03/25/22 12:11	03/28/22 11:22	EPA 3005A	1,6020B	SV
Chromium, Dissolved	0.00019	J	mg/l	0.00100	0.00017	1	03/25/22 12:11	03/28/22 11:22	EPA 3005A	1,6020B	SV
Cobalt, Dissolved	0.00266		mg/l	0.00050	0.00016	1	03/25/22 12:11	03/28/22 11:22	EPA 3005A	1,6020B	SV
Copper, Dissolved	0.00147		mg/l	0.00100	0.00038	1	03/25/22 12:11	03/28/22 11:22	EPA 3005A	1,6020B	SV
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	03/25/22 12:11	03/28/22 12:16	EPA 3005A	1,6020B	SV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	03/25/22 12:11	03/28/22 11:22	EPA 3005A	1,6020B	SV
Magnesium, Dissolved	2.71		mg/l	0.0700	0.0242	1	03/25/22 12:11	03/28/22 11:22	EPA 3005A	1,6020B	SV
Manganese, Dissolved	0.2202		mg/l	0.00100	0.00044	1	03/25/22 12:11	03/28/22 11:22	EPA 3005A	1,6020B	SV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	03/25/22 12:57	03/30/22 22:27	EPA 7470A	1,7470A	ZK
Nickel, Dissolved	0.00931		mg/l	0.00200	0.00055	1	03/25/22 12:11	03/28/22 11:22	EPA 3005A	1,6020B	SV
Potassium, Dissolved	1.59		mg/l	0.100	0.0309	1	03/25/22 12:11	03/28/22 11:22	EPA 3005A	1,6020B	SV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	03/25/22 12:11	03/28/22 11:22	EPA 3005A	1,6020B	SV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	03/25/22 12:11	03/28/22 11:22	EPA 3005A	1,6020B	SV
Sodium, Dissolved	30.1		mg/l	0.100	0.0293	1	03/25/22 12:11	03/28/22 11:22	EPA 3005A	1,6020B	SV
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	03/25/22 12:11	03/28/22 11:22	EPA 3005A	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	03/25/22 12:11	03/28/22 11:22	EPA 3005A	1,6020B	SV
Zinc, Dissolved	0.01002		mg/l	0.01000	0.00341	1	03/25/22 12:11	03/28/22 11:22	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-04 Date Collected: 03/10/22 14:05

Client ID: MW-81 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.371		mg/l	0.0100	0.00327	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Arsenic, Total	0.00107		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Barium, Total	0.1502		mg/l	0.00050	0.00017	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Cadmium, Total	0.00097		mg/l	0.00020	0.00005	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Calcium, Total	146.		mg/l	0.100	0.0394	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Chromium, Total	0.00220		mg/l	0.00100	0.00017	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Cobalt, Total	0.00090		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Copper, Total	0.00603		mg/l	0.00100	0.00038	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Iron, Total	1.06		mg/l	0.0500	0.0191	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Lead, Total	0.00503		mg/l	0.00100	0.00034	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Magnesium, Total	23.1		mg/l	0.0700	0.0242	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Manganese, Total	0.06000		mg/l	0.00100	0.00044	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/17/22 16:26	03/30/22 20:15	EPA 7470A	1,7470A	ZK
Nickel, Total	0.00573		mg/l	0.00200	0.00055	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Potassium, Total	7.03		mg/l	0.100	0.0309	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Selenium, Total	0.00752		mg/l	0.00500	0.00173	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Sodium, Total	71.3		mg/l	0.100	0.0293	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Thallium, Total	ND		mg/l	0.00200	0.00014	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Vanadium, Total	0.00283	J	mg/l	0.00500	0.00157	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Zinc, Total	0.03389		mg/l	0.01000	0.00341	1	03/17/22 15:18	03/23/22 17:51	EPA 3005A	1,6020B	SV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV
Antimony, Dissolved	0.00126	J	mg/l	0.00400	0.00042	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV
Arsenic, Dissolved	0.00044	J	mg/l	0.00050	0.00016	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV
Barium, Dissolved	0.1481		mg/l	0.00050	0.00017	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-04 Date Collected: 03/10/22 14:05

Client ID: MW-81 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	0.00067		mg/l	0.00020	0.00005	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV
Calcium, Dissolved	130.		mg/l	0.100	0.0394	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV
Chromium, Dissolved	0.00078	J	mg/l	0.00100	0.00017	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV
Copper, Dissolved	0.00075	J	mg/l	0.00100	0.00038	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV
Magnesium, Dissolved	20.3		mg/l	0.0700	0.0242	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV
Manganese, Dissolved	0.00300		mg/l	0.00100	0.00044	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	03/25/22 12:57	03/30/22 22:31	EPA 7470A	1,7470A	ZK
Nickel, Dissolved	0.00310		mg/l	0.00200	0.00055	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV
Potassium, Dissolved	6.40		mg/l	0.100	0.0309	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV
Selenium, Dissolved	0.00683		mg/l	0.00500	0.00173	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV
Sodium, Dissolved	77.5		mg/l	0.100	0.0293	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV
Zinc, Dissolved	0.01402		mg/l	0.01000	0.00341	1	03/25/22 12:11	03/28/22 11:27	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-05 Date Collected: 03/10/22 15:20

Client ID: MW-82 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.823		mg/l	0.0100	0.00327	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Antimony, Total	0.00108	J	mg/l	0.00400	0.00042	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Arsenic, Total	0.00719		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Barium, Total	0.04072		mg/l	0.00050	0.00017	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Calcium, Total	22.5		mg/l	0.100	0.0394	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Chromium, Total	0.00330		mg/l	0.00100	0.00017	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Cobalt, Total	0.00121		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Copper, Total	0.01852		mg/l	0.00100	0.00038	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Iron, Total	6.68		mg/l	0.0500	0.0191	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Lead, Total	0.01005		mg/l	0.00100	0.00034	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Magnesium, Total	3.29		mg/l	0.0700	0.0242	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Manganese, Total	0.9620		mg/l	0.00100	0.00044	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/17/22 16:26	03/30/22 20:32	EPA 7470A	1,7470A	ZK
Nickel, Total	0.00354		mg/l	0.00200	0.00055	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Potassium, Total	3.59		mg/l	0.100	0.0309	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Sodium, Total	30.7		mg/l	0.100	0.0293	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Thallium, Total	ND		mg/l	0.00200	0.00014	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Vanadium, Total	0.00347	J	mg/l	0.00500	0.00157	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Zinc, Total	0.05684		mg/l	0.01000	0.00341	1	03/17/22 15:18	03/23/22 17:56	EPA 3005A	1,6020B	SV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00842	J	mg/l	0.0100	0.00327	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV
Antimony, Dissolved	0.00141	J	mg/l	0.00400	0.00042	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV
Arsenic, Dissolved	0.00106		mg/l	0.00050	0.00016	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV
Barium, Dissolved	0.02700		mg/l	0.00050	0.00017	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-05 Date Collected: 03/10/22 15:20

Client ID: MW-82 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV
Calcium, Dissolved	20.2		mg/l	0.100	0.0394	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV
Chromium, Dissolved	0.00027	J	mg/l	0.00100	0.00017	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV
Cobalt, Dissolved	0.00056		mg/l	0.00050	0.00016	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV
Copper, Dissolved	0.00136		mg/l	0.00100	0.00038	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV
Iron, Dissolved	0.272		mg/l	0.0500	0.0191	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV
Magnesium, Dissolved	2.37		mg/l	0.0700	0.0242	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV
Manganese, Dissolved	0.9093		mg/l	0.00100	0.00044	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	03/25/22 12:57	03/30/22 22:34	EPA 7470A	1,7470A	ZK
Nickel, Dissolved	0.00114	J	mg/l	0.00200	0.00055	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV
Potassium, Dissolved	3.34		mg/l	0.100	0.0309	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV
Sodium, Dissolved	35.4		mg/l	0.100	0.0293	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV
Zinc, Dissolved	0.00949	J	mg/l	0.01000	0.00341	1	03/25/22 12:11	03/28/22 11:32	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-06 Date Collected: 03/10/22 16:40

Client ID: MW-3 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.239		mg/l	0.0100	0.00327	1	03/17/22 15:18	03/23/22 18:01	EPA 3005A	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	03/17/22 15:18	03/23/22 18:01	EPA 3005A	1,6020B	SV
Arsenic, Total	0.03757		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 18:01	EPA 3005A	1,6020B	SV
Barium, Total	0.2945		mg/l	0.00050	0.00017	1	03/17/22 15:18	03/23/22 18:01	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/17/22 15:18	03/23/22 18:01	EPA 3005A	1,6020B	SV
Cadmium, Total	0.00089		mg/l	0.00020	0.00005	1	03/17/22 15:18	03/23/22 18:01	EPA 3005A	1,6020B	SV
Calcium, Total	131.		mg/l	0.100	0.0394	1	03/17/22 15:18	03/23/22 18:01	EPA 3005A	1,6020B	SV
Chromium, Total	0.00109		mg/l	0.00100	0.00017	1	03/17/22 15:18	03/23/22 18:01	EPA 3005A	1,6020B	SV
Cobalt, Total	0.00364		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 18:01	EPA 3005A	1,6020B	SV
Copper, Total	0.00446		mg/l	0.00100	0.00038	1	03/17/22 15:18	03/23/22 18:01	EPA 3005A	1,6020B	SV
Iron, Total	20.3		mg/l	0.0500	0.0191	1	03/17/22 15:18	03/23/22 18:01	EPA 3005A	1,6020B	SV
Lead, Total	0.00402		mg/l	0.00100	0.00034	1	03/17/22 15:18	03/23/22 18:01	EPA 3005A	1,6020B	SV
Magnesium, Total	50.6		mg/l	0.0700	0.0242	1	03/17/22 15:18	03/23/22 18:01	EPA 3005A	1,6020B	SV
Manganese, Total	16.61		mg/l	0.00500	0.00220	5	03/17/22 15:18	03/23/22 18:36	EPA 3005A	1,6020B	SV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/17/22 16:26	03/30/22 20:35	EPA 7470A	1,7470A	ZK
Nickel, Total	0.00980		mg/l	0.00200	0.00055	1	03/17/22 15:18	03/23/22 18:01	EPA 3005A	1,6020B	SV
Potassium, Total	6.50		mg/l	0.100	0.0309	1	03/17/22 15:18	03/23/22 18:01	EPA 3005A	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/17/22 15:18	03/23/22 18:01	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/17/22 15:18	03/23/22 18:01	EPA 3005A	1,6020B	SV
Sodium, Total	341.		mg/l	0.100	0.0293	1	03/17/22 15:18	03/23/22 18:01	EPA 3005A	1,6020B	SV
Thallium, Total	ND		mg/l	0.00200	0.00014	1	03/17/22 15:18	03/23/22 18:01	EPA 3005A	1,6020B	SV
Vanadium, Total	0.00216	J	mg/l	0.00500	0.00157	1	03/17/22 15:18	03/23/22 18:01	EPA 3005A	1,6020B	SV
Zinc, Total	0.02026		mg/l	0.01000	0.00341	1	03/17/22 15:18	03/23/22 18:01	EPA 3005A	1,6020B	SV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	03/25/22 12:11	03/28/22 11:38	EPA 3005A	1,6020B	SV
Antimony, Dissolved	0.00062	J	mg/l	0.00400	0.00042	1	03/25/22 12:11	03/28/22 11:38	EPA 3005A	1,6020B	SV
Arsenic, Dissolved	0.00092		mg/l	0.00050	0.00016	1	03/25/22 12:11	03/28/22 11:38	EPA 3005A	1,6020B	SV
Barium, Dissolved	0.1529		mg/l	0.00050	0.00017	1	03/25/22 12:11	03/28/22 11:38	EPA 3005A	1,6020B	SV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	03/25/22 12:11	03/28/22 11:38	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-06 Date Collected: 03/10/22 16:40

Client ID: MW-3 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	0.00032		mg/l	0.00020	0.00005	1	03/25/22 12:11	03/28/22 11:38	EPA 3005A	1,6020B	SV
Calcium, Dissolved	137.		mg/l	0.100	0.0394	1	03/25/22 12:11	03/28/22 11:38	EPA 3005A	1,6020B	SV
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	03/25/22 12:11	03/28/22 11:38	EPA 3005A	1,6020B	SV
Cobalt, Dissolved	0.00165		mg/l	0.00050	0.00016	1	03/25/22 12:11	03/28/22 11:38	EPA 3005A	1,6020B	SV
Copper, Dissolved	0.00085	J	mg/l	0.00100	0.00038	1	03/25/22 12:11	03/28/22 11:38	EPA 3005A	1,6020B	SV
Iron, Dissolved	0.0236	J	mg/l	0.0500	0.0191	1	03/25/22 12:11	03/28/22 11:38	EPA 3005A	1,6020B	SV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	03/25/22 12:11	03/28/22 11:38	EPA 3005A	1,6020B	SV
Magnesium, Dissolved	48.2		mg/l	0.0700	0.0242	1	03/25/22 12:11	03/28/22 11:38	EPA 3005A	1,6020B	SV
Manganese, Dissolved	13.57		mg/l	0.00200	0.00088	2	03/25/22 12:11	03/28/22 12:11	EPA 3005A	1,6020B	SV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	03/25/22 12:57	03/30/22 22:37	EPA 7470A	1,7470A	ZK
Nickel, Dissolved	0.00702		mg/l	0.00200	0.00055	1	03/25/22 12:11	03/28/22 11:38	EPA 3005A	1,6020B	SV
Potassium, Dissolved	6.40		mg/l	0.100	0.0309	1	03/25/22 12:11	03/28/22 11:38	EPA 3005A	1,6020B	SV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	03/25/22 12:11	03/28/22 11:38	EPA 3005A	1,6020B	SV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	03/25/22 12:11	03/28/22 11:38	EPA 3005A	1,6020B	SV
Sodium, Dissolved	406.		mg/l	0.100	0.0293	1	03/25/22 12:11	03/28/22 11:38	EPA 3005A	1,6020B	SV
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	03/25/22 12:11	03/28/22 11:38	EPA 3005A	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	03/25/22 12:11	03/28/22 11:38	EPA 3005A	1,6020B	SV
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	03/25/22 12:11	03/28/22 11:38	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-07 Date Collected: 03/10/22 17:30

Client ID: MW-8 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.237		mg/l	0.0100	0.00327	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Antimony, Total	0.00052	J	mg/l	0.00400	0.00042	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Arsenic, Total	0.1149		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Barium, Total	0.2621		mg/l	0.00050	0.00017	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Cadmium, Total	0.00023		mg/l	0.00020	0.00005	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Calcium, Total	67.8		mg/l	0.100	0.0394	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Chromium, Total	0.00134		mg/l	0.00100	0.00017	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Cobalt, Total	0.00309		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Copper, Total	0.00986		mg/l	0.00100	0.00038	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Iron, Total	43.0		mg/l	0.0500	0.0191	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Lead, Total	0.00523		mg/l	0.00100	0.00034	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Magnesium, Total	8.27		mg/l	0.0700	0.0242	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Manganese, Total	0.8024		mg/l	0.00100	0.00044	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/17/22 16:26	03/30/22 20:38	EPA 7470A	1,7470A	ZK
Nickel, Total	0.00396		mg/l	0.00200	0.00055	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Potassium, Total	5.22		mg/l	0.100	0.0309	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Sodium, Total	327.		mg/l	0.100	0.0293	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Thallium, Total	0.00043	J	mg/l	0.00200	0.00014	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Vanadium, Total	0.00325	J	mg/l	0.00500	0.00157	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Zinc, Total	0.2577		mg/l	0.01000	0.00341	1	03/17/22 15:18	03/23/22 18:16	EPA 3005A	1,6020B	SV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV
Antimony, Dissolved	0.00070	J	mg/l	0.00400	0.00042	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV
Arsenic, Dissolved	0.00557		mg/l	0.00050	0.00016	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV
Barium, Dissolved	0.1215		mg/l	0.00050	0.00017	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-07 Date Collected: 03/10/22 17:30

Client ID: MW-8 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV
Calcium, Dissolved	76.7		mg/l	0.100	0.0394	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV
Chromium, Dissolved	0.00025	J	mg/l	0.00100	0.00017	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV
Cobalt, Dissolved	0.00181		mg/l	0.00050	0.00016	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV
Iron, Dissolved	2.46		mg/l	0.0500	0.0191	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV
Magnesium, Dissolved	8.48		mg/l	0.0700	0.0242	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV
Manganese, Dissolved	0.8616		mg/l	0.00100	0.00044	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	03/25/22 12:57	03/30/22 22:40	EPA 7470A	1,7470A	ZK
Nickel, Dissolved	0.00168	J	mg/l	0.00200	0.00055	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV
Potassium, Dissolved	5.58		mg/l	0.100	0.0309	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV
Sodium, Dissolved	416.		mg/l	0.100	0.0293	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	03/25/22 12:11	03/28/22 11:43	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-08 Date Collected: 03/10/22 00:00

Client ID: DUP003 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.333		mg/l	0.0100	0.00327	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Arsenic, Total	0.00106		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Barium, Total	0.1468		mg/l	0.00050	0.00017	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Cadmium, Total	0.00086		mg/l	0.00020	0.00005	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Calcium, Total	145.		mg/l	0.100	0.0394	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Chromium, Total	0.00218		mg/l	0.00100	0.00017	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Cobalt, Total	0.00086		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Copper, Total	0.00471		mg/l	0.00100	0.00038	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Iron, Total	0.984		mg/l	0.0500	0.0191	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Lead, Total	0.00338		mg/l	0.00100	0.00034	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Magnesium, Total	23.0		mg/l	0.0700	0.0242	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Manganese, Total	0.06203		mg/l	0.00100	0.00044	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/17/22 16:26	03/30/22 20:42	EPA 7470A	1,7470A	ZK
Nickel, Total	0.00607		mg/l	0.00200	0.00055	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Potassium, Total	6.98		mg/l	0.100	0.0309	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Selenium, Total	0.00728		mg/l	0.00500	0.00173	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Sodium, Total	71.4		mg/l	0.100	0.0293	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Thallium, Total	0.00026	J	mg/l	0.00200	0.00014	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Vanadium, Total	0.00269	J	mg/l	0.00500	0.00157	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Zinc, Total	0.02865		mg/l	0.01000	0.00341	1	03/17/22 15:18	03/23/22 18:21	EPA 3005A	1,6020B	SV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV
Antimony, Dissolved	0.00056	J	mg/l	0.00400	0.00042	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV
Arsenic, Dissolved	0.00034	J	mg/l	0.00050	0.00016	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV
Barium, Dissolved	0.1448		mg/l	0.00050	0.00017	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-08 Date Collected: 03/10/22 00:00

Client ID: DUP003 Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	0.00057		mg/l	0.00020	0.00005	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV
Calcium, Dissolved	129.		mg/l	0.100	0.0394	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV
Chromium, Dissolved	0.00071	J	mg/l	0.00100	0.00017	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV
Copper, Dissolved	0.00075	J	mg/l	0.00100	0.00038	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV
Magnesium, Dissolved	20.9		mg/l	0.0700	0.0242	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV
Manganese, Dissolved	0.00214		mg/l	0.00100	0.00044	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	03/25/22 12:57	03/30/22 23:01	EPA 7470A	1,7470A	ZK
Nickel, Dissolved	0.00311		mg/l	0.00200	0.00055	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV
Potassium, Dissolved	6.39		mg/l	0.100	0.0309	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV
Selenium, Dissolved	0.00694		mg/l	0.00500	0.00173	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV
Sodium, Dissolved	77.5		mg/l	0.100	0.0293	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV
Zinc, Dissolved	0.01133		mg/l	0.01000	0.00341	1	03/25/22 12:11	03/28/22 11:48	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-09 Date Collected: 03/10/22 17:50

Client ID: EQUIPMENT BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0100		mg/l	0.0100	0.00327	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Barium, Total	0.00222		mg/l	0.00050	0.00017	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Calcium, Total	ND		mg/l	0.100	0.0394	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Chromium, Total	0.00020	J	mg/l	0.00100	0.00017	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Copper, Total	ND		mg/l	0.00100	0.00038	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Iron, Total	ND		mg/l	0.0500	0.0191	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Manganese, Total	ND		mg/l	0.00100	0.00044	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/17/22 16:26	03/30/22 20:45	EPA 7470A	1,7470A	ZK
Nickel, Total	ND		mg/l	0.00200	0.00055	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Potassium, Total	ND		mg/l	0.100	0.0309	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Sodium, Total	0.267		mg/l	0.100	0.0293	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Thallium, Total	0.00031	J	mg/l	0.00200	0.00014	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	03/17/22 15:18	03/23/22 17:27	EPA 3005A	1,6020B	SV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV
Antimony, Dissolved	0.00076	J	mg/l	0.00400	0.00042	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212899-09 Date Collected: 03/10/22 17:50

Client ID: EQUIPMENT BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE., BROOKLYN Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV
Calcium, Dissolved	0.0481	J	mg/l	0.100	0.0394	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV
Manganese, Dissolved	0.00058	J	mg/l	0.00100	0.00044	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	03/25/22 12:57	03/30/22 23:04	EPA 7470A	1,7470A	ZK
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV
Sodium, Dissolved	0.0840	JB	mg/l	0.100	0.0293	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	03/25/22 12:11	03/28/22 11:54	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

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): 01-09 Batch: WG1616401-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Barium, Total	ND		mg/l	0.00050	0.00017	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Calcium, Total	ND		mg/l	0.100	0.0394	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Chromium, Total	ND		mg/l	0.00100	0.00017	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Copper, Total	ND		mg/l	0.00100	0.00038	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Iron, Total	ND		mg/l	0.0500	0.0191	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Manganese, Total	ND		mg/l	0.00100	0.00044	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Nickel, Total	ND		mg/l	0.00200	0.00055	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Potassium, Total	ND		mg/l	0.100	0.0309	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Sodium, Total	ND		mg/l	0.100	0.0293	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Thallium, Total	0.00026	J	mg/l	0.00200	0.00014	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV

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): 01-09 Batch: WG1616403-1										
Mercury, Total	0.00016	J	mg/l	0.00020	0.00009	1	03/17/22 16:26	03/30/22 19:35	1,7470A	ZK

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-09 Batch: WG1616879-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV
Antimony, Dissolved	0.00048	J	mg/l	0.00400	0.00042	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV
Iron, Dissolved	0.0420	J	mg/l	0.0500	0.0191	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV
Sodium, Dissolved	0.134		mg/l	0.100	0.0293	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV
Thallium, Dissolved	0.00018	J	mg/l	0.00100	0.00014	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	03/25/22 12:11	03/28/22 09:30	1,6020B	SV

Prep Information

Digestion Method: EPA 3005A

Project Name: TOT2101 **Lab Number:** L2212899

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-09 Batch: WG1616880-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	03/25/22 12:57	03/30/22 22:00	1,7470A	ZK

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212899

Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-09 Batch: WG1616401-2								
Aluminum, Total	105		-		80-120	-		
Antimony, Total	81		-		80-120	-		
Arsenic, Total	93		-		80-120	-		
Barium, Total	93		-		80-120	-		
Beryllium, Total	101		-		80-120	-		
Cadmium, Total	97		-		80-120	-		
Calcium, Total	89		-		80-120	-		
Chromium, Total	106		-		80-120	-		
Cobalt, Total	98		-		80-120	-		
Copper, Total	96		-		80-120	-		
Iron, Total	113		-		80-120	-		
Lead, Total	97		-		80-120	-		
Magnesium, Total	110		-		80-120	-		
Manganese, Total	103		-		80-120	-		
Nickel, Total	98		-		80-120	-		
Potassium, Total	110		-		80-120	-		
Selenium, Total	99		-		80-120	-		
Silver, Total	95		-		80-120	-		
Sodium, Total	108		-		80-120	-		
Thallium, Total	102		-		80-120	-		
Vanadium, Total	106		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212899

Report Date: 04/01/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-09 Batch: WG1616401-2					
Zinc, Total	97	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-09 Batch: WG1616403-2					
Mercury, Total	116	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212899

Report Date: 04/01/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-09 Batch: WG1616879-2					
Aluminum, Dissolved	105	-	80-120	-	
Antimony, Dissolved	92	-	80-120	-	
Arsenic, Dissolved	104	-	80-120	-	
Barium, Dissolved	100	-	80-120	-	
Beryllium, Dissolved	100	-	80-120	-	
Cadmium, Dissolved	101	-	80-120	-	
Calcium, Dissolved	95	-	80-120	-	
Chromium, Dissolved	101	-	80-120	-	
Cobalt, Dissolved	96	-	80-120	-	
Copper, Dissolved	97	-	80-120	-	
Iron, Dissolved	106	-	80-120	-	
Lead, Dissolved	100	-	80-120	-	
Magnesium, Dissolved	106	-	80-120	-	
Manganese, Dissolved	102	-	80-120	-	
Nickel, Dissolved	98	-	80-120	-	
Potassium, Dissolved	108	-	80-120	-	
Selenium, Dissolved	107	-	80-120	-	
Silver, Dissolved	99	-	80-120	-	
Sodium, Dissolved	100	-	80-120	-	
Thallium, Dissolved	108	-	80-120	-	
Vanadium, Dissolved	100	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212899

Report Date: 04/01/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-09 Batch: WG1616879-2					
Zinc, Dissolved	98	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01-09 Batch: WG1616880-2					
Mercury, Dissolved	97	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212899
Report Date: 04/01/22

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): 01-09 QC Batch ID: WG1616401-3 WG1616401-4 QC Sample: L2212899-02 Client ID: MW-6												
Aluminum, Total	0.177	2	2.28	105		2.18	100		75-125	4		20
Antimony, Total	0.00069J	0.5	0.5274	105		0.5178	104		75-125	2		20
Arsenic, Total	0.06514	0.12	0.1930	106		0.1869	101		75-125	3		20
Barium, Total	0.2761	2	2.271	100		2.166	94		75-125	5		20
Beryllium, Total	ND	0.05	0.05065	101		0.04864	97		75-125	4		20
Cadmium, Total	0.00451	0.053	0.06026	105		0.05861	102		75-125	3		20
Calcium, Total	107.	10	149	**420**	Q	147	**400**	Q	75-125	1		20
Chromium, Total	0.00111	0.2	0.2076	103		0.2028	101		75-125	2		20
Cobalt, Total	0.00338	0.5	0.4918	98		0.4871	97		75-125	1		20
Copper, Total	0.01450	0.25	0.2588	98		0.2571	97		75-125	1		20
Iron, Total	71.1	1	91.7	**2060**	Q	90.4	**1930**	Q	75-125	1		20
Lead, Total	0.00737	0.53	0.5366	100		0.5202	97		75-125	3		20
Magnesium, Total	53.1	10	77.6	**245**	Q	76.4	**233**	Q	75-125	2		20
Manganese, Total	2.828	0.5	4.184	**271**	Q	4.012	**237**	Q	75-125	4		20
Nickel, Total	0.00663	0.5	0.5002	99		0.4995	98		75-125	0		20
Potassium, Total	2.99	10	14.3	113		14.3	113		75-125	0		20
Selenium, Total	ND	0.12	0.113	94		0.114	95		75-125	1		20
Silver, Total	ND	0.05	0.05020	100		0.04877	98		75-125	3		20
Sodium, Total	257.	10	297	**400**	Q	293	**360**	Q	75-125	1		20
Thallium, Total	0.00032J	0.12	0.1220	102		0.1172	98		75-125	4		20
Vanadium, Total	0.00314J	0.5	0.5248	105		0.5164	103		75-125	2		20

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212899
Report Date: 04/01/22

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): 01-09 QC Batch ID: WG1616401-3 WG1616401-4 QC Sample: L2212899-02 Client ID: MW-6									
Zinc, Total	0.08963	0.5	0.5989	102	0.5790	98	75-125	3	20
Total Metals - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1616403-3 WG1616403-4 QC Sample: L2212899-02 Client ID: MW-6									
Mercury, Total	0.00009J	0.005	0.00445	89	0.00457	92	75-125	3	20

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212899
Report Date: 04/01/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1616879-3 WG1616879-4 QC Sample: L2212899-02 Client ID: MW-6											
Aluminum, Dissolved	ND	2	2.12	106		1.98	99		75-125	7	20
Antimony, Dissolved	0.00050J	0.5	0.5348	107		0.4932	99		75-125	8	20
Arsenic, Dissolved	0.00262	0.12	0.1249	102		0.1221	100		75-125	2	20
Barium, Dissolved	0.1772	2	2.153	99		2.069	94		75-125	4	20
Beryllium, Dissolved	ND	0.05	0.04505	90		0.04730	95		75-125	5	20
Cadmium, Dissolved	ND	0.053	0.05366	101		0.05018	95		75-125	7	20
Calcium, Dissolved	126.	10	144	**180**	Q	139	**130**	Q	75-125	4	20
Chromium, Dissolved	ND	0.2	0.2007	100		0.1896	95		75-125	6	20
Cobalt, Dissolved	0.00371	0.5	0.4827	96		0.4636	92		75-125	4	20
Copper, Dissolved	ND	0.25	0.2406	96		0.2331	93		75-125	3	20
Iron, Dissolved	42.8	1	45.7	**290**	Q	51.4	**860**	Q	75-125	12	20
Lead, Dissolved	ND	0.53	0.5311	100		0.5055	95		75-125	5	20
Magnesium, Dissolved	61.1	10	73.3	122		70.2	91		75-125	4	20
Manganese, Dissolved	3.356	0.5	4.051	**139**	Q	3.891	107		75-125	4	20
Nickel, Dissolved	0.00533	0.5	0.4956	98		0.4752	94		75-125	4	20
Potassium, Dissolved	3.35	10	14.1	108		13.7	104		75-125	3	20
Selenium, Dissolved	ND	0.12	0.123	102		0.119	99		75-125	3	20
Silver, Dissolved	ND	0.05	0.04942	99		0.04672	93		75-125	6	20
Sodium, Dissolved	326.	10	340	**140**	Q	327	**10**	Q	75-125	4	20
Thallium, Dissolved	0.00027J	0.12	0.1205	100		0.1166	97		75-125	3	20
Vanadium, Dissolved	ND	0.5	0.5051	101		0.4722	94		75-125	7	20

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212899
Report Date: 04/01/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1616879-3 WG1616879-4 QC Sample: L2212899-02 Client ID: MW-6									
Zinc, Dissolved	0.00623J	0.5	0.4814	96	0.4549	91	75-125	6	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1616880-3 WG1616880-4 QC Sample: L2212899-02 Client ID: MW-6									
Mercury, Dissolved	ND	0.005	0.00457	91	0.00467	94	75-125	2	20

Project Name: TOT2101
Project Number: TOT2101

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2212899
Report Date: 04/01/22

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1616401-6 QC Sample: L2212899-02 Client ID: MW-6						
Arsenic, Total	0.06514	0.06762	mg/l	4		20
Barium, Total	0.2761	0.2767	mg/l	0		20
Calcium, Total	107.	136.	mg/l	**27**	Q	20
Iron, Total	71.1	88.5	mg/l	**24**	Q	20
Magnesium, Total	53.1	64.1	mg/l	**21**	Q	20
Manganese, Total	2.828	3.555	mg/l	**26**	Q	20
Potassium, Total	2.99	3.47	mg/l	16		20
Sodium, Total	257.	279.	mg/l	9		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1616879-6 QC Sample: L2212899-02 Client ID: MW-6						
Barium, Dissolved	0.1772	0.1738	mg/l	2		20
Calcium, Dissolved	126.	127.	mg/l	1		20
Iron, Dissolved	42.8	43.2	mg/l	1		20
Magnesium, Dissolved	61.1	59.0	mg/l	3		20
Manganese, Dissolved	3.356	3.350	mg/l	0		20
Potassium, Dissolved	3.35	3.28	mg/l	2		20
Sodium, Dissolved	326.	313.	mg/l	4		20

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212899
Report Date: 04/01/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent
E	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2212899-01A	Vial HCl preserved	B	NA		4.2	Y	Absent		NYTCL-8260(14)
L2212899-01B	Vial HCl preserved	B	NA		4.2	Y	Absent		NYTCL-8260(14)
L2212899-01C	Vial HCl preserved	B	NA		4.2	Y	Absent		NYTCL-8260(14)
L2212899-01D	Amber 120ml unpreserved	B	7	7	4.2	Y	Absent		NYTCL-8082-LVI(365)
L2212899-01E	Amber 120ml unpreserved	B	7	7	4.2	Y	Absent		NYTCL-8082-LVI(365)
L2212899-01F	Amber 120ml unpreserved	B	7	7	4.2	Y	Absent		NYTCL-8081(7)
L2212899-01G	Amber 120ml unpreserved	B	7	7	4.2	Y	Absent		NYTCL-8081(7)
L2212899-01H	Plastic 250ml unpreserved	B	7	7	4.2	Y	Absent		-
L2212899-01I	Plastic 250ml HNO3 preserved	B	<2	<2	4.2	Y	Absent		BA-6020T(180),TL-6020T(180),SE-6020T(180),FE-6020T(180),CR-6020T(180),CA-6020T(180),NI-6020T(180),K-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),AS-6020T(180),AL-6020T(180),CD-6020T(180),AG-6020T(180),MG-6020T(180),HG-T(28),CO-6020T(180)
L2212899-01J	Amber 250ml unpreserved	B	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-01K	Amber 250ml unpreserved	B	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-01L	Amber 250ml unpreserved	B	7	7	4.2	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212899-01M	Amber 250ml unpreserved	B	7	7	4.2	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212899-01N	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212899-01O	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212899
Report Date: 04/01/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2212899-01X	Plastic 120ml HNO3 preserved Filtrates	B	NA		4.2	Y	Absent		SE-6020S(180),V-6020S(180),CU-6020S(180),K-6020S(180),MN-6020S(180),CO-6020S(180),ZN-6020S(180),BE-6020S(180),MG-6020S(180),CR-6020S(180),CA-6020S(180),FE-6020S(180),NI-6020S(180),PB-6020S(180),BA-6020S(180),NA-6020S(180),TL-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),HG-S(28),CD-6020S(180),AL-6020S(180)
L2212899-02A	Vial HCl preserved	C	NA		4.5	Y	Absent		NYTCL-8260(14)
L2212899-02A1	Vial HCl preserved	C	NA		4.5	Y	Absent		NYTCL-8260(14)
L2212899-02A2	Vial HCl preserved	C	NA		4.5	Y	Absent		NYTCL-8260(14)
L2212899-02B	Vial HCl preserved	C	NA		4.5	Y	Absent		NYTCL-8260(14)
L2212899-02B1	Vial HCl preserved	C	NA		4.5	Y	Absent		NYTCL-8260(14)
L2212899-02B2	Vial HCl preserved	C	NA		4.5	Y	Absent		NYTCL-8260(14)
L2212899-02C	Vial HCl preserved	C	NA		4.5	Y	Absent		NYTCL-8260(14)
L2212899-02C1	Vial HCl preserved	C	NA		4.5	Y	Absent		NYTCL-8260(14)
L2212899-02C2	Vial HCl preserved	C	NA		4.5	Y	Absent		NYTCL-8260(14)
L2212899-02D	Amber 120ml unpreserved	C	7	7	4.5	Y	Absent		NYTCL-8082-LVI(365)
L2212899-02D1	Amber 120ml unpreserved	C	7	7	4.5	Y	Absent		NYTCL-8082-LVI(365)
L2212899-02D2	Amber 120ml unpreserved	C	7	7	4.5	Y	Absent		NYTCL-8082-LVI(365)
L2212899-02E	Amber 120ml unpreserved	C	7	7	4.5	Y	Absent		NYTCL-8082-LVI(365)
L2212899-02E1	Amber 120ml unpreserved	C	7	7	4.5	Y	Absent		NYTCL-8082-LVI(365)
L2212899-02E2	Amber 120ml unpreserved	C	7	7	4.5	Y	Absent		NYTCL-8082-LVI(365)
L2212899-02F	Amber 120ml unpreserved	C	7	7	4.5	Y	Absent		NYTCL-8081(7)
L2212899-02F1	Amber 120ml unpreserved	C	7	7	4.5	Y	Absent		NYTCL-8081(7)
L2212899-02F2	Amber 120ml unpreserved	C	7	7	4.5	Y	Absent		NYTCL-8081(7)
L2212899-02G	Amber 120ml unpreserved	C	7	7	4.5	Y	Absent		NYTCL-8081(7)
L2212899-02G1	Amber 120ml unpreserved	C	7	7	4.5	Y	Absent		NYTCL-8081(7)
L2212899-02G2	Amber 120ml unpreserved	C	7	7	4.5	Y	Absent		NYTCL-8081(7)
L2212899-02H	Plastic 250ml unpreserved	C	7	7	4.5	Y	Absent		-
L2212899-02H1	Plastic 250ml unpreserved	C	7	7	4.5	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212899
Report Date: 04/01/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2212899-02H2	Plastic 250ml unpreserved	C	7	7	4.5	Y	Absent		-
L2212899-02I	Plastic 250ml HNO3 preserved	C	<2	<2	4.5	Y	Absent		TL-6020T(180),BA-6020T(180),FE-6020T(180),SE-6020T(180),K-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28),AL-6020T(180),MG-6020T(180),CO-6020T(180)
L2212899-02I1	Plastic 250ml HNO3 preserved	C	<2	<2	4.5	Y	Absent		TL-6020T(180),BA-6020T(180),FE-6020T(180),SE-6020T(180),K-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28),AL-6020T(180),MG-6020T(180),CO-6020T(180)
L2212899-02I2	Plastic 250ml HNO3 preserved	C	<2	<2	4.5	Y	Absent		TL-6020T(180),BA-6020T(180),FE-6020T(180),SE-6020T(180),K-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28),AL-6020T(180),MG-6020T(180),CO-6020T(180)
L2212899-02J	Amber 250ml unpreserved	C	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-02J1	Amber 250ml unpreserved	C	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-02J2	Amber 250ml unpreserved	C	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-02K	Amber 250ml unpreserved	C	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-02K1	Amber 250ml unpreserved	C	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-02K2	Amber 250ml unpreserved	C	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-02L	Amber 250ml unpreserved	C	7	7	4.5	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212899-02L1	Amber 250ml unpreserved	C	7	7	4.5	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212899-02L2	Amber 250ml unpreserved	C	7	7	4.5	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212899-02M	Amber 250ml unpreserved	C	7	7	4.5	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212899-02M1	Amber 250ml unpreserved	C	7	7	4.5	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212899-02M2	Amber 250ml unpreserved	C	7	7	4.5	Y	Absent		A2-1,4-DIOXANE-SIM(7)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2212899-02N	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212899-02N1	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212899-02N2	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212899-02O	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212899-02O1	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212899-02O2	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212899-02X	Plastic 120ml HNO3 preserved Filtrates	C	NA		4.5	Y	Absent		V-6020S(180),K-6020S(180),CU-6020S(180),SE-6020S(180),MN-6020S(180),MG-6020S(180),ZN-6020S(180),BE-6020S(180),CO-6020S(180),CA-6020S(180),FE-6020S(180),CR-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),BA-6020S(180),TL-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2212899-02X1	Plastic 120ml HNO3 preserved Filtrates	C	NA		4.5	Y	Absent		V-6020S(180),K-6020S(180),CU-6020S(180),SE-6020S(180),MN-6020S(180),MG-6020S(180),ZN-6020S(180),BE-6020S(180),CO-6020S(180),CA-6020S(180),FE-6020S(180),CR-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),BA-6020S(180),TL-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2212899-02X2	Plastic 120ml HNO3 preserved Filtrates	C	NA		4.5	Y	Absent		V-6020S(180),K-6020S(180),CU-6020S(180),SE-6020S(180),MN-6020S(180),MG-6020S(180),ZN-6020S(180),BE-6020S(180),CO-6020S(180),CA-6020S(180),FE-6020S(180),CR-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),BA-6020S(180),TL-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2212899-03A	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2212899-03B	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2212899-03C	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2212899-03D	Amber 120ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8082-LVI(365)
L2212899-03E	Amber 120ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8082-LVI(365)
L2212899-03F	Amber 120ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8081(7)

*Values in parentheses indicate holding time in days

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212899
Report Date: 04/01/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2212899-03G	Amber 120ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8081(7)
L2212899-03H	Plastic 250ml unpreserved	A	7	7	2.9	Y	Absent		-
L2212899-03I	Plastic 250ml HNO3 preserved	A	<2	<2	2.9	Y	Absent		BA-6020T(180),FE-6020T(180),TL-6020T(180),SE-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),CA-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28),MG-6020T(180),AL-6020T(180),CO-6020T(180)
L2212899-03J	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-03K	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-03L	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212899-03M	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212899-03N	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212899-03O	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212899-03X	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.9	Y	Absent		K-6020S(180),CU-6020S(180),V-6020S(180),SE-6020S(180),MN-6020S(180),ZN-6020S(180),CO-6020S(180),MG-6020S(180),BE-6020S(180),FE-6020S(180),CA-6020S(180),CR-6020S(180),NI-6020S(180),BA-6020S(180),TL-6020S(180),PB-6020S(180),NA-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2212899-04A	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2212899-04B	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2212899-04C	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2212899-04D	Amber 120ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8082-LVI(365)
L2212899-04E	Amber 120ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8082-LVI(365)
L2212899-04F	Amber 120ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8081(7)
L2212899-04G	Amber 120ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8081(7)
L2212899-04H	Plastic 250ml unpreserved	A	7	7	2.9	Y	Absent		-

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2212899-04I	Plastic 250ml HNO3 preserved	A	<2	<2	2.9	Y	Absent		BA-6020T(180),SE-6020T(180),TL-6020T(180),FE-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),CA-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),CD-6020T(180),AL-6020T(180),MG-6020T(180),AG-6020T(180),HG-T(28),CO-6020T(180)
L2212899-04J	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-04K	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-04L	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212899-04M	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212899-04N	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212899-04O	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212899-04X	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.9	Y	Absent		SE-6020S(180),K-6020S(180),CU-6020S(180),V-6020S(180),MN-6020S(180),CO-6020S(180),ZN-6020S(180),MG-6020S(180),BE-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),PB-6020S(180),NI-6020S(180),NA-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),CD-6020S(180),HG-S(28),AL-6020S(180)
L2212899-05A	Vial HCl preserved	D	NA		3.7	Y	Absent		NYTCL-8260(14)
L2212899-05B	Vial HCl preserved	D	NA		3.7	Y	Absent		NYTCL-8260(14)
L2212899-05C	Vial HCl preserved	D	NA		3.7	Y	Absent		NYTCL-8260(14)
L2212899-05D	Amber 120ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8082-LVI(365)
L2212899-05E	Amber 120ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8082-LVI(365)
L2212899-05F	Amber 120ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2212899-05G	Amber 120ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8081(7)
L2212899-05H	Plastic 250ml unpreserved	D	7	7	3.7	Y	Absent		-

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2212899-05I	Plastic 250ml HNO3 preserved	D	<2	<2	3.7	Y	Absent		BA-6020T(180),SE-6020T(180),TL-6020T(180),FE-6020T(180),NI-6020T(180),CR-6020T(180),CA-6020T(180),K-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),AL-6020T(180),MG-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28),CO-6020T(180)
L2212899-05J	Amber 250ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-05K	Amber 250ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-05L	Amber 250ml unpreserved	D	7	7	3.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212899-05M	Amber 250ml unpreserved	D	7	7	3.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212899-05N	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212899-05O	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212899-05X	Plastic 120ml HNO3 preserved Filtrates	D	NA		3.7	Y	Absent		K-6020S(180),CU-6020S(180),V-6020S(180),SE-6020S(180),MN-6020S(180),ZN-6020S(180),MG-6020S(180),BE-6020S(180),CO-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),PB-6020S(180),BA-6020S(180),NI-6020S(180),TL-6020S(180),NA-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),HG-S(28),AL-6020S(180),CD-6020S(180)
L2212899-06A	Vial HCl preserved	D	NA		3.7	Y	Absent		NYTCL-8260(14)
L2212899-06B	Vial HCl preserved	D	NA		3.7	Y	Absent		NYTCL-8260(14)
L2212899-06C	Vial HCl preserved	D	NA		3.7	Y	Absent		NYTCL-8260(14)
L2212899-06D	Amber 120ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8082-LVI(365)
L2212899-06E	Amber 120ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8082-LVI(365)
L2212899-06F	Amber 120ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8081(7)
L2212899-06G	Amber 120ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8081(7)
L2212899-06H	Plastic 250ml unpreserved	D	7	7	3.7	Y	Absent		-

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2212899-06I	Plastic 250ml HNO3 preserved	D	<2	<2	3.7	Y	Absent		FE-6020T(180),TL-6020T(180),SE-6020T(180),BA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CA-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),AL-6020T(180),HG-T(28),CD-6020T(180),MG-6020T(180),AG-6020T(180),CO-6020T(180)
L2212899-06J	Amber 250ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-06K	Amber 250ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-06L	Amber 250ml unpreserved	D	7	7	3.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212899-06M	Amber 250ml unpreserved	D	7	7	3.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212899-06N	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212899-06O	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212899-06X	Plastic 120ml HNO3 preserved Filtrates	D	NA		3.7	Y	Absent		V-6020S(180),K-6020S(180),SE-6020S(180),CU-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),ZN-6020S(180),MG-6020S(180),FE-6020S(180),CR-6020S(180),CA-6020S(180),PB-6020S(180),NA-6020S(180),TL-6020S(180),NI-6020S(180),BA-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),CD-6020S(180),HG-S(28),AL-6020S(180)
L2212899-07A	Vial HCl preserved	D	NA		3.7	Y	Absent		NYTCL-8260(14)
L2212899-07B	Vial HCl preserved	D	NA		3.7	Y	Absent		NYTCL-8260(14)
L2212899-07C	Vial HCl preserved	D	NA		3.7	Y	Absent		NYTCL-8260(14)
L2212899-07D	Amber 120ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8082-LVI(365)
L2212899-07E	Amber 120ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8082-LVI(365)
L2212899-07F	Amber 120ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8081(7)
L2212899-07G	Amber 120ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8081(7)
L2212899-07H	Plastic 250ml unpreserved	D	7	7	3.7	Y	Absent		-

*Values in parentheses indicate holding time in days

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2212899-07I	Plastic 250ml HNO3 preserved	D	<2	<2	3.7	Y	Absent		FE-6020T(180),SE-6020T(180),BA-6020T(180),TL-6020T(180),K-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),ZN-6020T(180),NA-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),MG-6020T(180),AL-6020T(180),HG-T(28),AG-6020T(180),CD-6020T(180),CO-6020T(180)
L2212899-07J	Amber 250ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-07K	Amber 250ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-07L	Amber 250ml unpreserved	D	7	7	3.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212899-07M	Amber 250ml unpreserved	D	7	7	3.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212899-07N	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212899-07O	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212899-07X	Plastic 120ml HNO3 preserved Filtrates	D	NA		3.7	Y	Absent		CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),MG-6020S(180),ZN-6020S(180),CO-6020S(180),BE-6020S(180),CR-6020S(180),CA-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),TL-6020S(180),PB-6020S(180),NI-6020S(180),AS-6020S(180),SB-6020S(180),AG-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2212899-08A	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2212899-08B	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2212899-08C	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2212899-08D	Amber 120ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8082-LVI(365)
L2212899-08E	Amber 120ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8082-LVI(365)
L2212899-08F	Amber 120ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8081(7)
L2212899-08G	Amber 120ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8081(7)
L2212899-08H	Plastic 250ml unpreserved	A	7	7	2.9	Y	Absent		-

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2212899-08I	Plastic 250ml HNO3 preserved	A	<2	<2	2.9	Y	Absent		FE-6020T(180),BA-6020T(180),SE-6020T(180),TL-6020T(180),K-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),AL-6020T(180),HG-T(28),MG-6020T(180),CD-6020T(180),AG-6020T(180),CO-6020T(180)
L2212899-08J	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-08K	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-08L	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212899-08M	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212899-08N	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212899-08O	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212899-08X	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.9	Y	Absent		K-6020S(180),CU-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),MG-6020S(180),CO-6020S(180),BE-6020S(180),ZN-6020S(180),FE-6020S(180),CA-6020S(180),CR-6020S(180),NI-6020S(180),BA-6020S(180),NA-6020S(180),TL-6020S(180),PB-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),HG-S(28),AL-6020S(180),CD-6020S(180)
L2212899-09A	Vial HCl preserved	B	NA		4.2	Y	Absent		NYTCL-8260(14)
L2212899-09B	Vial HCl preserved	B	NA		4.2	Y	Absent		NYTCL-8260(14)
L2212899-09C	Vial HCl preserved	B	NA		4.2	Y	Absent		NYTCL-8260(14)
L2212899-09D	Amber 120ml unpreserved	B	7	7	4.2	Y	Absent		NYTCL-8082-LVI(365)
L2212899-09E	Amber 120ml unpreserved	B	7	7	4.2	Y	Absent		NYTCL-8082-LVI(365)
L2212899-09F	Amber 120ml unpreserved	B	7	7	4.2	Y	Absent		NYTCL-8081(7)
L2212899-09G	Amber 120ml unpreserved	B	7	7	4.2	Y	Absent		NYTCL-8081(7)
L2212899-09H	Plastic 250ml unpreserved	B	7	7	4.2	Y	Absent		-

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2212899-09I	Plastic 250ml HNO3 preserved	B	<2	<2	4.2	Y	Absent		FE-6020T(180),BA-6020T(180),SE-6020T(180),TL-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),HG-T(28),MG-6020T(180),AL-6020T(180),CD-6020T(180),AG-6020T(180),CO-6020T(180)
L2212899-09J	Amber 250ml unpreserved	B	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-09K	Amber 250ml unpreserved	B	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212899-09L	Amber 250ml unpreserved	B	7	7	4.2	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212899-09M	Amber 250ml unpreserved	B	7	7	4.2	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212899-09N	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212899-09X	Plastic 120ml HNO3 preserved Filtrates	B	NA		4.2	Y	Absent		K-6020S(180),V-6020S(180),CU-6020S(180),SE-6020S(180),MN-6020S(180),CO-6020S(180),BE-6020S(180),MG-6020S(180),ZN-6020S(180),CR-6020S(180),FE-6020S(180),CA-6020S(180),PB-6020S(180),NI-6020S(180),BA-6020S(180),NA-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2212899-10A	Plastic 250ml unpreserved	E	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212899-11A	Vial HCl preserved	D	NA		3.7	Y	Absent		NYTCL-8260(14)
L2212899-11B	Vial HCl preserved	D	NA		3.7	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212899
Report Date: 04/01/22

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	TOT2101	**Lab Number:**	L2212899
Project Number:	TOT2101	**Report Date:**	04/01/22

GLOSSARY

Acronyms

DL - 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

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).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

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.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

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.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

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.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	TOT2101	**Lab Number:**	L2212899
Project Number:	TOT2101	**Report Date:**	04/01/22

Footnotes

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

Terms

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

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

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

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

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

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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.

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).

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

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:	TOT2101	**Lab Number:**	L2212899
Project Number:	TOT2101	**Report Date:**	04/01/22

Data Qualifiers

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.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	TOT2101	**Lab Number:**	L2212899
Project Number:	TOT2101	**Report Date:**	04/01/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

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 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
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: Chloride, 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, SM4500NO2-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: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **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 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, 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

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Date Rec'd in Lab: 3/11/22

ALPHA Job #: L2212849

Client Information
Client: PWGC
Address: 630 Johnson Ave
Bohemia, NY 11716
Phone: 631-589-6353
Fax:
Email: JenniferL@pwgroup.com

Project Information
Project Name: Total 101
Project Location: 737 4th Ave, Brooklyn, NY
Project #: Total 101
(Use Project name as Project #) ☐
Project Manager: Jennifer Lewis
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:

Lab to filter

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 (8260)	TCL SVOCs (8270)	TCL Pest/PCBs (8081B/8082)	TAL Metals, Total&Diss. (6010/7471)	1,4-Dioxane (8270-SIM)	PFAS (537.1 Modified)	Sample Specific Comments	Total Bottle
12849-01	MW-31	3/10/22	1010	GW	MPP	X	X	X	X	X	X		
-02	~~MW-6 MS~~ MW-6 (MS/MSD)		1115			X	X	X	X	X	X		
-03	MW-34		1300			X	X	X	X	X	X		
-04	MW-31		1405			X	X	X	X	X	X		
-05	MW-32		1530			X	X	X	X	X	X		
-06	MW-3		1640			X	X	X	X	X	X		
-07	MW-4		1730			X	X	X	X	X	X		
-08	DUP003		—	↓		X	X	X	X	X	X		
-09	Equipment Blank		1750	W		X	X	X	X	X	X		
-10	Field Blank	↓	1800	↓	↓						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
Michael Pecoraro	3/11/22 1110	Josh Mertens (NL)	3/11/22 11:20
Josh Mertens (NL)	3/11/22 16:10	Paul Mazzella	3/11/22/1650
Paul Mazzella 3/11/22			3/11/22 2300

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

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Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 3/11/22

ALPHA Job #: L2212899

Client Information
Client: PWGC
Address: 630 Johnson Ave
Bohemia, NY 11716
Phone: 631-589-0353
Fax:
Email: Jennifer@pwgcsat.com

Project Information
Project Name: TGT2101
Project Location: 737 4th Ave, Brooklyn, NY
Project #: TGT2101
(Use Project name as Project #) ☐
Project Manager: Jennifer Lewis
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
TCL VOCs (8260)

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	Sample Specific Comments
12899-11	Trip Blank	—	—	W	—	

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
Michael Pecora	3/11/22 1110	Jack Morton (FedEx)	3/11/22 11:20
Jack Morton (FedEx)	3/11/22 16:10	Paul Mazzella	3/11/22 1600
Paul Mazzella	3/11/22		

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:	L2212979
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Jennifer Lewis
Phone:	(631) 589-6353
Project Name:	TOT2101
Project Number:	TOT2101
Report Date:	04/01/22

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

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

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2212979-01	MW-7	WATER	737 4TH AVE, BROOKLYN, NY	03/11/22 10:15	03/11/22
L2212979-02	MW-86	WATER	737 4TH AVE, BROOKLYN, NY	03/11/22 13:05	03/11/22
L2212979-03	MW-002	WATER	737 4TH AVE, BROOKLYN, NY	03/11/22 13:55	03/11/22
L2212979-04	TRIP BLANK	WATER	737 4TH AVE, BROOKLYN, NY	03/11/22 00:00	03/11/22
L2212979-05	EQUIPMENT BLANK	WATER	737 4TH AVE, BROOKLYN, NY	03/11/22 14:25	03/11/22
L2212979-06	FIELD BLANK	WATER	737 4TH AVE, BROOKLYN, NY	03/11/22 14:25	03/11/22

Project Name:	TOT2101	**Lab Number:**	L2212979
Project Number:	TOT2101	**Report Date:**	04/01/22

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: TOT2101 **Lab Number:** L2212979
Project Number: TOT2101 **Report Date:** 04/01/22

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

L2212979-03: The sample containers for the following analyses were received empty: Semivolatile Organics, PCBs, Pesticides, and Total Metals due to limited sample volume. At the client's request, the analyses of Volatile Organics, Semivolatile Organics, and Dissolved Metals were performed.
L2212979-03: The analysis of PFAS was requested on the Chain of Custody; however, sample containers were not received. This was verified by the client.

Semivolatile Organics

The WG1616762-3 LCSD recoveries, associated with L2212979-01, -02, -03, and -05, are below the acceptance criteria for 2,4-dinitrophenol (0%) and benzoic acid (0%); however, they have been identified as "difficult" analytes. The results of the associated samples are reported.

Semivolatile Organics by SIM

The WG1616761-2/-3 LCS/LCSD recoveries, associated with L2212979-01, -02, -03, and -05, are below the acceptance criteria for pentachlorophenol (3%/4%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Perfluorinated Alkyl Acids by Isotope Dilution

L2212979-01 and -02: The sample was centrifuged and decanted prior to extraction due to sample matrix.
L2212979-01, -02, -05, WG1617912-1, and WG1617912-2: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

Project Name:	TOT2101	**Lab Number:**	L2212979
Project Number:	TOT2101	**Report Date:**	04/01/22

Case Narrative (continued)

Total Metals

L2212979-01: The sample has an elevated detection limit for mercury due to the dilution required by the sample matrix.

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: 04/01/22

ORGANICS

VOLATILES

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-01
Client ID: MW-7
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 10:15
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/21/22 17:17
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	1.8	J	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

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-01 Date Collected: 03/11/22 10:15

Client ID: MW-7 Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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	2.5	J	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

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-01 Date Collected: 03/11/22 10:15

Client ID: MW-7 Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	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	0.98	J	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	117		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	120		70-130

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-02
Client ID: MW-86
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 13:05
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/21/22 17:42
Analyst: MV

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	2.0		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

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-02 Date Collected: 03/11/22 13:05

Client ID: MW-86 Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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	0.74	J	ug/l	2.5	0.70	1
Xylenes, Total	0.74	J	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	5.1		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	2.2	J	ug/l	2.5	0.70	1
sec-Butylbenzene	2.8		ug/l	2.5	0.70	1
tert-Butylbenzene	0.86	J	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	8.1		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	1.4	J	ug/l	2.5	0.70	1

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-02 Date Collected: 03/11/22 13:05

Client ID: MW-86 Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	12		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	2.5		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	21		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	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	108		70-130

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-03
Client ID: MW-002
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 13:55
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/21/22 16:53
Analyst: MV

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	0.93	J	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	0.28	J	ug/l	0.50	0.16	1
Toluene	1.1	J	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

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-03 Date Collected: 03/11/22 13:55

Client ID: MW-002 Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	0.71	J	ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	0.71	J	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	66		ug/l	5.0	1.5	1
Carbon disulfide	3.0	J	ug/l	5.0	1.0	1
2-Butanone	7.2		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

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-03 Date Collected: 03/11/22 13:55

Client ID: MW-002 Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	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	117		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	120		70-130

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-04
Client ID: TRIP BLANK
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 00:00
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/21/22 16:28
Analyst: MV

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

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-04 Date Collected: 03/11/22 00:00

Client ID: TRIP BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-04 Date Collected: 03/11/22 00:00

Client ID: TRIP BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	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	115		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	117		70-130

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-05
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 14:25
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/21/22 16:03
Analyst: MV

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

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-05 Date Collected: 03/11/22 14:25

Client ID: EQUIPMENT BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-05 Date Collected: 03/11/22 14:25

Client ID: EQUIPMENT BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	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	115		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	84		70-130
Dibromofluoromethane	120		70-130

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/21/22 09:03
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1618293-5					
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: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/21/22 09:03
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1618293-5					
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: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/21/22 09:03
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1618293-5					
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

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	84		70-130
Dibromofluoromethane	114		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1618293-3 WG1618293-4								
Methylene chloride	110		110		70-130	0		20
1,1-Dichloroethane	120		130		70-130	8		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	120		130		63-132	8		20
1,2-Dichloropropane	120		120		70-130	0		20
Dibromochloromethane	110		110		63-130	0		20
1,1,2-Trichloroethane	94		100		70-130	6		20
Tetrachloroethene	120		120		70-130	0		20
Chlorobenzene	110		110		75-130	0		20
Trichlorofluoromethane	120		120		62-150	0		20
1,2-Dichloroethane	110		120		70-130	9		20
1,1,1-Trichloroethane	110		120		67-130	9		20
Bromodichloromethane	110		110		67-130	0		20
trans-1,3-Dichloropropene	84		86		70-130	2		20
cis-1,3-Dichloropropene	100		110		70-130	10		20
1,1-Dichloropropene	110		120		70-130	9		20
Bromoform	94		97		54-136	3		20
1,1,2,2-Tetrachloroethane	93		100		67-130	7		20
Benzene	110		120		70-130	9		20
Toluene	110		110		70-130	0		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	120		110		64-130	9		20
Bromomethane	120		130		39-139	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212979

Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1618293-3 WG1618293-4								
Vinyl chloride	140		**150**	Q	55-140	7		20
Chloroethane	**180**	Q	**190**	Q	55-138	5		20
1,1-Dichloroethene	120		120		61-145	0		20
trans-1,2-Dichloroethene	120		120		70-130	0		20
Trichloroethene	110		120		70-130	9		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		110		70-130	10		20
1,4-Dichlorobenzene	100		110		70-130	10		20
Methyl tert butyl ether	88		93		63-130	6		20
p/m-Xylene	110		115		70-130	4		20
o-Xylene	110		110		70-130	0		20
cis-1,2-Dichloroethene	120		120		70-130	0		20
Dibromomethane	110		110		70-130	0		20
1,2,3-Trichloropropane	90		97		64-130	7		20
Acrylonitrile	110		120		70-130	9		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	100		99		36-147	1		20
Acetone	110		110		58-148	0		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	110		97		63-138	13		20
Vinyl acetate	100		99		70-130	1		20
4-Methyl-2-pentanone	92		82		59-130	11		20
2-Hexanone	73		70		57-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212979

Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1618293-3 WG1618293-4								
Bromochloromethane	120		120		70-130	0		20
2,2-Dichloropropane	120		130		63-133	8		20
1,2-Dibromoethane	94		98		70-130	4		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	99		100		64-130	1		20
Bromobenzene	100		110		70-130	10		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	88		90		70-130	2		20
o-Chlorotoluene	99		100		70-130	1		20
p-Chlorotoluene	99		100		70-130	1		20
1,2-Dibromo-3-chloropropane	87		95		41-144	9		20
Hexachlorobutadiene	120		130		63-130	8		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	98		100		70-130	2		20
Naphthalene	79		85		70-130	7		20
n-Propylbenzene	100		100		69-130	0		20
1,2,3-Trichlorobenzene	100		110		70-130	10		20
1,2,4-Trichlorobenzene	100		110		70-130	10		20
1,3,5-Trimethylbenzene	96		97		64-130	1		20
1,2,4-Trimethylbenzene	98		100		70-130	2		20
1,4-Dioxane	100		98		56-162	2		20
p-Diethylbenzene	98		97		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212979

Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1618293-3 WG1618293-4								
p-Ethyltoluene	99		100		70-130	1		20
1,2,4,5-Tetramethylbenzene	91		91		70-130	0		20
Ethyl ether	96		100		59-134	4		20
trans-1,4-Dichloro-2-butene	84		91		70-130	8		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		103		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	88		89		70-130
Dibromofluoromethane	106		105		70-130

SEMIVOLATILES

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-01
Client ID: MW-7
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 10:15
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/25/22 16:11
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 17:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	7.0		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-01 Date Collected: 03/11/22 10:15

Client ID: MW-7 Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		21-120
Phenol-d6	65		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	85		10-120
4-Terphenyl-d14	78		41-149

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-01
Client ID: MW-7
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 10:15
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/16/22 07:56
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 03/14/22 17:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	32.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	46		15-110

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-01
Client ID: MW-7
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 10:15
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/19/22 16:35
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 15:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.05	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.71		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.21		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.37		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.60		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	2.9		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.79		ug/l	0.10	0.01	1
Chrysene	2.0		ug/l	0.10	0.01	1
Acenaphthylene	0.08	J	ug/l	0.10	0.01	1
Anthracene	0.10		ug/l	0.10	0.01	1
Benzo(ghi)perylene	1.4		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.12		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.28		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	1.5		ug/l	0.10	0.01	1
Pyrene	1.4		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.08	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-01 Date Collected: 03/11/22 10:15

Client ID: MW-7 Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	65		41-149

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-01
Client ID: MW-7
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 10:15
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/24/22 19:15
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 09:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	48.2		ng/l	2.48	0.506	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.48	0.492	1
Perfluorobutanesulfonic Acid (PFBS)	0.745	J	ng/l	2.48	0.295	1
Perfluorohexanoic Acid (PFHxA)	3.57		ng/l	2.48	0.407	1
Perfluoroheptanoic Acid (PFHpA)	1.54	J	ng/l	2.48	0.280	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.48	0.467	1
Perfluorooctanoic Acid (PFOA)	4.57		ng/l	2.48	0.293	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	6.60		ng/l	2.48	1.65	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.48	0.854	1
Perfluorononanoic Acid (PFNA)	0.993	J	ng/l	2.48	0.387	1
Perfluorooctanesulfonic Acid (PFOS)	5.16	F	ng/l	2.48	0.626	1
Perfluorodecanoic Acid (PFDA)	0.745	J	ng/l	2.48	0.377	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.48	1.50	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.48	0.804	1
Perfluoroundecanoic Acid (PFUnA)	0.437	J	ng/l	2.48	0.323	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.48	1.22	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.48	0.720	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	6.72		ng/l	2.48	0.998	1
Perfluorododecanoic Acid (PFDoA)	0.496	J	ng/l	2.48	0.462	1
Perfluorotridecanoic Acid (PFTrDA)	0.794	JF	ng/l	2.48	0.406	1
Perfluorotetradecanoic Acid (PFTA)	0.660	JF	ng/l	2.48	0.308	1
PFOA/PFOS, Total	9.73		ng/l	2.48	0.293	1

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-01 Date Collected: 03/11/22 10:15

Client ID: MW-7 Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	118		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	141		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	126		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	102		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	108		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	130		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	113		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**418**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	109		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	88		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**319**	Q	10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	74		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	77		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	17		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	61		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	57		22-136

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-02
Client ID: MW-86
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 13:05
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/25/22 16:35
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 17:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	1.7	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	1.2	J	ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-02 Date Collected: 03/11/22 13:05

Client ID: MW-86 Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	2.1		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	56		15-120
2,4,6-Tribromophenol	65		10-120
4-Terphenyl-d14	58		41-149

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-02
Client ID: MW-86
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 13:05
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/16/22 08:18
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 03/14/22 17:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	139	31.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	46		15-110

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-02
Client ID: MW-86
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 13:05
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/19/22 16:52
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 15:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	3.9		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.12		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.21		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.05	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.06	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.16		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.05	J	ug/l	0.10	0.01	1
Chrysene	0.09	J	ug/l	0.10	0.01	1
Acenaphthylene	0.61		ug/l	0.10	0.01	1
Anthracene	0.25		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.14		ug/l	0.10	0.01	1
Fluorene	4.2		ug/l	0.10	0.01	1
Phenanthrene	2.4		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.03	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.13		ug/l	0.10	0.01	1
Pyrene	0.28		ug/l	0.10	0.02	1
2-Methylnaphthalene	5.8		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-02 Date Collected: 03/11/22 13:05

Client ID: MW-86 Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	70		10-120
4-Terphenyl-d14	60		41-149

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-02
Client ID: MW-86
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 13:05
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/24/22 19:31
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 09:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	7.73		ng/l	2.01	0.411	1
Perfluoropentanoic Acid (PFPeA)	20.2		ng/l	2.01	0.399	1
Perfluorobutanesulfonic Acid (PFBS)	7.09		ng/l	2.01	0.240	1
Perfluorohexanoic Acid (PFHxA)	14.5		ng/l	2.01	0.330	1
Perfluoroheptanoic Acid (PFHpA)	12.0		ng/l	2.01	0.227	1
Perfluorohexanesulfonic Acid (PFHxS)	5.03		ng/l	2.01	0.378	1
Perfluorooctanoic Acid (PFOA)	38.0		ng/l	2.01	0.238	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	3.38		ng/l	2.01	1.34	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.01	0.693	1
Perfluorononanoic Acid (PFNA)	0.685	J	ng/l	2.01	0.314	1
Perfluorooctanesulfonic Acid (PFOS)	12.2		ng/l	2.01	0.507	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.01	0.306	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.01	1.22	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.01	0.652	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.01	0.262	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.01	0.987	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.01	0.584	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	15.8		ng/l	2.01	0.810	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.01	0.374	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.01	0.329	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.01	0.250	1
PFOA/PFOS, Total	50.2		ng/l	2.01	0.238	1

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-02 Date Collected: 03/11/22 13:05

Client ID: MW-86 Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	106		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	110		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	110		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	124		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	106		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**513**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	114		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	109		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**428**	Q	10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**156**	Q	24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	91		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	33		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**148**	Q	27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	89		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	78		22-136

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-03
Client ID: MW-002
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 13:55
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/28/22 00:37
Analyst: JRW

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 15:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	2.5	J	ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-03 Date Collected: 03/11/22 13:55

Client ID: MW-002 Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	2.9	J	ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	0.84	J	ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	19.	J	ug/l	50	2.6	1
Benzyl Alcohol	1.6	J	ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	60		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	59		15-120
2,4,6-Tribromophenol	68		10-120
4-Terphenyl-d14	72		41-149

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-03
Client ID: MW-002
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 13:55
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/19/22 17:08
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 15:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.03	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.06	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.03	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.05	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.05	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-03 Date Collected: 03/11/22 13:55

Client ID: MW-002 Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	80		10-120
4-Terphenyl-d14	68		41-149

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-05
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 14:25
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/25/22 15:48
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 17:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-05 Date Collected: 03/11/22 14:25

Client ID: EQUIPMENT BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	49		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	40		10-120
4-Terphenyl-d14	60		41-149

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-05
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 14:25
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/16/22 08:40
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 03/14/22 17:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	134	30.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	44		15-110

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-05
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 14:25
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/19/22 17:25
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 15:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-05 Date Collected: 03/11/22 14:25

Client ID: EQUIPMENT BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

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	41		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	64		10-120
4-Terphenyl-d14	66		41-149

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-05
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 14:25
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/24/22 19:48
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 09:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.74	0.356	1
Perfluoropentanoic Acid (PFPeA)	0.384	J	ng/l	1.74	0.345	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.74	0.207	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.74	0.286	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.74	0.196	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.74	0.328	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.74	0.206	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.74	1.16	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.74	0.600	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.74	0.272	1
Perfluorooctanesulfonic Acid (PFOS)	0.488	J	ng/l	1.74	0.439	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.74	0.265	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.74	1.06	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.74	0.565	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.74	0.227	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.74	0.854	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.74	0.506	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.74	0.701	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.74	0.324	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.74	0.285	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.74	0.216	1
PFOA/PFOS, Total	0.488	J	ng/l	1.74	0.206	1

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-05 Date Collected: 03/11/22 14:25

Client ID: EQUIPMENT BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	109		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	144		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	116		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	108		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	109		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	119		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	120		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	111		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	113		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	118		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**128**	Q	24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	116		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	47		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**132**	Q	27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	118		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	93		22-136

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-06
Client ID: FIELD BLANK
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 14:25
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/24/22 20:04
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 09:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.76	0.359	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.76	0.349	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.76	0.210	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.76	0.289	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.76	0.198	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.76	0.331	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.76	0.208	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.76	1.17	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.76	0.606	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.76	0.275	1
Perfluorooctanesulfonic Acid (PFOS)	1.48	J	ng/l	1.76	0.444	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.76	0.268	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.76	1.07	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.76	0.571	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.76	0.229	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.76	0.863	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.76	0.511	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.76	0.708	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.76	0.328	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.76	0.288	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.76	0.218	1
PFOA/PFOS, Total	1.48	J	ng/l	1.76	0.208	1

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-06 Date Collected: 03/11/22 14:25

Client ID: FIELD BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	108		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	140		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	116		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	108		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	108		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	118		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	106		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	110		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	109		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	108		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	119		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	115		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	114		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	48		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	118		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	120		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	97		22-136

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 03/16/22 00:25
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 03/14/22 17:02

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 01-02,05 Batch: WG1615435-1					
1,4-Dioxane	ND		ng/l	150	33.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	41		15-110

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 03/18/22 20:45
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 10:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03,05 Batch: WG1616761-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	0.03	J	ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 03/18/22 20:45
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 10:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03,05 Batch: WG1616761-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	55		15-120
2,4,6-Tribromophenol	27		10-120
4-Terphenyl-d14	64		41-149

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/25/22 09:59
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 10:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05 Batch: WG1616762-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/25/22 09:59
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 10:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05 Batch: WG1616762-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/25/22 09:59
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 10:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05 Batch: WG1616762-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	49		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	17		10-120
4-Terphenyl-d14	64		41-149

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/24/22 18:42
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 09:40

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-02,05-06 Batch: WG1617912-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	1.00	J	ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	1.00	J	ng/l	2.00	0.236

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/24/22 18:42
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 03/21/22 09:40

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-02,05-06 Batch: WG1617912-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	106		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	135		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	105		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	106		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	114		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	97		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	109		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	109		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	107		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**124**	Q	24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	110		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	52		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	125		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	117		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	97		22-136

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212979

Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01-02,05 Batch: WG1615435-2 WG1615435-3								
1,4-Dioxane	124		125		40-140	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	38		41		15-110

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03,05 Batch: WG1616761-2 WG1616761-3								
Acenaphthene	71		65		40-140	9		40
2-Chloronaphthalene	67		61		40-140	9		40
Fluoranthene	74		68		40-140	8		40
Hexachlorobutadiene	63		56		40-140	12		40
Naphthalene	65		58		40-140	11		40
Benzo(a)anthracene	72		69		40-140	4		40
Benzo(a)pyrene	68		62		40-140	9		40
Benzo(b)fluoranthene	79		71		40-140	11		40
Benzo(k)fluoranthene	76		72		40-140	5		40
Chrysene	74		66		40-140	11		40
Acenaphthylene	60		55		40-140	9		40
Anthracene	72		65		40-140	10		40
Benzo(ghi)perylene	77		73		40-140	5		40
Fluorene	72		66		40-140	9		40
Phenanthrene	72		66		40-140	9		40
Dibenzo(a,h)anthracene	81		75		40-140	8		40
Indeno(1,2,3-cd)pyrene	78		74		40-140	5		40
Pyrene	75		69		40-140	8		40
2-Methylnaphthalene	67		60		40-140	11		40
Pentachlorophenol	**3**	Q	**4**	Q	40-140	16		40
Hexachlorobenzene	74		67		40-140	10		40
Hexachloroethane	64		60		40-140	6		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03,05 Batch: WG1616761-2 WG1616761-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	54		34		21-120
Phenol-d6	49		36		10-120
Nitrobenzene-d5	69		62		23-120
2-Fluorobiphenyl	66		59		15-120
2,4,6-Tribromophenol	51		32		10-120
4-Terphenyl-d14	75		68		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212979

Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05 Batch: WG1616762-2 WG1616762-3								
Acenaphthene	60		57		37-111	5		30
1,2,4-Trichlorobenzene	51		50		39-98	2		30
Hexachlorobenzene	60		56		40-140	7		30
Bis(2-chloroethyl)ether	55		53		40-140	4		30
2-Chloronaphthalene	56		54		40-140	4		30
1,2-Dichlorobenzene	51		52		40-140	2		30
1,3-Dichlorobenzene	51		51		40-140	0		30
1,4-Dichlorobenzene	51		52		36-97	2		30
3,3'-Dichlorobenzidine	47		44		40-140	7		30
2,4-Dinitrotoluene	55		52		48-143	6		30
2,6-Dinitrotoluene	54		54		40-140	0		30
Fluoranthene	65		61		40-140	6		30
4-Chlorophenyl phenyl ether	61		58		40-140	5		30
4-Bromophenyl phenyl ether	61		57		40-140	7		30
Bis(2-chloroisopropyl)ether	56		57		40-140	2		30
Bis(2-chloroethoxy)methane	56		55		40-140	2		30
Hexachlorobutadiene	51		49		40-140	4		30
Hexachlorocyclopentadiene	**34**	Q	**34**	Q	40-140	0		30
Hexachloroethane	49		50		40-140	2		30
Isophorone	54		53		40-140	2		30
Naphthalene	55		53		40-140	4		30
Nitrobenzene	53		55		40-140	4		30
NDPA/DPA	59		56		40-140	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212979

Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05 Batch: WG1616762-2 WG1616762-3								
n-Nitrosodi-n-propylamine	58		57		29-132	2		30
Bis(2-ethylhexyl)phthalate	66		64		40-140	3		30
Butyl benzyl phthalate	65		63		40-140	3		30
Di-n-butylphthalate	69		67		40-140	3		30
Di-n-octylphthalate	67		65		40-140	3		30
Diethyl phthalate	62		60		40-140	3		30
Dimethyl phthalate	61		57		40-140	7		30
Benzo(a)anthracene	65		61		40-140	6		30
Benzo(a)pyrene	63		60		40-140	5		30
Benzo(b)fluoranthene	68		64		40-140	6		30
Benzo(k)fluoranthene	66		60		40-140	10		30
Chrysene	64		60		40-140	6		30
Acenaphthylene	58		56		45-123	4		30
Anthracene	63		57		40-140	10		30
Benzo(ghi)perylene	65		62		40-140	5		30
Fluorene	63		58		40-140	8		30
Phenanthrene	63		58		40-140	8		30
Dibenzo(a,h)anthracene	68		64		40-140	6		30
Indeno(1,2,3-cd)pyrene	70		66		40-140	6		30
Pyrene	64		60		26-127	6		30
Biphenyl	58		56		40-140	4		30
4-Chloroaniline	44		**39**	Q	40-140	12		30
2-Nitroaniline	53		52		52-143	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05 Batch: WG1616762-2 WG1616762-3								
3-Nitroaniline	46		43		25-145	7		30
4-Nitroaniline	**49**	Q	**49**	Q	51-143	0		30
Dibenzofuran	61		57		40-140	7		30
2-Methylnaphthalene	57		54		40-140	5		30
1,2,4,5-Tetrachlorobenzene	55		52		2-134	6		30
Acetophenone	54		53		39-129	2		30
2,4,6-Trichlorophenol	50		**22**	Q	30-130	**78**	Q	30
p-Chloro-m-cresol	60		53		23-97	12		30
2-Chlorophenol	54		34		27-123	**45**	Q	30
2,4-Dichlorophenol	57		35		30-130	**48**	Q	30
2,4-Dimethylphenol	41		50		30-130	20		30
2-Nitrophenol	50		30		30-130	**50**	Q	30
4-Nitrophenol	44		21		10-80	**71**	Q	30
2,4-Dinitrophenol	34		**0**	Q	20-130	NC		30
4,6-Dinitro-o-cresol	37		**17**	Q	20-164	**74**	Q	30
Pentachlorophenol	24		10		9-103	**83**	Q	30
Phenol	41		29		12-110	**34**	Q	30
2-Methylphenol	51		48		30-130	6		30
3-Methylphenol/4-Methylphenol	55		48		30-130	14		30
2,4,5-Trichlorophenol	55		31		30-130	**56**	Q	30
Benzoic Acid	37		**0**	Q	10-164	NC		30
Benzyl Alcohol	51		52		26-116	2		30
Carbazole	64		60		55-144	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05 Batch: WG1616762-2 WG1616762-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	48		26		21-120
Phenol-d6	42		27		10-120
Nitrobenzene-d5	52		52		23-120
2-Fluorobiphenyl	57		54		15-120
2,4,6-Tribromophenol	51		23		10-120
4-Terphenyl-d14	65		59		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02,05-06 Batch: WG1617912-2

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorobutanoic Acid (PFBA)	110		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	107		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	107		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	114		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	108		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	135		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	112		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	135		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	110		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	112		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	129		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	117		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	104		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	108		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	109		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	116		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	111		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	110		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	104		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	126		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	123		-		59-182	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02,05-06 Batch: WG1617912-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	106				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	135				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	113				70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	105				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	105				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	117				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	114				14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	107				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	111				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	107				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	133				10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**121**	Q			24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	114				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	52				10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**138**	Q			27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	129				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	105				22-136

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2212979
Report Date: 04/01/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02,05-06 QC Batch ID: WG1617912-3 QC Sample: L2213294-02 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	37.6	38.1	101		-	-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	ND	37.6	37.3	99		-	-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	33.4	32.5	97		-	-		65-157	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	35.3	43.9	124		-	-		37-219	-		30
Perfluorohexanoic Acid (PFHxA)	ND	37.6	40.0	106		-	-		69-168	-		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	35.4	37.8	107		-	-		52-156	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	37.6	37.4	99		-	-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	34.4	43.0	125		-	-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	ND	37.6	38.8	103		-	-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	35.8	40.4	113		-	-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	35.9	36.9	103		-	-		61-179	-		30
Perfluorononanoic Acid (PFNA)	ND	37.6	38.5	102		-	-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	ND	34.9	40.6	116		-	-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	ND	37.6	39.8	106		-	-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	36.1	38.1	105		-	-		56-173	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	36.2	36.9	102		-	-		48-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	37.6	36.0	96		-	-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	37.6	36.9	98		-	-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	36.4	34.4	95		-	-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	ND	37.6	36.3F	96		-	-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	37.6	38.9	103		-	-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	ND	37.6	36.9	98		-	-		67-153	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2212979
Report Date: 04/01/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02,05-06 QC Batch ID: WG1617912-3 QC Sample: L2213294-02 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	37.6	46.1	123		-	-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	37.6	43.0	114		-	-		59-182	-		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	367	399	109		-	-		57-162	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	35.6	36.1	101		-	-		69-143	-		30
Perfluorohexadecanoic Acid (PFHxDA)	1.36J	37.6	48.2	124		-	-		40-167	-		30
Perfluorooctadecanoic Acid (PFODA)	ND	37.6	24.3	65		-	-		10-119	-		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	121				10-162
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	97				12-142
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	121				14-147
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	125				10-165
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	120				27-126
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	116				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	117				55-137
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	106				62-124
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	106				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	107				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	115				71-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	121				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	91				22-136
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	91				10-206

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101 ***Lab Number:*** L2212979

Project Number: TOT2101 ***Report Date:*** 04/01/22

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02,05-06 QC Batch ID: WG1617912-3 QC Sample: L2213294-02 Client ID: MS Sample												

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
Perfluoro[13C4]Butanoic Acid (MPFBA)	102				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	137				62-163
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	22				10-112
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108				69-131
Perfluoro[13C8]Octanoic Acid (M8PFOA)	107				62-129
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	110				59-139
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	112				70-131

Lab Duplicate Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02,05-06 QC Batch ID: WG1617912-4 QC Sample: L2213294-03 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/l	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/l	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/l	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/l	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	0.335J	ng/l	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	0.221JF	0.297J	ng/l	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	0.590J	0.595JF	ng/l	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/l	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02,05-06 QC Batch ID: WG1617912-4 QC Sample: L2213294-03 Client ID: DUP Sample						
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ND	ng/l	NC		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ND	ng/l	NC		30
Perfluorohexadecanoic Acid (PFHxDA)	1.36J	1.38J	ng/l	NC		30
Perfluorooctadecanoic Acid (PFODA)	ND	ND	ng/l	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		97		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	136		129		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	117		113		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	96		95		12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	104		101		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	106		102		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	118		115		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	107		103		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	110		109		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	109		108		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	111		109		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	103		102		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	118		129		10-162

Lab Duplicate Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02,05-06 QC Batch ID: WG1617912-4 QC Sample: L2213294-03 Client ID: DUP Sample

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	114		103		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	110		110		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	22		19		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	112		99		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	113		110		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	91		91		22-136
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	126		114		10-165
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	88		87		10-206

PCBS

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-01
Client ID: MW-7
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 10:15
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 03/18/22 13:14
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 16:55
Cleanup Method: EPA 3665A
Cleanup Date: 03/18/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/18/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	92		30-150	B

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-02
Client ID: MW-86
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 13:05
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 03/18/22 13:23
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 16:55
Cleanup Method: EPA 3665A
Cleanup Date: 03/18/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/18/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-05
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 14:25
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 03/18/22 13:31
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 16:55
Cleanup Method: EPA 3665A
Cleanup Date: 03/18/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/18/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/18/22 12:49
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 16:55
Cleanup Method: EPA 3665A
Cleanup Date: 03/18/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/18/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02,05 Batch: WG1616946-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	102		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02,05 Batch: WG1616946-2 WG1616946-3									
Aroclor 1016	81		77		40-140	5		50	A
Aroclor 1260	81		77		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		75		30-150	A
Decachlorobiphenyl	88		88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		76		30-150	B
Decachlorobiphenyl	93		97		30-150	B

PESTICIDES

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-01
Client ID: MW-7
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 10:15
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 03/18/22 17:38
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 03:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-01 Date Collected: 03/11/22 10:15

Client ID: MW-7 Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	104		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-02
Client ID: MW-86
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 13:05
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 03/18/22 17:48
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 03:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-02 Date Collected: 03/11/22 13:05

Client ID: MW-86 Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-05
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/11/22 14:25
Date Received: 03/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 03/18/22 17:59
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 03:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-05 Date Collected: 03/11/22 14:25

Client ID: EQUIPMENT BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/18/22 14:45
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 02:45

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02,05 Batch: WG1616582-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/18/22 14:45
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 02:45

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02,05 Batch: WG1616582-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	73		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212979

Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02,05 Batch: WG1616582-2 WG1616582-3									
Delta-BHC	87		90		30-150	3		20	A
Lindane	96		101		30-150	5		20	A
Alpha-BHC	98		102		30-150	4		20	A
Beta-BHC	96		106		30-150	10		20	A
Heptachlor	99		103		30-150	4		20	A
Aldrin	96		104		30-150	9		20	A
Heptachlor epoxide	90		96		30-150	7		20	A
Endrin	99		107		30-150	8		20	A
Endrin aldehyde	94		98		30-150	5		20	A
Endrin ketone	95		104		30-150	9		20	A
Dieldrin	103		112		30-150	8		20	A
4,4'-DDE	92		100		30-150	8		20	A
4,4'-DDD	104		112		30-150	7		20	A
4,4'-DDT	100		107		30-150	7		20	A
Endosulfan I	94		101		30-150	7		20	A
Endosulfan II	97		104		30-150	7		20	A
Endosulfan sulfate	99		105		30-150	6		20	A
Methoxychlor	97		100		30-150	3		20	A
cis-Chlordane	83		92		30-150	11		20	A
trans-Chlordane	104		108		30-150	4		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212979

Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02,05 Batch: WG1616582-2 WG1616582-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		98		30-150	A
Decachlorobiphenyl	99		109		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		77		30-150	B
Decachlorobiphenyl	77		85		30-150	B

METALS

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-01 Date Collected: 03/11/22 10:15

Client ID: MW-7 Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6.11		mg/l	0.0100	0.00327	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Antimony, Total	0.00134	J	mg/l	0.00400	0.00042	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Arsenic, Total	0.00751		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Barium, Total	0.06951		mg/l	0.00050	0.00017	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Beryllium, Total	0.00044	J	mg/l	0.00050	0.00010	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Cadmium, Total	0.00079		mg/l	0.00020	0.00005	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Calcium, Total	17.3		mg/l	0.100	0.0394	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Chromium, Total	0.02048		mg/l	0.00100	0.00017	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Cobalt, Total	0.00554		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Copper, Total	0.08869		mg/l	0.00100	0.00038	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Iron, Total	11.8		mg/l	0.0500	0.0191	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Lead, Total	0.06083		mg/l	0.00100	0.00034	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Magnesium, Total	5.63		mg/l	0.0700	0.0242	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Manganese, Total	0.3757		mg/l	0.00100	0.00044	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Mercury, Total	0.00027	J	mg/l	0.00040	0.00018	2	03/17/22 16:26	03/30/22 20:51	EPA 7470A	1,7470A	ZK
Nickel, Total	0.04834		mg/l	0.00200	0.00055	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Potassium, Total	3.14		mg/l	0.100	0.0309	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Silver, Total	0.00222		mg/l	0.00040	0.00016	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Sodium, Total	68.8		mg/l	0.100	0.0293	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Thallium, Total	0.00030	J	mg/l	0.00200	0.00014	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Vanadium, Total	0.02016		mg/l	0.00500	0.00157	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Zinc, Total	1.277		mg/l	0.01000	0.00341	1	03/17/22 15:18	03/23/22 18:26	EPA 3005A	1,6020B	SV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.172		mg/l	0.0100	0.00327	1	03/22/22 14:48	03/22/22 20:17	EPA 3005A	1,6020B	SV
Antimony, Dissolved	0.00175	J	mg/l	0.00400	0.00042	1	03/22/22 14:48	03/22/22 20:17	EPA 3005A	1,6020B	SV
Arsenic, Dissolved	0.00110		mg/l	0.00050	0.00016	1	03/22/22 14:48	03/22/22 20:17	EPA 3005A	1,6020B	SV
Barium, Dissolved	0.01676		mg/l	0.00050	0.00017	1	03/22/22 14:48	03/22/22 20:17	EPA 3005A	1,6020B	SV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	03/22/22 14:48	03/22/22 20:17	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-01 Date Collected: 03/11/22 10:15

Client ID: MW-7 Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	03/22/22 14:48	03/22/22 20:17	EPA 3005A	1,6020B	SV
Calcium, Dissolved	13.4		mg/l	0.100	0.0394	1	03/22/22 14:48	03/22/22 20:17	EPA 3005A	1,6020B	SV
Chromium, Dissolved	0.00061	J	mg/l	0.00100	0.00017	1	03/22/22 14:48	03/22/22 20:17	EPA 3005A	1,6020B	SV
Cobalt, Dissolved	0.00083		mg/l	0.00050	0.00016	1	03/22/22 14:48	03/22/22 20:17	EPA 3005A	1,6020B	SV
Copper, Dissolved	0.00178		mg/l	0.00100	0.00038	1	03/22/22 14:48	03/22/22 20:17	EPA 3005A	1,6020B	SV
Iron, Dissolved	0.293		mg/l	0.0500	0.0191	1	03/23/22 15:40	03/23/22 20:16	EPA 3005A	1,6020B	SV
Lead, Dissolved	0.00086	J	mg/l	0.00100	0.00034	1	03/22/22 14:48	03/22/22 20:17	EPA 3005A	1,6020B	SV
Magnesium, Dissolved	2.08		mg/l	0.0700	0.0242	1	03/22/22 14:48	03/22/22 20:17	EPA 3005A	1,6020B	SV
Manganese, Dissolved	0.2190		mg/l	0.00200	0.00044	1	03/22/22 14:48	03/22/22 20:17	EPA 3005A	1,6020B	SV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	03/22/22 14:51	03/23/22 07:22	EPA 7470A	1,7470A	ZK
Nickel, Dissolved	0.00249		mg/l	0.00200	0.00055	1	03/22/22 14:48	03/22/22 20:17	EPA 3005A	1,6020B	SV
Potassium, Dissolved	2.26		mg/l	0.100	0.0309	1	03/22/22 14:48	03/22/22 20:17	EPA 3005A	1,6020B	SV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	03/22/22 14:48	03/22/22 20:17	EPA 3005A	1,6020B	SV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	03/22/22 14:48	03/22/22 20:17	EPA 3005A	1,6020B	SV
Sodium, Dissolved	71.4		mg/l	0.100	0.0293	1	03/22/22 14:48	03/22/22 20:17	EPA 3005A	1,6020B	SV
Thallium, Dissolved	0.00015	J	mg/l	0.00100	0.00014	1	03/22/22 14:48	03/22/22 20:17	EPA 3005A	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	03/22/22 14:48	03/22/22 20:17	EPA 3005A	1,6020B	SV
Zinc, Dissolved	0.02701		mg/l	0.01000	0.00341	1	03/22/22 14:48	03/22/22 20:17	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-02 Date Collected: 03/11/22 13:05

Client ID: MW-86 Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0978		mg/l	0.0100	0.00327	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Arsenic, Total	0.02213		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Barium, Total	0.1683		mg/l	0.00050	0.00017	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Cadmium, Total	0.00098		mg/l	0.00020	0.00005	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Calcium, Total	151.		mg/l	0.100	0.0394	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Chromium, Total	0.00073	J	mg/l	0.00100	0.00017	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Cobalt, Total	0.00105		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Copper, Total	0.00826		mg/l	0.00100	0.00038	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Iron, Total	45.2		mg/l	0.0500	0.0191	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Lead, Total	0.00250		mg/l	0.00100	0.00034	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Magnesium, Total	56.8		mg/l	0.0700	0.0242	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Manganese, Total	2.344		mg/l	0.00100	0.00044	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/17/22 16:26	03/30/22 20:55	EPA 7470A	1,7470A	ZK
Nickel, Total	0.00161	J	mg/l	0.00200	0.00055	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Potassium, Total	10.6		mg/l	0.100	0.0309	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Sodium, Total	171.		mg/l	0.100	0.0293	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Thallium, Total	ND		mg/l	0.00200	0.00014	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Vanadium, Total	0.00200	J	mg/l	0.00500	0.00157	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Zinc, Total	0.03525		mg/l	0.01000	0.00341	1	03/17/22 15:18	03/23/22 18:31	EPA 3005A	1,6020B	SV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00433	J	mg/l	0.0100	0.00327	1	03/22/22 14:48	03/22/22 20:22	EPA 3005A	1,6020B	SV
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	03/22/22 14:48	03/22/22 20:22	EPA 3005A	1,6020B	SV
Arsenic, Dissolved	0.00289		mg/l	0.00050	0.00016	1	03/22/22 14:48	03/22/22 20:22	EPA 3005A	1,6020B	SV
Barium, Dissolved	0.1215		mg/l	0.00050	0.00017	1	03/22/22 14:48	03/22/22 20:22	EPA 3005A	1,6020B	SV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	03/22/22 14:48	03/22/22 20:22	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-02 Date Collected: 03/11/22 13:05

Client ID: MW-86 Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	03/22/22 14:48	03/22/22 20:22	EPA 3005A	1,6020B	SV
Calcium, Dissolved	148.		mg/l	0.100	0.0394	1	03/22/22 14:48	03/22/22 20:22	EPA 3005A	1,6020B	SV
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	03/22/22 14:48	03/22/22 20:22	EPA 3005A	1,6020B	SV
Cobalt, Dissolved	0.00078		mg/l	0.00050	0.00016	1	03/22/22 14:48	03/22/22 20:22	EPA 3005A	1,6020B	SV
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	03/22/22 14:48	03/22/22 20:22	EPA 3005A	1,6020B	SV
Iron, Dissolved	18.8		mg/l	0.0500	0.0191	1	03/23/22 15:40	03/23/22 20:21	EPA 3005A	1,6020B	SV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	03/22/22 14:48	03/22/22 20:22	EPA 3005A	1,6020B	SV
Magnesium, Dissolved	47.2		mg/l	0.0700	0.0242	1	03/22/22 14:48	03/22/22 20:22	EPA 3005A	1,6020B	SV
Manganese, Dissolved	2.054		mg/l	0.00200	0.00044	1	03/22/22 14:48	03/22/22 20:22	EPA 3005A	1,6020B	SV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	03/22/22 14:51	03/23/22 07:25	EPA 7470A	1,7470A	ZK
Nickel, Dissolved	0.00081	J	mg/l	0.00200	0.00055	1	03/22/22 14:48	03/22/22 20:22	EPA 3005A	1,6020B	SV
Potassium, Dissolved	10.5		mg/l	0.100	0.0309	1	03/22/22 14:48	03/22/22 20:22	EPA 3005A	1,6020B	SV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	03/22/22 14:48	03/22/22 20:22	EPA 3005A	1,6020B	SV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	03/22/22 14:48	03/22/22 20:22	EPA 3005A	1,6020B	SV
Sodium, Dissolved	172.		mg/l	0.100	0.0293	1	03/22/22 14:48	03/22/22 20:22	EPA 3005A	1,6020B	SV
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	03/22/22 14:48	03/22/22 20:22	EPA 3005A	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	03/22/22 14:48	03/22/22 20:22	EPA 3005A	1,6020B	SV
Zinc, Dissolved	0.00380	J	mg/l	0.01000	0.00341	1	03/22/22 14:48	03/22/22 20:22	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-03 Date Collected: 03/11/22 13:55

Client ID: MW-002 Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00987	J	mg/l	0.0100	0.00327	1	03/22/22 14:48	03/22/22 20:57	EPA 3005A	1,6020B	SV
Antimony, Dissolved	0.00080	J	mg/l	0.00400	0.00042	1	03/22/22 14:48	03/22/22 20:57	EPA 3005A	1,6020B	SV
Arsenic, Dissolved	0.00078		mg/l	0.00050	0.00016	1	03/22/22 14:48	03/22/22 20:57	EPA 3005A	1,6020B	SV
Barium, Dissolved	0.06226		mg/l	0.00050	0.00017	1	03/22/22 14:48	03/22/22 20:57	EPA 3005A	1,6020B	SV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	03/22/22 14:48	03/22/22 20:57	EPA 3005A	1,6020B	SV
Cadmium, Dissolved	0.00049		mg/l	0.00020	0.00005	1	03/22/22 14:48	03/22/22 20:57	EPA 3005A	1,6020B	SV
Calcium, Dissolved	64.7		mg/l	0.100	0.0394	1	03/22/22 14:48	03/22/22 20:57	EPA 3005A	1,6020B	SV
Chromium, Dissolved	0.00081	J	mg/l	0.00100	0.00017	1	03/22/22 14:48	03/22/22 20:57	EPA 3005A	1,6020B	SV
Cobalt, Dissolved	0.02034		mg/l	0.00050	0.00016	1	03/22/22 14:48	03/22/22 20:57	EPA 3005A	1,6020B	SV
Copper, Dissolved	0.00235		mg/l	0.00100	0.00038	1	03/22/22 14:48	03/22/22 20:57	EPA 3005A	1,6020B	SV
Iron, Dissolved	0.0556		mg/l	0.0500	0.0191	1	03/23/22 15:40	03/23/22 21:13	EPA 3005A	1,6020B	SV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	03/22/22 14:48	03/22/22 20:57	EPA 3005A	1,6020B	SV
Magnesium, Dissolved	20.8		mg/l	0.0700	0.0242	1	03/22/22 14:48	03/22/22 20:57	EPA 3005A	1,6020B	SV
Manganese, Dissolved	7.382		mg/l	0.00200	0.00044	1	03/22/22 14:48	03/22/22 20:57	EPA 3005A	1,6020B	SV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	03/22/22 14:51	03/23/22 07:28	EPA 7470A	1,7470A	ZK
Nickel, Dissolved	0.07316		mg/l	0.00200	0.00055	1	03/22/22 14:48	03/22/22 20:57	EPA 3005A	1,6020B	SV
Potassium, Dissolved	37.8		mg/l	0.100	0.0309	1	03/22/22 14:48	03/22/22 20:57	EPA 3005A	1,6020B	SV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	03/22/22 14:48	03/22/22 20:57	EPA 3005A	1,6020B	SV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	03/22/22 14:48	03/22/22 20:57	EPA 3005A	1,6020B	SV
Sodium, Dissolved	101.		mg/l	0.100	0.0293	1	03/22/22 14:48	03/22/22 20:57	EPA 3005A	1,6020B	SV
Thallium, Dissolved	0.00015	J	mg/l	0.00100	0.00014	1	03/22/22 14:48	03/22/22 20:57	EPA 3005A	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	03/22/22 14:48	03/22/22 20:57	EPA 3005A	1,6020B	SV
Zinc, Dissolved	0.02247		mg/l	0.01000	0.00341	1	03/22/22 14:48	03/22/22 20:57	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-05 Date Collected: 03/11/22 14:25

Client ID: EQUIPMENT BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.00671	J	mg/l	0.0100	0.00327	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Barium, Total	ND		mg/l	0.00050	0.00017	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Calcium, Total	ND		mg/l	0.100	0.0394	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Chromium, Total	ND		mg/l	0.00100	0.00017	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Copper, Total	ND		mg/l	0.00100	0.00038	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Iron, Total	0.0212	J	mg/l	0.0500	0.0191	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Manganese, Total	ND		mg/l	0.00100	0.00044	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/17/22 16:26	03/30/22 20:58	EPA 7470A	1,7470A	ZK
Nickel, Total	ND		mg/l	0.00200	0.00055	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Potassium, Total	ND		mg/l	0.100	0.0309	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Sodium, Total	ND		mg/l	0.100	0.0293	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Thallium, Total	0.00019	J	mg/l	0.00200	0.00014	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	03/17/22 15:18	03/23/22 17:32	EPA 3005A	1,6020B	SV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	03/22/22 14:48	03/22/22 20:52	EPA 3005A	1,6020B	SV
Antimony, Dissolved	0.00054	J	mg/l	0.00400	0.00042	1	03/22/22 14:48	03/22/22 20:52	EPA 3005A	1,6020B	SV
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	03/22/22 14:48	03/22/22 20:52	EPA 3005A	1,6020B	SV
Barium, Dissolved	0.00055		mg/l	0.00050	0.00017	1	03/22/22 14:48	03/22/22 20:52	EPA 3005A	1,6020B	SV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	03/22/22 14:48	03/22/22 20:52	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

SAMPLE RESULTS

Lab ID: L2212979-05 Date Collected: 03/11/22 14:25

Client ID: EQUIPMENT BLANK Date Received: 03/11/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	03/22/22 14:48	03/22/22 20:52	EPA 3005A	1,6020B	SV
Calcium, Dissolved	0.128		mg/l	0.100	0.0394	1	03/22/22 14:48	03/22/22 20:52	EPA 3005A	1,6020B	SV
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	03/22/22 14:48	03/22/22 20:52	EPA 3005A	1,6020B	SV
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	03/22/22 14:48	03/22/22 20:52	EPA 3005A	1,6020B	SV
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	03/22/22 14:48	03/22/22 20:52	EPA 3005A	1,6020B	SV
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	03/23/22 15:40	03/23/22 20:43	EPA 3005A	1,6020B	SV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	03/22/22 14:48	03/22/22 20:52	EPA 3005A	1,6020B	SV
Magnesium, Dissolved	0.0375	J	mg/l	0.0700	0.0242	1	03/22/22 14:48	03/22/22 20:52	EPA 3005A	1,6020B	SV
Manganese, Dissolved	0.00146	J	mg/l	0.00200	0.00044	1	03/22/22 14:48	03/22/22 20:52	EPA 3005A	1,6020B	SV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	03/22/22 14:51	03/23/22 07:32	EPA 7470A	1,7470A	ZK
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	03/22/22 14:48	03/22/22 20:52	EPA 3005A	1,6020B	SV
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	03/22/22 14:48	03/22/22 20:52	EPA 3005A	1,6020B	SV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	03/22/22 14:48	03/22/22 20:52	EPA 3005A	1,6020B	SV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	03/22/22 14:48	03/22/22 20:52	EPA 3005A	1,6020B	SV
Sodium, Dissolved	0.407		mg/l	0.100	0.0293	1	03/22/22 14:48	03/22/22 20:52	EPA 3005A	1,6020B	SV
Thallium, Dissolved	0.00015	J	mg/l	0.00100	0.00014	1	03/22/22 14:48	03/22/22 20:52	EPA 3005A	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	03/22/22 14:48	03/22/22 20:52	EPA 3005A	1,6020B	SV
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	03/22/22 14:48	03/22/22 20:52	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

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): 01-02,05 Batch: WG1616401-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Barium, Total	ND		mg/l	0.00050	0.00017	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Calcium, Total	ND		mg/l	0.100	0.0394	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Chromium, Total	ND		mg/l	0.00100	0.00017	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Copper, Total	ND		mg/l	0.00100	0.00038	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Iron, Total	ND		mg/l	0.0500	0.0191	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Manganese, Total	ND		mg/l	0.00100	0.00044	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Nickel, Total	ND		mg/l	0.00200	0.00055	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Potassium, Total	ND		mg/l	0.100	0.0309	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Sodium, Total	ND		mg/l	0.100	0.0293	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Thallium, Total	0.00026	J	mg/l	0.00200	0.00014	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	03/17/22 15:18	03/23/22 16:02	1,6020B	SV

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): 01-02,05 Batch: WG1616403-1										
Mercury, Total	0.00016	J	mg/l	0.00020	0.00009	1	03/17/22 16:26	03/30/22 19:35	1,7470A	ZK

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-03,05 Batch: WG1617392-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	03/22/22 14:48	03/22/22 19:40	1,6020B	SV
Antimony, Dissolved	0.00056	J	mg/l	0.00400	0.00042	1	03/22/22 14:48	03/22/22 19:40	1,6020B	SV
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	03/22/22 14:48	03/22/22 19:40	1,6020B	SV
Barium, Dissolved	0.00025	J	mg/l	0.00050	0.00017	1	03/22/22 14:48	03/22/22 19:40	1,6020B	SV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	03/22/22 14:48	03/22/22 19:40	1,6020B	SV
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	03/22/22 14:48	03/22/22 19:40	1,6020B	SV
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	03/22/22 14:48	03/22/22 19:40	1,6020B	SV
Chromium, Dissolved	0.00030	J	mg/l	0.00100	0.00017	1	03/22/22 14:48	03/22/22 19:40	1,6020B	SV
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	03/22/22 14:48	03/22/22 19:40	1,6020B	SV
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	03/22/22 14:48	03/22/22 19:40	1,6020B	SV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	03/22/22 14:48	03/22/22 19:40	1,6020B	SV
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	03/22/22 14:48	03/22/22 19:40	1,6020B	SV
Manganese, Dissolved	0.00114	J	mg/l	0.00200	0.00044	1	03/22/22 14:48	03/22/22 19:40	1,6020B	SV
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	03/22/22 14:48	03/22/22 19:40	1,6020B	SV
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	03/22/22 14:48	03/22/22 19:40	1,6020B	SV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	03/22/22 14:48	03/22/22 19:40	1,6020B	SV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	03/22/22 14:48	03/22/22 19:40	1,6020B	SV
Sodium, Dissolved	0.0607	J	mg/l	0.100	0.0293	1	03/22/22 14:48	03/22/22 19:40	1,6020B	SV
Thallium, Dissolved	0.00025	J	mg/l	0.00100	0.00014	1	03/22/22 14:48	03/22/22 19:40	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	03/22/22 14:48	03/22/22 19:40	1,6020B	SV
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	03/22/22 14:48	03/22/22 19:40	1,6020B	SV

Prep Information

Digestion Method: EPA 3005A

Project Name: TOT2101 **Lab Number:** L2212979

Project Number: TOT2101 **Report Date:** 04/01/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-03,05 Batch: WG1617393-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	03/22/22 14:51	03/23/22 06:59	1,7470A	ZK

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-03,05 Batch: WG1618990-1										
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	03/23/22 15:40	03/23/22 20:37	1,6020B	SV

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212979

Report Date: 04/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02,05 Batch: WG1616401-2								
Aluminum, Total	105		-		80-120	-		
Antimony, Total	81		-		80-120	-		
Arsenic, Total	93		-		80-120	-		
Barium, Total	93		-		80-120	-		
Beryllium, Total	101		-		80-120	-		
Cadmium, Total	97		-		80-120	-		
Calcium, Total	89		-		80-120	-		
Chromium, Total	106		-		80-120	-		
Cobalt, Total	98		-		80-120	-		
Copper, Total	96		-		80-120	-		
Iron, Total	113		-		80-120	-		
Lead, Total	97		-		80-120	-		
Magnesium, Total	110		-		80-120	-		
Manganese, Total	103		-		80-120	-		
Nickel, Total	98		-		80-120	-		
Potassium, Total	110		-		80-120	-		
Selenium, Total	99		-		80-120	-		
Silver, Total	95		-		80-120	-		
Sodium, Total	108		-		80-120	-		
Thallium, Total	102		-		80-120	-		
Vanadium, Total	106		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02,05 Batch: WG1616401-2					
Zinc, Total	97	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-02,05 Batch: WG1616403-2					
Mercury, Total	116	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212979

Report Date: 04/01/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03,05 Batch: WG1617392-2					
Aluminum, Dissolved	96	-	80-120	-	
Antimony, Dissolved	81	-	80-120	-	
Arsenic, Dissolved	100	-	80-120	-	
Barium, Dissolved	91	-	80-120	-	
Beryllium, Dissolved	106	-	80-120	-	
Cadmium, Dissolved	104	-	80-120	-	
Calcium, Dissolved	88	-	80-120	-	
Chromium, Dissolved	103	-	80-120	-	
Cobalt, Dissolved	102	-	80-120	-	
Copper, Dissolved	100	-	80-120	-	
Lead, Dissolved	101	-	80-120	-	
Magnesium, Dissolved	108	-	80-120	-	
Manganese, Dissolved	101	-	80-120	-	
Nickel, Dissolved	106	-	80-120	-	
Potassium, Dissolved	113	-	80-120	-	
Selenium, Dissolved	100	-	80-120	-	
Silver, Dissolved	100	-	80-120	-	
Sodium, Dissolved	115	-	80-120	-	
Thallium, Dissolved	104	-	80-120	-	
Vanadium, Dissolved	105	-	80-120	-	
Zinc, Dissolved	101	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2212979

Report Date: 04/01/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03,05 Batch: WG1617393-2					
Mercury, Dissolved	93	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03,05 Batch: WG1618990-2					
Iron, Dissolved	96	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

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): 01-02,05 QC Batch ID: WG1616401-3 WG1616401-4 QC Sample: L2212899-02 Client ID: MS Sample												
Aluminum, Total	0.177	2	2.28	105		2.18	100		75-125	4		20
Antimony, Total	0.00069J	0.5	0.5274	105		0.5178	104		75-125	2		20
Arsenic, Total	0.06514	0.12	0.1930	106		0.1869	101		75-125	3		20
Barium, Total	0.2761	2	2.271	100		2.166	94		75-125	5		20
Beryllium, Total	ND	0.05	0.05065	101		0.04864	97		75-125	4		20
Cadmium, Total	0.00451	0.053	0.06026	105		0.05861	102		75-125	3		20
Calcium, Total	107.	10	149	**420**	Q	147	**400**	Q	75-125	1		20
Chromium, Total	0.00111	0.2	0.2076	103		0.2028	101		75-125	2		20
Cobalt, Total	0.00338	0.5	0.4918	98		0.4871	97		75-125	1		20
Copper, Total	0.01450	0.25	0.2588	98		0.2571	97		75-125	1		20
Iron, Total	71.1	1	91.7	**2060**	Q	90.4	**1930**	Q	75-125	1		20
Lead, Total	0.00737	0.53	0.5366	100		0.5202	97		75-125	3		20
Magnesium, Total	53.1	10	77.6	**245**	Q	76.4	**233**	Q	75-125	2		20
Manganese, Total	2.828	0.5	4.184	**271**	Q	4.012	**237**	Q	75-125	4		20
Nickel, Total	0.00663	0.5	0.5002	99		0.4995	98		75-125	0		20
Potassium, Total	2.99	10	14.3	113		14.3	113		75-125	0		20
Selenium, Total	ND	0.12	0.113	94		0.114	95		75-125	1		20
Silver, Total	ND	0.05	0.05020	100		0.04877	98		75-125	3		20
Sodium, Total	257.	10	297	**400**	Q	293	**360**	Q	75-125	1		20
Thallium, Total	0.00032J	0.12	0.1220	102		0.1172	98		75-125	4		20
Vanadium, Total	0.00314J	0.5	0.5248	105		0.5164	103		75-125	2		20

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

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): 01-02,05 QC Batch ID: WG1616401-3 WG1616401-4 QC Sample: L2212899-02 Client ID: MS Sample									
Zinc, Total	0.08963	0.5	0.5989	102	0.5790	98	75-125	3	20
Total Metals - Mansfield Lab Associated sample(s): 01-02,05 QC Batch ID: WG1616403-3 WG1616403-4 QC Sample: L2212899-02 Client ID: MS Sample									
Mercury, Total	0.00009J	0.005	0.00445	89	0.00457	92	75-125	3	20

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03,05 QC Batch ID: WG1617392-3 QC Sample: L2213695-20 Client ID: MS Sample										
Aluminum, Dissolved	0.0337	2	2.02	99		-	-	75-125	-	20
Antimony, Dissolved	0.00076J	0.5	0.4648	93		-	-	75-125	-	20
Arsenic, Dissolved	0.00051	0.12	0.1200	100		-	-	75-125	-	20
Barium, Dissolved	0.07894	2	1.883	90		-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.04801	96		-	-	75-125	-	20
Cadmium, Dissolved	0.00023	0.053	0.05476	103		-	-	75-125	-	20
Calcium, Dissolved	237.	10	258	**210**	Q	-	-	75-125	-	20
Chromium, Dissolved	0.00021J	0.2	0.2023	101		-	-	75-125	-	20
Cobalt, Dissolved	0.00506	0.5	0.5038	100		-	-	75-125	-	20
Copper, Dissolved	ND	0.25	0.2484	99		-	-	75-125	-	20
Lead, Dissolved	ND	0.53	0.5265	99		-	-	75-125	-	20
Magnesium, Dissolved	31.1	10	40.6	95		-	-	75-125	-	20
Manganese, Dissolved	1.703	0.5	2.325	124		-	-	75-125	-	20
Nickel, Dissolved	0.00732	0.5	0.5212	103		-	-	75-125	-	20
Potassium, Dissolved	21.0	10	32.0	110		-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.119	99		-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.05007	100		-	-	75-125	-	20
Sodium, Dissolved	264.	10	262	**0**	Q	-	-	75-125	-	20
Thallium, Dissolved	0.00038J	0.12	0.1228	102		-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.5117	102		-	-	75-125	-	20
Zinc, Dissolved	0.00894J	0.5	0.5069	101		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03,05 QC Batch ID: WG1617393-3 QC Sample: L2213695-07 Client ID: MS Sample										
Mercury, Dissolved	ND	0.005	0.00479	96		-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03,05 QC Batch ID: WG1618990-3 QC Sample: L2213470-01 Client ID: MS Sample										
Iron, Dissolved	53.1	1	50.6	**0**	Q	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03,05 QC Batch ID: WG1617392-4 QC Sample: L2213695-20 Client ID: DUP Sample						
Aluminum, Dissolved	0.0337	0.0318	mg/l	6		20
Antimony, Dissolved	0.00076J	0.00110J	mg/l	NC		20
Arsenic, Dissolved	0.00051	0.00053	mg/l	5		20
Barium, Dissolved	0.07894	0.07967	mg/l	1		20
Beryllium, Dissolved	ND	ND	mg/l	NC		20
Cadmium, Dissolved	0.00023	0.00023	mg/l	1		20
Calcium, Dissolved	237.	228	mg/l	4		20
Chromium, Dissolved	0.00021J	ND	mg/l	NC		20
Cobalt, Dissolved	0.00506	0.00499	mg/l	1		20
Copper, Dissolved	ND	ND	mg/l	NC		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Magnesium, Dissolved	31.1	29.1	mg/l	7		20
Manganese, Dissolved	1.703	1.658	mg/l	3		20
Nickel, Dissolved	0.00732	0.00731	mg/l	0		20
Potassium, Dissolved	21.0	19.8	mg/l	6		20
Selenium, Dissolved	ND	0.00177J	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Sodium, Dissolved	264.	250	mg/l	5		20
Thallium, Dissolved	0.00038J	0.00096J	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03,05 QC Batch ID: WG1617392-4 QC Sample: L2213695-20 Client ID: DUP Sample					
Vanadium, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	0.00894J	0.00869J	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03,05 QC Batch ID: WG1617393-4 QC Sample: L2213695-07 Client ID: DUP Sample					
Mercury, Dissolved	ND	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03,05 QC Batch ID: WG1618990-4 QC Sample: L2213470-01 Client ID: DUP Sample					
Iron, Dissolved	53.1	52.0	mg/l	2	20

Project Name: TOT2101
Project Number: TOT2101

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2212979
Report Date: 04/01/22

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02,05 QC Batch ID: WG1616401-6 QC Sample: L2212899-02 Client ID: DUP Sample						
Arsenic, Total	0.06514	0.06762	mg/l	4		20
Barium, Total	0.2761	0.2767	mg/l	0		20
Calcium, Total	107.	136.	mg/l	**27**	Q	20
Iron, Total	71.1	88.5	mg/l	**24**	Q	20
Magnesium, Total	53.1	64.1	mg/l	**21**	Q	20
Manganese, Total	2.828	3.555	mg/l	**26**	Q	20
Potassium, Total	2.99	3.47	mg/l	16		20
Sodium, Total	257.	279.	mg/l	9		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03,05 QC Batch ID: WG1618990-6 QC Sample: L2213470-01 Client ID: DUP Sample						
Iron, Dissolved	53.1	52.1	mg/l	2		20

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2212979-01A	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2212979-01B	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2212979-01C	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2212979-01D	Amber 120ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8082-LVI(365)
L2212979-01E	Amber 120ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8082-LVI(365)
L2212979-01F	Amber 120ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8081(7)
L2212979-01G	Amber 120ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8081(7)
L2212979-01H	Plastic 250ml unpreserved	B	7	7	2.0	Y	Absent		-
L2212979-01I	Plastic 250ml HNO3 preserved	B	<2	<2	2.0	Y	Absent		BA-6020T(180),TL-6020T(180),FE-6020T(180),SE-6020T(180),CR-6020T(180),CA-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AL-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L2212979-01J	Amber 250ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212979-01K	Amber 250ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212979-01L	Amber 250ml unpreserved	B	7	7	2.0	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212979-01M	Amber 250ml unpreserved	B	7	7	2.0	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212979-01N	Plastic 250ml unpreserved	A	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212979-01O	Plastic 250ml unpreserved	A	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2212979-01X	Plastic 120ml HNO3 preserved Filtrates	B	NA		2.0	Y	Absent		K-6020S(180),V-6020S(180),SE-6020S(180),CU-6020S(180),MN-6020S(180),ZN-6020S(180),CO-6020S(180),BE-6020S(180),MG-6020S(180),FE-6020S(180),CA-6020S(180),CR-6020S(180),NI-6020S(180),PB-6020S(180),BA-6020S(180),TL-6020S(180),NA-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),CD-6020S(180),HG-S(28),AL-6020S(180)
L2212979-02A	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2212979-02B	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2212979-02C	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2212979-02D	Amber 120ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8082-LVI(365)
L2212979-02E	Amber 120ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8082-LVI(365)
L2212979-02F	Amber 120ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8081(7)
L2212979-02G	Amber 120ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8081(7)
L2212979-02H	Plastic 250ml unpreserved	B	7	7	2.0	Y	Absent		-
L2212979-02I	Plastic 250ml HNO3 preserved	B	<2	<2	2.0	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),K-6020T(180),CR-6020T(180),NI-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),AG-6020T(180),AL-6020T(180),HG-T(28),CD-6020T(180),MG-6020T(180),CO-6020T(180)
L2212979-02J	Amber 250ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212979-02K	Amber 250ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212979-02L	Amber 250ml unpreserved	B	7	7	2.0	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212979-02M	Amber 250ml unpreserved	B	7	7	2.0	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212979-02N	Plastic 250ml unpreserved	A	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212979-02O	Plastic 250ml unpreserved	A	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2212979-02X	Plastic 120ml HNO3 preserved Filtrates	B	NA		2.0	Y	Absent		CU-6020S(180),V-6020S(180),K-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),PB-6020S(180),TL-6020S(180),NA-6020S(180),NI-6020S(180),AS-6020S(180),SB-6020S(180),AG-6020S(180),HG-S(28),AL-6020S(180),CD-6020S(180)
L2212979-03A	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2212979-03B	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2212979-03C	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2212979-03D	Amber 120ml unpreserved	B	NA	NA	2.0	Y	Absent		HOLD-8082(7)
L2212979-03E	Amber 120ml unpreserved	B	NA	NA	2.0	Y	Absent		HOLD-8082(7)
L2212979-03F	Amber 120ml unpreserved	B	NA	NA	2.0	Y	Absent		HOLD-8081(7)
L2212979-03G	Amber 120ml unpreserved	B	NA	NA	2.0	Y	Absent		HOLD-8081(7)
L2212979-03H	Plastic 250ml unpreserved	B	7	7	2.0	Y	Absent		-
L2212979-03I	Plastic 250ml HNO3 preserved	B	NA	NA	2.0	Y	Absent		HOLD-METAL-TOTAL(180)
L2212979-03J	Amber 250ml unpreserved	B	NA	NA	2.0	Y	Absent		HOLD-1,4DIOX(7)
L2212979-03K	Amber 250ml unpreserved	B	NA	NA	2.0	Y	Absent		HOLD-1,4DIOX(7)
L2212979-03L	Amber 250ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212979-03M	Amber 250ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212979-03X	Plastic 120ml HNO3 preserved Filtrates	B	NA		2.0	Y	Absent		V-6020S(180),SE-6020S(180),K-6020S(180),CU-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),ZN-6020S(180),MG-6020S(180),CA-6020S(180),FE-6020S(180),CR-6020S(180),BA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),NA-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2212979-04A	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2212979-04B	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2212979-05A	Vial HCl preserved	C	NA		3.1	Y	Absent		NYTCL-8260(14)
L2212979-05B	Vial HCl preserved	C	NA		3.1	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2212979-05C	Vial HCl preserved	C	NA		3.1	Y	Absent		NYTCL-8260(14)
L2212979-05D	Amber 120ml unpreserved	C	7	7	3.1	Y	Absent		NYTCL-8082-LVI(365)
L2212979-05E	Amber 120ml unpreserved	C	7	7	3.1	Y	Absent		NYTCL-8082-LVI(365)
L2212979-05F	Amber 120ml unpreserved	C	7	7	3.1	Y	Absent		NYTCL-8081(7)
L2212979-05G	Amber 120ml unpreserved	C	7	7	3.1	Y	Absent		NYTCL-8081(7)
L2212979-05H	Plastic 250ml unpreserved	C	7	7	3.1	Y	Absent		-
L2212979-05I	Plastic 250ml HNO3 preserved	C	<2	<2	3.1	Y	Absent		TL-6020T(180),BA-6020T(180),FE-6020T(180),SE-6020T(180),K-6020T(180),CR-6020T(180),CA-6020T(180),NI-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),AG-6020T(180),CD-6020T(180),MG-6020T(180),HG-T(28),AL-6020T(180),CO-6020T(180)
L2212979-05J	Amber 250ml unpreserved	C	7	7	3.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212979-05K	Amber 250ml unpreserved	C	7	7	3.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2212979-05L	Amber 250ml unpreserved	C	7	7	3.1	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212979-05M	Amber 250ml unpreserved	C	7	7	3.1	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2212979-05N	Plastic 250ml unpreserved	A	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212979-05O	Plastic 250ml unpreserved	A	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212979-05P	Plastic 250ml unpreserved	A	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212979-05X	Plastic 120ml HNO3 preserved Filtrates	C	NA		3.1	Y	Absent		K-6020S(180),V-6020S(180),CU-6020S(180),SE-6020S(180),MN-6020S(180),ZN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),FE-6020S(180),CA-6020S(180),CR-6020S(180),PB-6020S(180),NI-6020S(180),TL-6020S(180),NA-6020S(180),BA-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),CD-6020S(180),HG-S(28),AL-6020S(180)
L2212979-06A	Plastic 250ml unpreserved	A	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212979-06B	Plastic 250ml unpreserved	A	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212979-06C	Plastic 250ml unpreserved	A	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212979-06D	Plastic 250ml unpreserved	A	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2212979-06E	Plastic 250ml unpreserved	A	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)

Container Comments

L2212979-03D	Container received empty
L2212979-03E	Container received empty
L2212979-03F	Container received empty
L2212979-03G	Container received empty
L2212979-03I	Container received empty
L2212979-03J	Container received empty
L2212979-03K	Container received empty

*Values in parentheses indicate holding time in days

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2212979
Report Date: 04/01/22

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	TOT2101	**Lab Number:**	L2212979
Project Number:	TOT2101	**Report Date:**	04/01/22

GLOSSARY

Acronyms

DL - 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

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).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

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.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

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.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

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.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	TOT2101	**Lab Number:**	L2212979
Project Number:	TOT2101	**Report Date:**	04/01/22

Footnotes

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

Terms

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

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

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

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

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

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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.

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).

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

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:	TOT2101	**Lab Number:**	L2212979
Project Number:	TOT2101	**Report Date:**	04/01/22

Data Qualifiers

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.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	TOT2101	**Lab Number:**	L2212979
Project Number:	TOT2101	**Report Date:**	04/01/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

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 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
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: Chloride, 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, SM4500NO2-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: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **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 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

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: 3/12/22

ALPHA Job #: L2212979

Client Information
Client: PWGC
Address: 630 Johnson Ave Bohemia NY 11716
Phone: 631-589-6353
Fax:
Email: jennifer.l@pwgresse.com

Project Information
Project Name: TOT2101
Project Location: 737 4th ave, Brooklyn, NY
Project #: TOT2101
(Use Project name as Project #) ☐
Project Manager: Jennifer Lewis
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

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:
Lab to filter

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-VOC(8260)	TCL-SVOC(8270)	TCL Pest+PCB (8081/8082)	TAL metals, total +Hg (6010/7471)	1,4-Dioxane (8270-SIM)	PFAS (537.1 modified)	Total Bottle	Sample Specific Comments
12979-01	MW-7	3-11-22	1015	GW	WH	X	X	X	X	X	X		
-02	MW-86		1305										
-03	MW002		1355										
-04	TRIP Blank												
-05	Equipment Blank		1425										
-06	Field Blank		1425										

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
Wes Hess	3-11-22/1430	MSMP (mm)	3/11/22 19:30
MSMP (mm)	3/11/22 19:31		3/11/22 2100
	3/12/22 0045		3/12/22 0045

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:	L2213494
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Jennifer Lewis
Phone:	(631) 589-6353
Project Name:	TOT2101
Project Number:	TOT2101
Report Date:	04/05/22

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2213494
Report Date: 04/05/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2213494-01	MW002	WATER	737 4TH AVE, BROOKLYN, NY	03/15/22 10:30	03/15/22
L2213494-02	EQUIPMENT BLANK	WATER	737 4TH AVE, BROOKLYN, NY	03/15/22 15:45	03/15/22
L2213494-03	FIELD BLANK	WATER	737 4TH AVE, BROOKLYN, NY	03/15/22 11:15	03/15/22

Project Name:	TOT2101	**Lab Number:**	L2213494
Project Number:	TOT2101	**Report Date:**	04/05/22

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: TOT2101 **Lab Number:** L2213494
Project Number: TOT2101 **Report Date:** 04/05/22

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.

Perfluorinated Alkyl Acids by Isotope Dilution

L2213494-01: The sample was centrifuged and decanted prior to extraction due to sample matrix.

L2213494-01: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

Pesticides

L2213494-01: The sample has elevated detection limits due to limited sample volume available for 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: Cristin Walker

Title: Technical Director/Representative Date: 04/05/22

ORGANICS

SEMIVOLATILES

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

SAMPLE RESULTS

Lab ID: L2213494-01
Client ID: MW002
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/15/22 10:30
Date Received: 03/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/18/22 04:03
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 09:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	271.		ng/l	144	32.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	45		15-110

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

SAMPLE RESULTS

Lab ID: L2213494-01
Client ID: MW002
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/15/22 10:30
Date Received: 03/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/29/22 17:03
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 03/28/22 12:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	38.8		ng/l	1.98	0.404	1
Perfluoropentanoic Acid (PFPeA)	40.4		ng/l	1.98	0.392	1
Perfluorobutanesulfonic Acid (PFBS)	12.9		ng/l	1.98	0.235	1
Perfluorohexanoic Acid (PFHxA)	35.3		ng/l	1.98	0.324	1
Perfluoroheptanoic Acid (PFHpA)	24.0		ng/l	1.98	0.223	1
Perfluorohexanesulfonic Acid (PFHxS)	9.77	F	ng/l	1.98	0.372	1
Perfluorooctanoic Acid (PFOA)	94.4		ng/l	1.98	0.233	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	3.81		ng/l	1.98	1.32	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.98	0.681	1
Perfluorononanoic Acid (PFNA)	3.92		ng/l	1.98	0.309	1
Perfluorooctanesulfonic Acid (PFOS)	16.9		ng/l	1.98	0.499	1
Perfluorodecanoic Acid (PFDA)	7.31		ng/l	1.98	0.301	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.98	1.20	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.98	0.641	1
Perfluoroundecanoic Acid (PFUnA)	0.392	JF	ng/l	1.98	0.257	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.98	0.970	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.98	0.574	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.98	0.795	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.98	0.368	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.98	0.324	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.98	0.245	1
PFOA/PFOS, Total	111		ng/l	1.98	0.233	1

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

SAMPLE RESULTS

Lab ID: L2213494-01 Date Collected: 03/15/22 10:30

Client ID: MW002 Date Received: 03/15/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	105		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	65		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	108		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	73		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	88		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	117		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	118		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**388**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	139		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	117		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	107		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**433**	Q	10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**122**	Q	24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	119		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	30		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	101		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	121		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	105		22-136

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

SAMPLE RESULTS

Lab ID: L2213494-02
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/15/22 15:45
Date Received: 03/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/18/22 04:32
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 09:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	32.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	46		15-110

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

SAMPLE RESULTS

Lab ID: L2213494-02
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/15/22 15:45
Date Received: 03/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/29/22 17:20
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 03/28/22 12:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.90	0.386	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.90	0.375	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.90	0.226	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.90	0.311	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.90	0.213	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.90	0.356	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.90	0.224	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.90	1.26	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.90	0.652	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.90	0.296	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.90	0.478	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.90	0.288	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.90	1.15	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.90	0.614	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.90	0.246	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.90	0.928	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.90	0.550	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.90	0.762	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.90	0.352	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.90	0.310	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.90	0.235	1
PFOA/PFOS, Total	ND		ng/l	1.90	0.224	1

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

SAMPLE RESULTS

Lab ID: L2213494-02 Date Collected: 03/15/22 15:45

Client ID: EQUIPMENT BLANK Date Received: 03/15/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	106		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	112		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	114		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	98		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	104		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	119		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	112		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	140		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	117		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	110		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	109		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	133		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	92		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	114		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	58		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	100		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	104		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	94		22-136

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

SAMPLE RESULTS

Lab ID: L2213494-03
Client ID: FIELD BLANK
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/15/22 11:15
Date Received: 03/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/29/22 17:36
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 03/28/22 12:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.88	0.383	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.88	0.372	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.88	0.223	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.88	0.308	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.88	0.211	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.88	0.353	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.88	0.222	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.88	1.25	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.88	0.646	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.88	0.293	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.88	0.473	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.88	0.285	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.88	1.14	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.88	0.608	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.88	0.244	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.88	0.920	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.88	0.544	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.88	0.755	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.88	0.349	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.88	0.307	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.88	0.233	1
PFOA/PFOS, Total	ND		ng/l	1.88	0.222	1

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

SAMPLE RESULTS

Lab ID: L2213494-03 Date Collected: 03/15/22 11:15

Client ID: FIELD BLANK Date Received: 03/15/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	108		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	118		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	115		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	98		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	100		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	117		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	111		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	137		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	110		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	113		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	112		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	146		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	88		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	116		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	60		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	102		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	106		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	97		22-136

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 03/17/22 18:54
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 03/17/22 09:00

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 01-02 Batch: WG1616721-1					
1,4-Dioxane	ND		ng/l	150	33.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	49		15-110

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/29/22 16:30
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 03/28/22 12:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-03 Batch: WG1620487-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/29/22 16:30
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 03/28/22 12:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-03 Batch: WG1620487-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	105		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	114		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	113		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	97		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	102		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	119		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	109		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	146		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	111		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	110		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	134		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	93		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	113		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	53		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	106		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	104		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	97		22-136

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2213494

Report Date: 04/05/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab	Associated sample(s): 01-02		Batch: WG1616721-2 WG1616721-3					
1,4-Dioxane	121		120		40-140	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	46		46		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2213494

Report Date: 04/05/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 Batch: WG1620487-2								
Perfluorobutanoic Acid (PFBA)	103		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	102		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	104		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	103		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	104		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	118		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	96		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	115		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	112		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	102		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	106		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	109		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	132		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	103		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	96		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	114		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	100		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	111		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	108		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	122		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	102		-		59-182	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 Batch: WG1620487-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	108				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	113				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	105				70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	99				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	102				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	107				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	112				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	138				14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	109				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	107				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	110				10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	101				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	117				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	60				10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	101				27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	109				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	101				22-136

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2213494
Report Date: 04/05/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1620487-3 QC Sample: L2214352-01 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	38.2	39.6	104		-	-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	ND	38.2	39.4	103		-	-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	34	35.4	104		-	-		65-157	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	35.9	38.6	108		-	-		37-219	-		30
Perfluorohexanoic Acid (PFHxA)	ND	38.2	39.8	104		-	-		69-168	-		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	36	36.4	101		-	-		52-156	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	38.2	39.7	104		-	-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	34.9	38.7	111		-	-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	ND	38.2	37.5	98		-	-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	36.4	42.3	116		-	-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	36.5	38.3	105		-	-		61-179	-		30
Perfluorononanoic Acid (PFNA)	ND	38.2	37.0	97		-	-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	ND	35.5	35.7	101		-	-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	ND	38.2	38.9	102		-	-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	36.7	48.4	132		-	-		56-173	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	36.8	40.0	109		-	-		48-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	38.2	37.0	97		-	-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	38.2	36.7	96		-	-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	36.9	41.6	113		-	-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	ND	38.2	37.8	99		-	-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	38.2	39.7	104		-	-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	ND	38.2	41.5	109		-	-		67-153	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2213494
Report Date: 04/05/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1620487-3 QC Sample: L2214352-01 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	38.2	46.9	123		-	-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	38.2	41.8	109		-	-		59-182	-		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	373	443	119		-	-		57-162	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	36.2	33.1	92		-	-		69-143	-		30
Perfluorohexadecanoic Acid (PFHxDA)	ND	38.2	39.2	103		-	-		40-167	-		30
Perfluorooctadecanoic Acid (PFODA)	ND	38.2	6.02	16		-	-		10-119	-		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	85				10-162
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	77				12-142
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	93				14-147
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	79				10-165
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	87				27-126
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	86				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107				55-137
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	102				62-124
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	77				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	83				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	117				71-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	101				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	95				22-136
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	89				10-206

Matrix Spike Analysis

Batch Quality Control

Project Name: TOT2101 ***Lab Number:*** L2213494

Project Number: TOT2101 ***Report Date:*** 04/05/22

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1620487-3 QC Sample: L2214352-01 Client ID: MS Sample												

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
Perfluoro[13C4]Butanoic Acid (MPFBA)	85				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	104				62-163
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	37				10-112
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108				69-131
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93				62-129
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99				59-139
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109				70-131

Lab Duplicate Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2213494
Report Date: 04/05/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1620487-4 QC Sample: L2214352-02 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/l	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/l	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/l	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/l	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/l	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/l	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/l	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2213494
Report Date: 04/05/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1620487-4 QC Sample: L2214352-02 Client ID: DUP Sample						
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ND	ng/l	NC		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ND	ng/l	NC		30
Perfluorohexadecanoic Acid (PFHxDA)	ND	ND	ng/l	NC		30
Perfluorooctadecanoic Acid (PFODA)	ND	ND	ng/l	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	79		85		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96		104		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	111		106		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	67		63		12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	69		76		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	75		83		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	113		116		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	90		93		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	85		79		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	93		100		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		106		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	96		100		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	87		80		10-162

Lab Duplicate Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2213494
Report Date: 04/05/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1620487-4 QC Sample: L2214352-02 Client ID: DUP Sample

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	63		73		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	110		103		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	21		33		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	73		86		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	97		92		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	92		91		22-136
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	71		77		10-165
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	81		76		10-206

PCBS

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

SAMPLE RESULTS

Lab ID: L2213494-01
Client ID: MW002
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/15/22 10:30
Date Received: 03/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 03/30/22 13:46
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 03/29/22 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/29/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/29/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	0.066	J	ug/l	0.071	0.061	1	A
Aroclor 1260	0.064	J	ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	0.131	J	ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	34		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	35		30-150	B

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

SAMPLE RESULTS

Lab ID: L2213494-02
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/15/22 15:45
Date Received: 03/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 03/30/22 13:54
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 03/29/22 11:08
Cleanup Method: EPA 3665A
Cleanup Date: 03/29/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/29/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/30/22 10:39
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 03/29/22 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/29/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/29/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1621002-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	83		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2213494

Report Date: 04/05/22

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: WG1621002-2 WG1621002-3									
Aroclor 1016	85		80		40-140	7		50	A
Aroclor 1260	83		80		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		64		30-150	A
Decachlorobiphenyl	95		94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		61		30-150	B
Decachlorobiphenyl	87		84		30-150	B

PESTICIDES

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

SAMPLE RESULTS

Lab ID: L2213494-01
Client ID: MW002
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/15/22 10:30
Date Received: 03/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 03/21/22 12:59
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 03/20/22 07:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.019	0.004	1	A
Lindane	ND		ug/l	0.019	0.004	1	A
Alpha-BHC	ND		ug/l	0.019	0.004	1	A
Beta-BHC	ND		ug/l	0.019	0.005	1	A
Heptachlor	ND		ug/l	0.019	0.003	1	A
Aldrin	ND		ug/l	0.019	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.019	0.004	1	A
Endrin	ND		ug/l	0.039	0.004	1	A
Endrin aldehyde	ND		ug/l	0.039	0.008	1	A
Endrin ketone	ND		ug/l	0.039	0.005	1	A
Dieldrin	ND		ug/l	0.039	0.004	1	A
4,4'-DDE	ND		ug/l	0.039	0.004	1	A
4,4'-DDD	ND		ug/l	0.039	0.004	1	A
4,4'-DDT	ND		ug/l	0.039	0.004	1	A
Endosulfan I	ND		ug/l	0.019	0.003	1	A
Endosulfan II	ND		ug/l	0.039	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.039	0.005	1	A
Methoxychlor	ND		ug/l	0.192	0.007	1	A
Toxaphene	ND		ug/l	0.192	0.060	1	A
cis-Chlordane	ND		ug/l	0.019	0.006	1	A
trans-Chlordane	ND		ug/l	0.019	0.006	1	A
Chlordane	ND		ug/l	0.192	0.045	1	A

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

SAMPLE RESULTS

Lab ID: L2213494-01 Date Collected: 03/15/22 10:30

Client ID: MW002 Date Received: 03/15/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	42		30-150	A
Decachlorobiphenyl	**25**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	30		30-150	B

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

SAMPLE RESULTS

Lab ID: L2213494-02
Client ID: EQUIPMENT BLANK
Sample Location: 737 4TH AVE, BROOKLYN, NY

Date Collected: 03/15/22 15:45
Date Received: 03/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 03/21/22 13:12
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 03/20/22 07:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

SAMPLE RESULTS

Lab ID: L2213494-02 Date Collected: 03/15/22 15:45

Client ID: EQUIPMENT BLANK Date Received: 03/15/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	41		30-150	A
Decachlorobiphenyl	33		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	40		30-150	B

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/21/22 14:17
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 03/19/22 17:37

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1617626-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/21/22 14:17
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 03/19/22 17:37

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1617626-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	64		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2213494

Report Date: 04/05/22

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: WG1617626-2 WG1617626-3									
Delta-BHC	63		60		30-150	6		20	A
Lindane	62		58		30-150	7		20	A
Alpha-BHC	65		61		30-150	7		20	A
Beta-BHC	73		68		30-150	6		20	A
Heptachlor	64		59		30-150	8		20	A
Aldrin	68		62		30-150	8		20	A
Heptachlor epoxide	61		57		30-150	6		20	A
Endrin	78		75		30-150	5		20	A
Endrin aldehyde	51		50		30-150	2		20	A
Endrin ketone	94		92		30-150	2		20	A
Dieldrin	66		63		30-150	5		20	A
4,4'-DDE	62		59		30-150	6		20	A
4,4'-DDD	75		71		30-150	5		20	A
4,4'-DDT	75		72		30-150	4		20	A
Endosulfan I	61		58		30-150	5		20	A
Endosulfan II	70		68		30-150	4		20	A
Endosulfan sulfate	83		80		30-150	3		20	A
Methoxychlor	100		96		30-150	4		20	A
cis-Chlordane	70		67		30-150	5		20	A
trans-Chlordane	79		74		30-150	7		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

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: WG1617626-2 WG1617626-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		65		30-150	A
Decachlorobiphenyl	81		82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		53		30-150	B
Decachlorobiphenyl	75		76		30-150	B

METALS

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

SAMPLE RESULTS

Lab ID: L2213494-01 Date Collected: 03/15/22 10:30

Client ID: MW002 Date Received: 03/15/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	50.9		mg/l	0.0100	0.00327	1	03/22/22 15:56	03/23/22 15:00	EPA 3005A	1,6020B	SV
Antimony, Total	0.00070	J	mg/l	0.00400	0.00042	1	03/22/22 15:56	03/23/22 15:00	EPA 3005A	1,6020B	SV
Arsenic, Total	0.01455		mg/l	0.00050	0.00016	1	03/22/22 15:56	03/23/22 15:00	EPA 3005A	1,6020B	SV
Barium, Total	1.066		mg/l	0.00050	0.00017	1	03/22/22 15:56	03/23/22 15:00	EPA 3005A	1,6020B	SV
Beryllium, Total	0.00884		mg/l	0.00050	0.00010	1	03/22/22 15:56	03/23/22 15:00	EPA 3005A	1,6020B	SV
Cadmium, Total	0.00609		mg/l	0.00020	0.00005	1	03/22/22 15:56	03/23/22 15:00	EPA 3005A	1,6020B	SV
Calcium, Total	68.7		mg/l	0.100	0.0394	1	03/22/22 15:56	03/23/22 15:00	EPA 3005A	1,6020B	SV
Chromium, Total	0.3436		mg/l	0.00100	0.00017	1	03/22/22 15:56	03/23/22 15:00	EPA 3005A	1,6020B	SV
Cobalt, Total	0.08897		mg/l	0.00050	0.00016	1	03/22/22 15:56	03/23/22 15:00	EPA 3005A	1,6020B	SV
Copper, Total	0.3577		mg/l	0.00100	0.00038	1	03/22/22 15:56	03/23/22 15:00	EPA 3005A	1,6020B	SV
Iron, Total	112.		mg/l	0.0500	0.0191	1	03/22/22 15:56	03/23/22 15:00	EPA 3005A	1,6020B	SV
Lead, Total	0.7347		mg/l	0.00100	0.00034	1	03/22/22 15:56	03/23/22 15:00	EPA 3005A	1,6020B	SV
Magnesium, Total	50.1		mg/l	0.0700	0.0242	1	03/22/22 15:56	03/23/22 15:00	EPA 3005A	1,6020B	SV
Manganese, Total	14.62		mg/l	0.00500	0.00220	5	03/22/22 15:56	03/23/22 16:07	EPA 3005A	1,6020B	SV
Mercury, Total	0.00149		mg/l	0.00020	0.00009	1	03/22/22 16:55	04/01/22 13:12	EPA 7470A	1,7470A	DMB
Nickel, Total	0.2810		mg/l	0.00200	0.00055	1	03/22/22 15:56	03/23/22 15:00	EPA 3005A	1,6020B	SV
Potassium, Total	38.8		mg/l	0.100	0.0309	1	03/22/22 15:56	03/23/22 15:00	EPA 3005A	1,6020B	SV
Selenium, Total	0.0175		mg/l	0.00500	0.00173	1	03/22/22 15:56	03/23/22 15:00	EPA 3005A	1,6020B	SV
Silver, Total	0.00052		mg/l	0.00040	0.00016	1	03/22/22 15:56	03/23/22 15:00	EPA 3005A	1,6020B	SV
Sodium, Total	90.5		mg/l	0.100	0.0293	1	03/22/22 15:56	03/23/22 15:00	EPA 3005A	1,6020B	SV
Thallium, Total	0.00082	J	mg/l	0.00100	0.00014	1	03/22/22 15:56	03/23/22 15:00	EPA 3005A	1,6020B	SV
Vanadium, Total	0.1116		mg/l	0.00500	0.00157	1	03/22/22 15:56	03/23/22 15:00	EPA 3005A	1,6020B	SV
Zinc, Total	1.104		mg/l	0.01000	0.00341	1	03/22/22 15:56	03/23/22 15:00	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

SAMPLE RESULTS

Lab ID: L2213494-02 Date Collected: 03/15/22 15:45

Client ID: EQUIPMENT BLANK Date Received: 03/15/22

Sample Location: 737 4TH AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.00850	J	mg/l	0.0100	0.00327	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV
Barium, Total	0.00177		mg/l	0.00050	0.00017	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV
Calcium, Total	ND		mg/l	0.100	0.0394	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV
Chromium, Total	0.00022	J	mg/l	0.00100	0.00017	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV
Copper, Total	ND		mg/l	0.00100	0.00038	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV
Iron, Total	ND		mg/l	0.0500	0.0191	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV
Manganese, Total	ND		mg/l	0.00100	0.00044	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/22/22 16:55	04/01/22 13:22	EPA 7470A	1,7470A	DMB
Nickel, Total	ND		mg/l	0.00200	0.00055	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV
Potassium, Total	ND		mg/l	0.100	0.0309	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV
Sodium, Total	0.225		mg/l	0.100	0.0293	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	03/22/22 15:56	03/23/22 15:31	EPA 3005A	1,6020B	SV

Project Name: TOT2101 **Lab Number:** L2213494

Project Number: TOT2101 **Report Date:** 04/05/22

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: WG1618353-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV
Barium, Total	ND		mg/l	0.00050	0.00017	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV
Calcium, Total	ND		mg/l	0.100	0.0394	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV
Chromium, Total	ND		mg/l	0.00100	0.00017	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV
Copper, Total	ND		mg/l	0.00100	0.00038	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV
Iron, Total	ND		mg/l	0.0500	0.0191	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV
Manganese, Total	ND		mg/l	0.00100	0.00044	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV
Nickel, Total	ND		mg/l	0.00200	0.00055	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV
Potassium, Total	ND		mg/l	0.100	0.0309	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV
Sodium, Total	ND		mg/l	0.100	0.0293	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	03/22/22 15:56	03/23/22 14:03	1,6020B	SV

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: WG1618357-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/22/22 16:55	04/01/22 13:06	1,7470A	DMB

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2213494
Report Date: 04/05/22

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2213494

Report Date: 04/05/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1618353-2								
Aluminum, Total	100		-		80-120	-		
Antimony, Total	91		-		80-120	-		
Arsenic, Total	97		-		80-120	-		
Barium, Total	94		-		80-120	-		
Beryllium, Total	94		-		80-120	-		
Cadmium, Total	94		-		80-120	-		
Calcium, Total	96		-		80-120	-		
Chromium, Total	100		-		80-120	-		
Cobalt, Total	95		-		80-120	-		
Copper, Total	97		-		80-120	-		
Iron, Total	100		-		80-120	-		
Lead, Total	98		-		80-120	-		
Magnesium, Total	102		-		80-120	-		
Manganese, Total	100		-		80-120	-		
Nickel, Total	98		-		80-120	-		
Potassium, Total	102		-		80-120	-		
Selenium, Total	93		-		80-120	-		
Silver, Total	93		-		80-120	-		
Sodium, Total	94		-		80-120	-		
Thallium, Total	84		-		80-120	-		
Vanadium, Total	99		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: TOT2101

Project Number: TOT2101

Lab Number: L2213494

Report Date: 04/05/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1618353-2					
Zinc, Total	95	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1618357-2					
Mercury, Total	102	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2213494
Report Date: 04/05/22

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: WG1618353-3 QC Sample: L2213046-01 Client ID: MS Sample												
Aluminum, Total	0.007J	2	1.90	95		-	-		75-125	-		20
Antimony, Total	0.0007J	0.5	0.4748	95		-	-		75-125	-		20
Arsenic, Total	0.0002J	0.12	0.1117	93		-	-		75-125	-		20
Barium, Total	0.0514	2	1.833	89		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.04615	92		-	-		75-125	-		20
Cadmium, Total	0.0001J	0.053	0.04749	90		-	-		75-125	-		20
Calcium, Total	103	10	108	**50**	Q	-	-		75-125	-		20
Chromium, Total	0.0008J	0.2	0.1847	92		-	-		75-125	-		20
Cobalt, Total	0.0006	0.5	0.4454	89		-	-		75-125	-		20
Copper, Total	0.00247	0.25	0.2331	92		-	-		75-125	-		20
Iron, Total	ND	1	0.926	93		-	-		75-125	-		20
Lead, Total	ND	0.53	0.4488	85		-	-		75-125	-		20
Magnesium, Total	11.7	10	20.9	92		-	-		75-125	-		20
Manganese, Total	0.3289	0.5	0.7971	94		-	-		75-125	-		20
Nickel, Total	0.0016J	0.5	0.4550	91		-	-		75-125	-		20
Potassium, Total	6.15	10	15.5	94		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.110	92		-	-		75-125	-		20
Silver, Total	ND	0.05	0.04408	88		-	-		75-125	-		20
Sodium, Total	213	10	223	100		-	-		75-125	-		20
Thallium, Total	ND	0.12	0.09430	78		-	-		75-125	-		20
Vanadium, Total	ND	0.5	0.4688	94		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2213494
Report Date: 04/05/22

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: WG1618353-3 QC Sample: L2213046-01 Client ID: MS Sample									
Zinc, Total	0.00795J	0.5	0.4564	91	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1618357-3 QC Sample: L2213494-01 Client ID: MW002									
Mercury, Total	0.00149	0.005	0.00637	98	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2213494
Report Date: 04/05/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1618353-4 QC Sample: L2213046-01 Client ID: DUP Sample						
Copper, Total	0.00247	0.00260	mg/l	5		20
Lead, Total	ND	ND	mg/l	NC		20
Selenium, Total	ND	ND	mg/l	NC		20
Zinc, Total	0.00795J	0.00785J	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1618357-4 QC Sample: L2213494-01 Client ID: MW002						
Mercury, Total	0.00149	0.00159	mg/l	6		20

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2213494
Report Date: 04/05/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2213494-01A	Amber 120ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8082-LVI(365)
L2213494-01B	Amber 120ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8082-LVI(365)
L2213494-01C	Amber 120ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8081(7)
L2213494-01D	Amber 120ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8081(7)
L2213494-01E	Plastic 250ml HNO3 preserved	A	<2	<2	3.6	Y	Absent		TL-6020T(180),SE-6020T(180),BA-6020T(180),FE-6020T(180),CR-6020T(180),NI-6020T(180),K-6020T(180),CA-6020T(180),ZN-6020T(180),NA-6020T(180),CU-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),AG-6020T(180),AL-6020T(180),CO-6020T(180)
L2213494-01F	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2213494-01G	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2213494-01H	Plastic 250ml unpreserved	B	NA		5.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2213494-01I	Plastic 250ml unpreserved	B	NA		5.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2213494-02A	Amber 120ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8082-LVI(365)
L2213494-02B	Amber 120ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8082-LVI(365)
L2213494-02C	Amber 120ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8081(7)
L2213494-02D	Amber 120ml unpreserved	A	7	7	3.6	Y	Absent		NYTCL-8081(7)
L2213494-02E	Plastic 250ml HNO3 preserved	A	<2	<2	3.6	Y	Absent		FE-6020T(180),TL-6020T(180),SE-6020T(180),BA-6020T(180),NI-6020T(180),CR-6020T(180),CA-6020T(180),K-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),HG-T(28),CD-6020T(180),AG-6020T(180),AL-6020T(180),MG-6020T(180),CO-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: TOT2101
Project Number: TOT2101

Lab Number: L2213494
Report Date: 04/05/22

Container Information

Container ID	*Container Type*	*Cooler*	*Initial pH*	*Final pH*	*Temp deg C*	*Pres*	*Seal*	*Frozen Date/Time*	*Analysis(*)*
L2213494-02F	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2213494-02G	Amber 250ml unpreserved	A	7	7	3.6	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2213494-02H	Plastic 250ml unpreserved	B	NA		5.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2213494-03A	Plastic 250ml unpreserved	B	NA		5.0	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: TOT2101
Project Number: TOT2101
Lab Number: L2213494
Report Date: 04/05/22

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	TOT2101	**Lab Number:**	L2213494
Project Number:	TOT2101	**Report Date:**	04/05/22

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	TOT2101	**Lab Number:**	L2213494
Project Number:	TOT2101	**Report Date:**	04/05/22

Footnotes

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

Terms

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

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

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

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

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

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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.

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).

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

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:	TOT2101	**Lab Number:**	L2213494
Project Number:	TOT2101	**Report Date:**	04/05/22

Data Qualifiers

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.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	TOT2101	**Lab Number:**	L2213494
Project Number:	TOT2101	**Report Date:**	04/05/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

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 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
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: Chloride, 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, SM4500NO2-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: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **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 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, 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: 3/15/22

ALPHA Job #: L2213494

Client Information

Client: PWGC
Address: 630 Johnson Ave
Bohemia, NY 11716
Phone: 631-589-6353
Fax:
Email: JenniferL@pwgresser.com

Project Information

Project Name: TOT 3101
Project Location: 737 4th Ave, Brooklyn, NY
Project #: TOT 3101
(Use Project name as Project #) ☐
Project Manager: Jennifer Lewis
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

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 Pest/PCBs (8081B, 8082A)	TAL Metals Total (6010B/7471)	1,4 Dioxane 8270C-SIM	PFAS 537.1, Modified	Sample Specific Comments	Total Bottle
13494-01	MW002	3/15/22	1030	GW	WH	X	X	X	X		
-02	Equipment Blank	↓	1515	W	↓	X	X	X	X		
-03	Field Blank	↓	1115	↓	↓				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
Michael Pecoraro	3/15/22 1630	[illegible]	3/15 1630
[illegible]	3/15 1900	[illegible]	3/15 1930
[illegible]	3/15	[illegible]	3/15 2100
[illegible]	3/15 23:20	[illegible]	3/15/22 2300

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

GROUNDWATER MONITORING WELL

CONSTRUCTION AND DEVELOPMENT LOGS

P.W. GROSSER CONSULTING, INC.
P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, P.C.
PHONE: 631.589.6353
PWGROSSER.COM
630 JOHNSON AVENUE, STE 7
BOHEMIA, NY 11716
LONG ISLAND • MANHATTAN • SARATOGA SPRINGS • SYRACUSE • SEATTLE • SHELTON

Groundwater Monitoring Well Development Log

SITE INFORMATION

Site/Project Number:	TOT2101 - 737 4th Avenue, Brooklyn, NY		
Development Point:	PWGC-MW002	**Developed By:**	PWGC
Date Developed:	3/2/2022	**Well Diameter (inches):**	2
Depth to Water (feet):	25.95	**Total Well Depth (feet):**	27.85

DEVELOPMENT INFORMATION

Purge Method:	Submersible Pump	**Purge Time (min):**	12
Purge Rate (gpm):	see below	**Gallons Purged:**	1

DEVELOPMENT PARAMETERS

Interval	Time	Gallons Purged	pH	Cond. (µS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)	ORP mV	Temp (ºC)
1	0733	0.00	6.35	0.396	max	NM	NM	NM	16.52
2	0736	0.25	7.04	0.442	max	NM	NM	NM	18.45
3	0739	0.50	7.07	0.486	max	NM	NM	NM	17.48
4	0742	0.75	7.34	0.511	max	NM	NM	NM	17.08
5	0745	1.00	7.3	0.511	max	NM	NM	NM	16.91

The well continously ran dry during the development process; after twelve minutes and multiple re-starts, further development was abandoned.

NM - Not Measured

APPENDIX E

GROUNDWATER MONITORING WELL SAMPLING LOGS

P.W. GROSSER CONSULTING, INC.
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LONG ISLAND • MANHATTAN • SARATOGA SPRINGS • SYRACUSE • SEATTLE • SHELTON

P.W. GROSSER CONSULTING

Well Sampling Log

Well Designation:	PWGC-MW002	**Sampled By:**	WH
Site Address:	737 4th Ave	**Project Manager:**	JL
Project Name:	TOT2101 RI	**Project Number:**	TOT2101

Relative TOC Elevation (ft):	NM	**Well Use:**	Monitoring/Observation
Depth to Product (ft):	No Product	**Product Elevation (ft):**	NM
Depth to Water (ft):	25.95	**Groundwater Elevation (ft):**	NM
Depth to Bottom (ft):	27.85	**Bottom Elevation (ft):**	NM
Height of Water Column (ft):	1.90	**Well Diameter (in):**	2
Standing Water Volume (gal):	0.30	**Calculated Purge Volume (gal):**	N/A
Sample Date:	3/11/2022, 3/15/2022	**Begin Purge Time:**	12:43
Sample Time:	10:15	**Complete Purge Time:**	13:05
Purge Method:	Bailer	**Sample Method:**	Bailer
Purge Rate (mL/min):	N/A	**Purge Time (hrs):**	N/A
Sample Appearance:	Turbid	**Odors Observed:**	No odor
Analytical Laboratory:	Alpha	**Notes:**	Flow not achieved using Waterra, Sample collected using bailers. Unable to collect field indicator parameters
Date Shipped:	3/11/2022, 3/15/2022		
Analyses Requested:			
VOCs, SVOCs, Metals (total/dissolved), Pesticides, PCBs, 1,4-Dioxane, PFAS			

Field Indicator Parameters

Time	Temp. (°C)	pH	Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turb. (NTU)			

P.W. GROSSER CONSULTING

Well Sampling Log

Well Designation:	MW-3	**Sampled By:**	MPP
Site Address:	737 4th Ave	**Project Manager:**	JL
Project Name:	TOT2101 RI	**Project Number:**	TOT2101

Relative TOC Elevation (ft):	NM	**Well Use:**	Monitoring/Observation
Depth to Product (ft):	No Product	**Product Elevation (ft):**	NM
Depth to Water (ft):	22.74	**Groundwater Elevation (ft):**	NM
Depth to Bottom (ft):	35.44	**Bottom Elevation (ft):**	NM
Height of Water Column (ft):	12.70	**Well Diameter (in):**	4
Standing Water Volume (gal):	8.26	**Calculated Purge Volume (gal):**	1.06
Sample Date:	3/10/2022	**Begin Purge Time:**	16:10
Sample Time:	16:40	**Complete Purge Time:**	16:30
Purge Method:	Low-Flow	**Sample Method:**	Waterra
Purge Rate (mL/min):	200	**Purge Time (hrs):**	0:20
Sample Appearance:	Slightly Turbid	**Odors Observed:**	No odor
Analytical Laboratory:	Alpha	**Notes:**	PID: 0.0 ppm
Date Shipped:	3/11/2022		

Analyses Requested:

VOCs, SVOCs, Metals (total/dissolved), Pesticides, PCBs, 1,4-Dioxane, PFAS

Field Indicator Parameters

Time	Temp. (°C)	pH	Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turb. (NTU)			
16:10	12.95	4.50	4.48	52	0.00	9.4			
16:15	12.45	6.41	4.96	44	0.00	0.9			
16:20	13.28	6.85	4.23	51	0.00	62.7			
16:25	13.00	6.87	4.23	54	0.00	57.8			
16:30	12.48	6.81	4.26	63	0.00	56.1			

P.W. GROSSER CONSULTING

Well Sampling Log

Well Designation:	MW-6	**Sampled By:**	MPP
Site Address:	737 4th Ave	**Project Manager:**	JL
Project Name:	TOT2101 RI	**Project Number:**	TOT2101

Relative TOC Elevation (ft):	NM	**Well Use:**	Monitoring/Observation
Depth to Product (ft):	No Product	**Product Elevation (ft):**	NM
Depth to Water (ft):	20.56	**Groundwater Elevation (ft):**	NM
Depth to Bottom (ft):	33.75	**Bottom Elevation (ft):**	NM
Height of Water Column (ft):	13.19	**Well Diameter (in):**	4
Standing Water Volume (gal):	8.57	**Calculated Purge Volume (gal):**	1.32
Sample Date:	3/10/2022	**Begin Purge Time:**	10:41
Sample Time:	11:15	**Complete Purge Time:**	11:06
Purge Method:	Low-Flow	**Sample Method:**	Waterra
Purge Rate (mL/min):	200	**Purge Time (hrs):**	:26
Sample Appearance:	Slightly Turbid	**Odors Observed:**	No odor
Analytical Laboratory:	Alpha	**Notes:**	PID: 0.7 ppm
Date Shipped:	3/11/2022		

Analyses Requested:

VOCs, SVOCs, Metals (total/dissolved), Pesticides, PCBs, 1,4-Dioxane, PFAS

Field Indicator Parameters

Time	Temp. (°C)	pH	Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turb. (NTU)			
10:41	11.80	6.35	3.63	-60	0.00	146			
10:46	14.69	6.68	4.37	-77	0.00	82.6			
10:51	14.64	6.61	4.38	-75	0.00	63.6			
10:56	14.68	6.53	4.38	-72	0.00	72.6			
11:01	14.70	6.55	4.39	-74	0.00	92.1			
11:06	14.70	6.52	4.40	-73	0.00	101			

P.W. GROSSER CONSULTING

Well Sampling Log

Well Designation:	MW-7	**Sampled By:**	WH
Site Address:	737 4th Ave	**Project Manager:**	JL
Project Name:	TOT2101 RI	**Project Number:**	TOT2101

Relative TOC Elevation (ft):	NM	**Well Use:**	Monitoring/Observation
Depth to Product (ft):	No Product	**Product Elevation (ft):**	NM
Depth to Water (ft):	18.64	**Groundwater Elevation (ft):**	NM
Depth to Bottom (ft):	26.61	**Bottom Elevation (ft):**	NM
Height of Water Column (ft):	7.97	**Well Diameter (in):**	4
Standing Water Volume (gal):	5.18	**Calculated Purge Volume (gal):**	1.59
Sample Date:	3/11/2022	**Begin Purge Time:**	9:45
Sample Time:	10:15	**Complete Purge Time:**	10:15
Purge Method:	Low-Flow	**Sample Method:**	Waterra
Purge Rate (mL/min):	200	**Purge Time (hrs):**	:30
Sample Appearance:	Turbid	**Odors Observed:**	No odor
Analytical Laboratory:	Alpha	**Notes:**	
Date Shipped:	3/11/2022		
Analyses Requested: VOCs, SVOCs, Metals (total/dissolved), Pesticides, PCBs, 1,4-Dioxane, PFAS			

Field Indicator Parameters

Time	Temp. (°C)	pH	Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turb. (NTU)			
9:45	14.88	7.73	1.54	87	24.02	0			
9:50	15.81	6.87	0.483	-13	0.00	687			
9:55	16.03	6.86	0.486	-27	0.00	500			
10:00	16.40	7.04	0.400	-56	0.00	375			
10:05	16.80	7.01	3.930	-66	0.00	393			
10:10	17.00	6.99	0.393	-66	0.00	390			

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Well Sampling Log

Well Designation:	MW-8	**Sampled By:**	MPP
Site Address:	737 4th Ave	**Project Manager:**	JL
Project Name:	TOT2101 RI	**Project Number:**	TOT2101

Relative TOC Elevation (ft):	NM	**Well Use:**	Monitoring/Observation
Depth to Product (ft):	No Product	**Product Elevation (ft):**	NM
Depth to Water (ft):	20.05	**Groundwater Elevation (ft):**	NM
Depth to Bottom (ft):	30.73	**Bottom Elevation (ft):**	NM
Height of Water Column (ft):	10.68	**Well Diameter (in):**	4
Standing Water Volume (gal):	6.94	**Calculated Purge Volume (gal):**	1.06
Sample Date:	3/10/2022	**Begin Purge Time:**	16:55
Sample Time:	17:20	**Complete Purge Time:**	17:15
Purge Method:	Low-Flow	**Sample Method:**	Waterra
Purge Rate (mL/min):	200	**Purge Time (hrs):**	0:20
Sample Appearance:	Slightly Turbid	**Odors Observed:**	Slight petroleum odor
Analytical Laboratory:	Alpha	**Notes:**	PID: 7.1 ppm
Date Shipped:	3/11/2022		

Analyses Requested:

VOCs, SVOCs, Metals (total/dissolved), Pesticides, PCBs, 1,4-Dioxane, PFAS

Field Indicator Parameters

Time	Temp. (°C)	pH	Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turb. (NTU)			
16:55	14.87	7.05	4.16	-96	0.00	142			
17:00	15.24	6.68	3.40	-62	0.00	29.8			
17:05	15.91	6.70	3.21	-81	0.00	120			
17:10	15.91	6.76	3.19	-88	0.00	121			
17:15	15.95	6.80	3.21	-93	0.00	125			

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Well Sampling Log

Well Designation:	MW-31	**Sampled By:**	MPP
Site Address:	737 4th Ave	**Project Manager:**	JL
Project Name:	TOT2101 RI	**Project Number:**	TOT2101

Relative TOC Elevation (ft):	NM	**Well Use:**	Monitoring/Observation
Depth to Product (ft):	No Product	**Product Elevation (ft):**	NM
Depth to Water (ft):	22.46	**Groundwater Elevation (ft):**	NM
Depth to Bottom (ft):	28.95	**Bottom Elevation (ft):**	NM
Height of Water Column (ft):	6.49	**Well Diameter (in):**	4
Standing Water Volume (gal):	4.22	**Calculated Purge Volume (gal):**	1.37
Sample Date:	3/10/2022	**Begin Purge Time:**	9:43
Sample Time:	10:10	**Complete Purge Time:**	10:09
Purge Method:	Low-Flow	**Sample Method:**	Waterra
Purge Rate (mL/min):	200	**Purge Time (hrs):**	:26
Sample Appearance:	Slightly Turbid	**Odors Observed:**	Petroleum odor
Analytical Laboratory:	Alpha	**Notes:**	PID: 4.4 ppm
Date Shipped:	3/11/2022		

Analyses Requested:

VOCs, SVOCs, Metals (total/dissolved), Pesticides, PCBs, 1,4-Dioxane, PFAS

Field Indicator Parameters

Time	Temp. (°C)	pH	Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turb. (NTU)			
9:43	8.18	8.30	3.44	-86	9.39	155			
9:46	9.48	7.27	3.51	-88	0.00	139			
9:49	10.06	6.97	3.56	-91	0.00	146			
9:54	10.58	6.78	3.56	-91	0.00	158			
9:59	10.88	6.70	3.59	-89	0.00	145			
10:04	11.22	6.66	3.60	-90	0.00	139			

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Well Sampling Log

Well Designation:	MW-81/ DUP003	**Sampled By:**	MPP
Site Address:	737 4th Ave	**Project Manager:**	JL
Project Name:	TOT2101 RI	**Project Number:**	TOT2101

Relative TOC Elevation (ft):	NM	**Well Use:**	Monitoring/Observation
Depth to Product (ft):	No Product	**Product Elevation (ft):**	NM
Depth to Water (ft):	23.35	**Groundwater Elevation (ft):**	NM
Depth to Bottom (ft):	36.81	**Bottom Elevation (ft):**	NM
Height of Water Column (ft):	13.46	**Well Diameter (in):**	4
Standing Water Volume (gal):	8.75	**Calculated Purge Volume (gal):**	1.32
Sample Date:	3/10/2022	**Begin Purge Time:**	13:39
Sample Time:	14:05	**Complete Purge Time:**	14:04
Purge Method:	Low-Flow	**Sample Method:**	Waterra
Purge Rate (mL/min):	200	**Purge Time (hrs):**	0:25
Sample Appearance:	Slightly Turbid	**Odors Observed:**	No odor
Analytical Laboratory:	Alpha	**Notes:**	PID: 0.1 ppm
Date Shipped:	3/11/2022		

Analyses Requested:

VOCs, SVOCs, Metals (total/dissolved), Pesticides, PCBs, 1,4-Dioxane, PFAS

Field Indicator Parameters

Time	Temp. (°C)	pH	Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turb. (NTU)			
13:39	15.62	6.94	0.52	48	0.00	213			
13:44	15.72	6.96	1.04	67	0.00	11.8			
13:49	15.83	6.81	1.04	92	0.00	9			
13:54	15.54	6.91	1.04	103	0.00	9.4			
13:59	15.55	6.88	1.05	116	0.00	13.1			
14:04	16.17	6.85	1.05	127	0.00	16.9			

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Well Sampling Log

Well Designation:	MW-82	**Sampled By:**	MPP
Site Address:	737 4th Ave	**Project Manager:**	JL
Project Name:	TOT2101 RI	**Project Number:**	TOT2101

Relative TOC Elevation (ft):	NM	**Well Use:**	Monitoring/Observation
Depth to Product (ft):	No Product	**Product Elevation (ft):**	NM
Depth to Water (ft):	21.55	**Groundwater Elevation (ft):**	NM
Depth to Bottom (ft):	23.40	**Bottom Elevation (ft):**	NM
Height of Water Column (ft):	1.85	**Well Diameter (in):**	4
Standing Water Volume (gal):	1.20	**Calculated Purge Volume (gal):**	1.06
Sample Date:	3/10/2022	**Begin Purge Time:**	14:54
Sample Time:	15:20	**Complete Purge Time:**	15:14
Purge Method:	Low-Flow	**Sample Method:**	Waterra
Purge Rate (mL/min):	200	**Purge Time (hrs):**	0:20
Sample Appearance:	Slightly Turbid	**Odors Observed:**	No odor
Analytical Laboratory:	Alpha	**Notes:**	PID: 0.2 ppm
Date Shipped:	3/11/2022		

Analyses Requested:

VOCs, SVOCs, Metals (total/dissolved), Pesticides, PCBs, 1,4-Dioxane, PFAS

Field Indicator Parameters

Time	Temp. (°C)	pH	Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turb. (NTU)			
14:54	14.43	6.91	0.30	33	0.00	151			
14:59	14.38	6.77	0.29	26	0.00	151			
15:04	14.03	6.59	0.29	24	0.00	140			
15:09	13.97	6.60	0.28	16	0.00	127			
15:14	13.74	6.57	0.28	15	0.00	121			

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Well Sampling Log

Well Designation:	MW-84	**Sampled By:**	MPP
Site Address:	737 4th Ave	**Project Manager:**	JL
Project Name:	TOT2101 RI	**Project Number:**	TOT2101

Relative TOC Elevation (ft):	NM	**Well Use:**	Monitoring/Observation
Depth to Product (ft):	No Product	**Product Elevation (ft):**	NM
Depth to Water (ft):	19.69	**Groundwater Elevation (ft):**	NM
Depth to Bottom (ft):	31.78	**Bottom Elevation (ft):**	NM
Height of Water Column (ft):	12.09	**Well Diameter (in):**	4
Standing Water Volume (gal):	7.86	**Calculated Purge Volume (gal):**	1.59
Sample Date:	3/10/2022	**Begin Purge Time:**	12:20
Sample Time:	13:00	**Complete Purge Time:**	12:50
Purge Method:	Low-Flow	**Sample Method:**	Waterra
Purge Rate (mL/min):	200	**Purge Time (hrs):**	0:30
Sample Appearance:	Slightly Turbid	**Odors Observed:**	No odor
Analytical Laboratory:	Alpha	**Notes:**	PID: 0.1 ppm
Date Shipped:	3/11/2022		

Analyses Requested:

VOCs, SVOCs, Metals (total/dissolved), Pesticides, PCBs, 1,4-Dioxane, PFAS

Field Indicator Parameters

Time	Temp. (°C)	pH	Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turb. (NTU)			
12:20	15.37	7.46	0.31	-55	0.00	448			
12:25	15.62	7.26	0.19	-26	0.00	423			
12:30	15.38	7.09	0.17	-1	0.00	419			
12:35	15.81	6.97	0.20	15	0.00	415			
12:40	15.69	6.71	0.18	48	0.00	395			
12:45	15.33	6.86	0.18	51	0.00	394			
12:50	15.46	6.70	0.18	66	0.00	373			

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Well Sampling Log

Well Designation:	MW-86	**Sampled By:**	WH
Site Address:	737 4th Ave	**Project Manager:**	JL
Project Name:	TOT2101 RI	**Project Number:**	TOT2101

Relative TOC Elevation (ft):	NM	**Well Use:**	Monitoring/Observation
Depth to Product (ft):	No Product	**Product Elevation (ft):**	NM
Depth to Water (ft):	19.17	**Groundwater Elevation (ft):**	NM
Depth to Bottom (ft):	32.07	**Bottom Elevation (ft):**	NM
Height of Water Column (ft):	12.90	**Well Diameter (in):**	4
Standing Water Volume (gal):	8.39	**Calculated Purge Volume (gal):**	1.16
Sample Date:	3/11/2022	**Begin Purge Time:**	12:43
Sample Time:	10:15	**Complete Purge Time:**	13:05
Purge Method:	Low-Flow	**Sample Method:**	Waterra
Purge Rate (mL/min):	200	**Purge Time (hrs):**	:22
Sample Appearance:	Slightly Turbid	**Odors Observed:**	No odor
Analytical Laboratory:	Alpha	**Notes:**	
Date Shipped:	3/11/2022		
Analyses Requested: VOCs, SVOCs, Metals (total/dissolved), Pesticides, PCBs, 1,4-Dioxane, PFAS			

Field Indicator Parameters

Time	Temp. (°C)	pH	Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turb. (NTU)			
12:43	16.52	6.05	1.94	-60	0.00	121			
12:48	16.85	6.72	3.100	-89	0.00	182			
12:53	16.42	6.68	3.170	-83	0.00	167			
12:58	16.13	6.61	3.210	-78	0.00	157			

APPENDIX F

DAILY FIELD REPORTS / CAMP LOGS

P.W. GROSSER CONSULTING, INC.
P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, P.C.
PHONE: 631.589.6353 PWGROSSER.COM 630 JOHNSON AVENUE, STE 7 BOHEMIA, NY 11716
LONG ISLAND • MANHATTAN • SARATOGA SPRINGS • SYRACUSE • SEATTLE • SHELTON

PWGC	DATE:	3/1/22	DAY:	Tuesday
	ON-SITE:	0645 am	OFF-SITE:	0700 pm
	NYSDEC Project #:	C224332		
	PWGC Project #:	TOT2101		

DAILY FIELD ACTIVITY REPORT	
PROJECT:	737 4th Avenue Site
LOCATION:	731-747 4th Avenue, Brooklyn, New York 11232
WEATHER:	Cloudy, 31-39° F, Wind South-Southwest
SITE SAFETY OFFICER:	Michael Pecoraro
ATTACHMENTS:	RI Sampling Plan, CAMP Readings

SUMMARY OF SITE ACTIVITIES

PWGC mobilized to the site to perform the field work outlined in the Remedial Investigation Work Plan (RIWP) which included the following:

CAMP Oversight

- Upwind and downwind CAMP stations were set up and operated during instrusive work. No exceedances were observed throughout the day. Due to an equipment malfunction, downwind dust for the day was not logged.

Geophysical Survey:

- Delta Geophysics conducted a geophysical survey across the exterior portions of the 737 4th Avenue property. Proposed sample points were pre-cleared, and subgrade anomalies (sewer, electrical, water, and gas lines) were marked with spray paint. No anomalies indicative of tanks, drums, etc. were noted.

Soil Boring Installation:

- A Geoprobe was utilized to collect soil cores at eleven soil boring locations (SB001 – SB011) by Associated Environmental Services.
- Soils were screened with a PID and classified by a PWGC field hydrogeologist. Elevated screening levels were observed in SB007, SB009, and SB011.
- Soil samples were collected from each soil boring from the intervals proposed in the RIWP. Soil samples were submitted to Alpha Analytical Laboratories (AAL) via courier service under COC. The samples will be analyzed by AAL in accordance with the procedures in the RIWP.

Groundwater Monitoring Well Installation:

- A Geoprobe was utilized to attempt to install groundwater monitoring wells at three locations.
- PWGC-MW002 was installed in the vacant building adjacent to the delicatessen. Due to multiple refusals above the water table, PWGC-MW001 and PWGC-MW002 were unable to be installed.

Soil Vapor Sampling Point Installation:

- A Geoprobe and/or hand tools were utilized to install ten soil vapor sampling points (SS001-SS004 & SV001-SV006).

PREPARED BY	**REVIEWED BY**
PRINT NAME: Michael Pecoraro	PRINT NAME: Derek Ersbak

PWGC	DATE:	3/1/22	DAY:	Tuesday
	ON-SITE:	0645 am	OFF-SITE:	0700 pm
	NYSDEC Project #:	C224332		
	PWGC Project #:	TOT2101		

PHOTO LOG



View of upwind CAMP station.



View of Delta conducting geophysical.



View of Associated installing soil boring SB011.



View of soil boring SB006



View of 420-M Geoprobe in 737 basement.



View of sub-slab vapor sample point.

PWGC	DATE:	3/1/22	DAY:	Tuesday
	ON-SITE:	0645 am	OFF-SITE:	0700 pm
	NYSDEC Project #:	C224332		
	PWGC Project #:	TOT2101		



View of soil boring SB007.



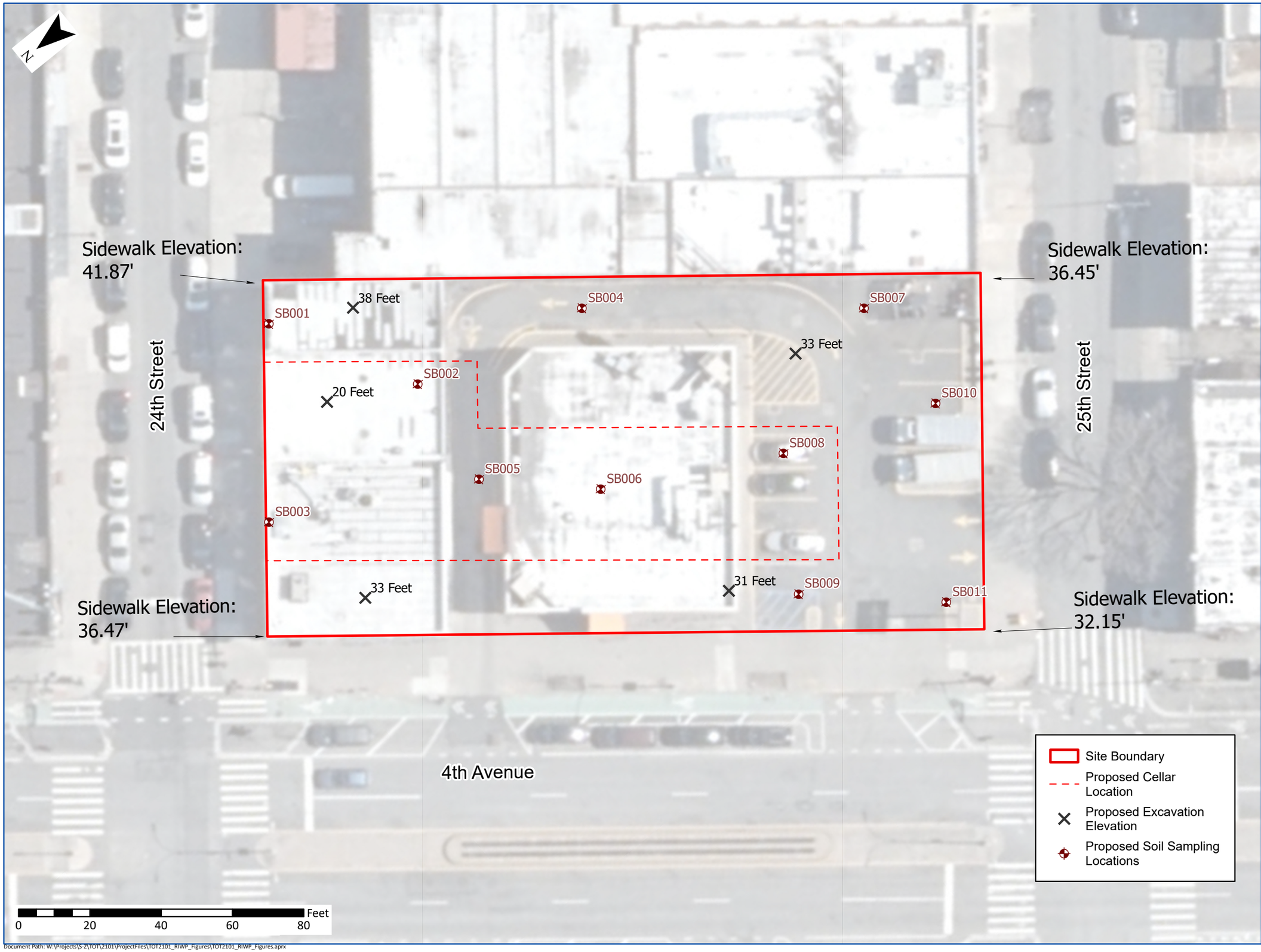
View of soil boring SB008.



View of soil boring SB005.



View of Delta conducting geophysical.



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Project:	TOT2101	Designed by:	JL
Date:	2/16/2022	Drawn by:	OA
Scale:	AS SHOWN	Approved by:	JL

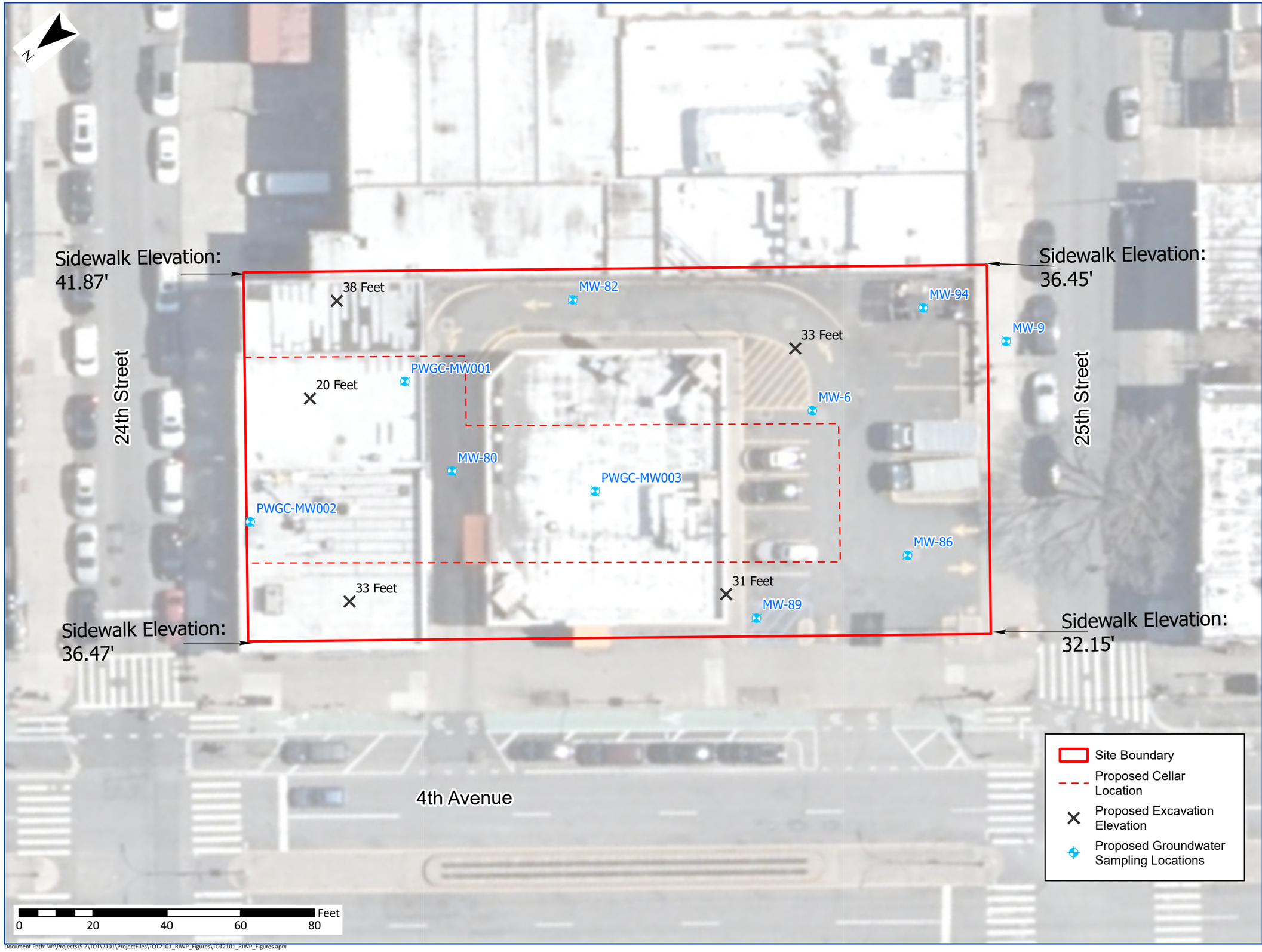
Proposed Soil Sampling Locations

731-737 4th Ave
Brooklyn, NY

FIGURE NO:

4

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Document Path: W:\Projects\S-Z\TOT\2101\ProjectFiles\TOT2101_RIWP_Figures\TOT2101_RIWP_Figures.aprx

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Date:	2/16/2022	Drawn by:	OA
Scale:	AS SHOWN	Approved by:	JL

Proposed Groundwater Sampling Locations

731-737 4th Ave
Brooklyn, NY

FIGURE NO:

5



Document Path: W:\Projects\S-Z\TOT\2101\ProjectFiles\TOT2101_RIWP_Figures\TOT2101_RIWP_Figures.aprx

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REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

Project:	TOT2101	Designed by:	JL
Date:	2/16/2022	Drawn by:	OA
Scale:	AS SHOWN	Approved by:	JL

Proposed Soil Vapor Sampling Locations

731-737 4th Ave
Brooklyn, NY

FIGURE NO:

6



Document Path: W:\Projects\S-Z\TOT\2101\Map Files\FIG02_SitePlan.mxd

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Project:	TOT2101	Designed by:	JL
Date:	3/29/2021	Drawn by:	UC
Scale:	AS SHOWN	Approved by:	JL

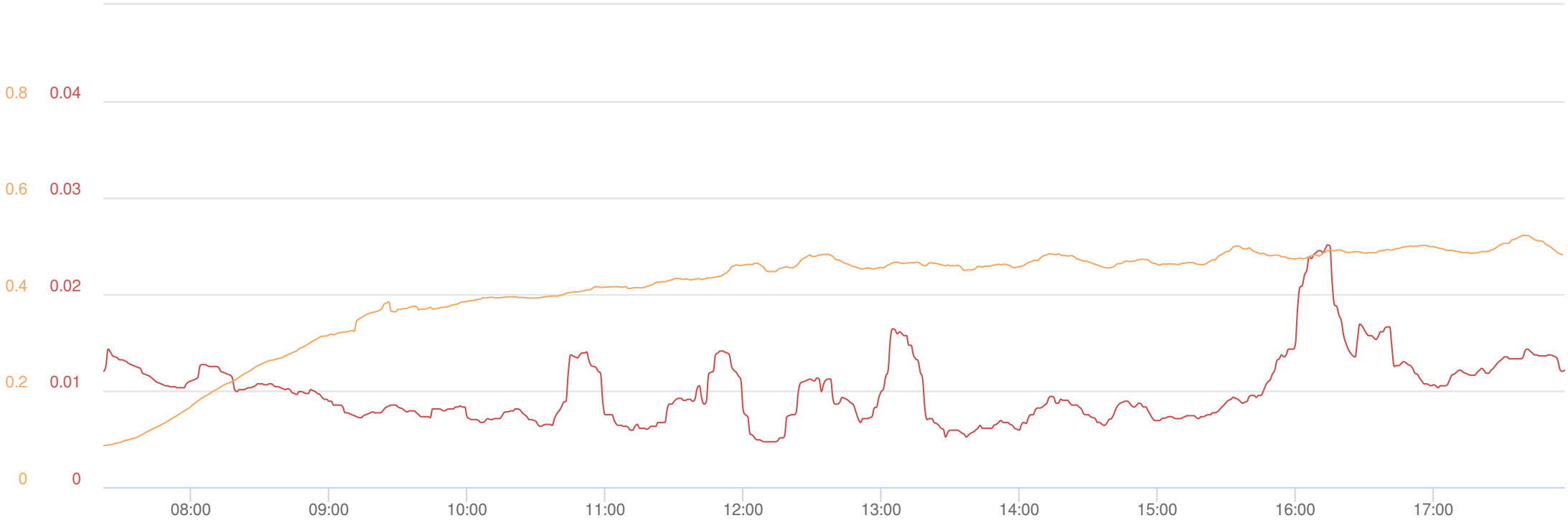
SITE PLAN

731-747 4th Ave
Brooklyn, NY

FIGURE NO:

2

03/01/2022 0:00:59 – 03/02/2022 0:00:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.0047	0.01	0.0251

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0.086	0.4097	0.5221

Name	TOT2101 UW (FA03927)
S/N	0B448132
Description	(FA03927)
Location	249-B 24th St, Brooklyn, NY 11232, USA

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Device	TOT2101 - Upwind CAMP Station	
Timestamp (America/New_York)	VOC ppm AVG 15m (ppm)	Mass Conc. Total mg/m³ AVG 15m (mg/m³)
3/1/2022 7:22	0.086	0.012
3/1/2022 7:23	0.0865	0.0125
3/1/2022 7:24	0.0873	0.0143
3/1/2022 7:25	0.0878	0.014
3/1/2022 7:26	0.0886	0.0136
3/1/2022 7:27	0.0905	0.0135
3/1/2022 7:28	0.0914	0.0134
3/1/2022 7:29	0.0922	0.0132
3/1/2022 7:30	0.0943	0.0132
3/1/2022 7:31	0.0958	0.0131
3/1/2022 7:32	0.0971	0.013
3/1/2022 7:33	0.0983	0.0128
3/1/2022 7:34	0.0998	0.0127
3/1/2022 7:35	0.101	0.0126
3/1/2022 7:36	0.1021	0.0125
3/1/2022 7:37	0.1045	0.0124
3/1/2022 7:38	0.107	0.0123
3/1/2022 7:39	0.1095	0.0118
3/1/2022 7:40	0.1121	0.0117
3/1/2022 7:41	0.1149	0.0116
3/1/2022 7:42	0.1171	0.0115
3/1/2022 7:43	0.1195	0.0113
3/1/2022 7:44	0.1223	0.0111
3/1/2022 7:45	0.1241	0.0109
3/1/2022 7:46	0.1267	0.0108
3/1/2022 7:47	0.1291	0.0107
3/1/2022 7:48	0.1317	0.0106
3/1/2022 7:49	0.1341	0.0105
3/1/2022 7:50	0.1369	0.0105
3/1/2022 7:51	0.1399	0.0104
3/1/2022 7:52	0.1429	0.0104
3/1/2022 7:53	0.1455	0.0104
3/1/2022 7:54	0.1484	0.0103
3/1/2022 7:55	0.1517	0.0103
3/1/2022 7:56	0.1547	0.0103
3/1/2022 7:57	0.1577	0.0103
3/1/2022 7:58	0.1607	0.0107
3/1/2022 7:59	0.1635	0.0109
3/1/2022 8:00	0.1673	0.011
3/1/2022 8:01	0.1712	0.0111
3/1/2022 8:02	0.1751	0.0112
3/1/2022 8:03	0.1786	0.0114
3/1/2022 8:04	0.1821	0.0126
3/1/2022 8:05	0.1853	0.0127
3/1/2022 8:06	0.1881	0.0127
3/1/2022 8:07	0.1905	0.0126
3/1/2022 8:08	0.1935	0.0125
3/1/2022 8:09	0.1966	0.0125
3/1/2022 8:10	0.1996	0.0125
3/1/2022 8:11	0.202	0.0125
3/1/2022 8:12	0.2048	0.0124
3/1/2022 8:13	0.2079	0.012
3/1/2022 8:14	0.2108	0.0119

3/1/2022 8:15	0.2134	0.0118
3/1/2022 8:16	0.215	0.0117
3/1/2022 8:17	0.2171	0.0116
3/1/2022 8:18	0.2193	0.0113
3/1/2022 8:19	0.2215	0.0101
3/1/2022 8:20	0.2245	0.0099
3/1/2022 8:21	0.2281	0.0101
3/1/2022 8:22	0.2311	0.0101
3/1/2022 8:23	0.2343	0.0101
3/1/2022 8:24	0.2369	0.0102
3/1/2022 8:25	0.2394	0.0103
3/1/2022 8:26	0.2425	0.0103
3/1/2022 8:27	0.2455	0.0104
3/1/2022 8:28	0.2489	0.0105
3/1/2022 8:29	0.2517	0.0107
3/1/2022 8:30	0.2537	0.0107
3/1/2022 8:31	0.2561	0.0107
3/1/2022 8:32	0.2581	0.0106
3/1/2022 8:33	0.2603	0.0106
3/1/2022 8:34	0.2619	0.0107
3/1/2022 8:35	0.2629	0.0107
3/1/2022 8:36	0.2639	0.0105
3/1/2022 8:37	0.2653	0.0104
3/1/2022 8:38	0.2665	0.0104
3/1/2022 8:39	0.2679	0.0103
3/1/2022 8:40	0.2693	0.0102
3/1/2022 8:41	0.272	0.0101
3/1/2022 8:42	0.2743	0.0102
3/1/2022 8:43	0.2761	0.0101
3/1/2022 8:44	0.2788	0.0098
3/1/2022 8:45	0.2805	0.0097
3/1/2022 8:46	0.2825	0.0096
3/1/2022 8:47	0.2868	0.0099
3/1/2022 8:48	0.2889	0.0099
3/1/2022 8:49	0.2913	0.0098
3/1/2022 8:50	0.294	0.0097
3/1/2022 8:51	0.2967	0.0097
3/1/2022 8:52	0.2999	0.0101
3/1/2022 8:53	0.3029	0.01
3/1/2022 8:54	0.3055	0.0099
3/1/2022 8:55	0.3075	0.0097
3/1/2022 8:56	0.311	0.0096
3/1/2022 8:57	0.3125	0.0093
3/1/2022 8:58	0.3131	0.0091
3/1/2022 8:59	0.3133	0.0091
3/1/2022 9:00	0.3155	0.0089
3/1/2022 9:01	0.3169	0.0089
3/1/2022 9:02	0.3159	0.0085
3/1/2022 9:03	0.3175	0.0085
3/1/2022 9:04	0.3193	0.0085
3/1/2022 9:05	0.3202	0.0085
3/1/2022 9:06	0.3212	0.0083
3/1/2022 9:07	0.3216	0.0077
3/1/2022 9:08	0.3221	0.0077
3/1/2022 9:09	0.3231	0.0076

3/1/2022 9:10	0.3246	0.0075
3/1/2022 9:11	0.3231	0.0074
3/1/2022 9:12	0.3446	0.0073
3/1/2022 9:13	0.3481	0.0072
3/1/2022 9:14	0.3518	0.0072
3/1/2022 9:15	0.3538	0.0074
3/1/2022 9:16	0.3573	0.0075
3/1/2022 9:17	0.3591	0.0076
3/1/2022 9:18	0.3609	0.0077
3/1/2022 9:19	0.3621	0.0078
3/1/2022 9:20	0.3631	0.0077
3/1/2022 9:21	0.3647	0.0077
3/1/2022 9:22	0.3668	0.0077
3/1/2022 9:23	0.3706	0.0078
3/1/2022 9:24	0.3796	0.0081
3/1/2022 9:25	0.3815	0.0083
3/1/2022 9:26	0.3843	0.0084
3/1/2022 9:27	0.3647	0.0085
3/1/2022 9:28	0.3639	0.0085
3/1/2022 9:29	0.3635	0.0085
3/1/2022 9:30	0.3682	0.0083
3/1/2022 9:31	0.3683	0.0082
3/1/2022 9:32	0.3695	0.0081
3/1/2022 9:33	0.37	0.0079
3/1/2022 9:34	0.3705	0.0078
3/1/2022 9:35	0.3728	0.0079
3/1/2022 9:36	0.3739	0.0079
3/1/2022 9:37	0.3747	0.0079
3/1/2022 9:38	0.374	0.0077
3/1/2022 9:39	0.3678	0.0075
3/1/2022 9:40	0.3686	0.0073
3/1/2022 9:41	0.3687	0.0073
3/1/2022 9:42	0.3695	0.0073
3/1/2022 9:43	0.3708	0.0073
3/1/2022 9:44	0.3727	0.0072
3/1/2022 9:45	0.3695	0.0081
3/1/2022 9:46	0.3694	0.0081
3/1/2022 9:47	0.3703	0.0081
3/1/2022 9:48	0.3712	0.0081
3/1/2022 9:49	0.3725	0.008
3/1/2022 9:50	0.3728	0.0079
3/1/2022 9:51	0.3736	0.008
3/1/2022 9:52	0.3741	0.0081
3/1/2022 9:53	0.3763	0.0081
3/1/2022 9:54	0.3777	0.0081
3/1/2022 9:55	0.3785	0.0083
3/1/2022 9:56	0.3797	0.0083
3/1/2022 9:57	0.3827	0.0084
3/1/2022 9:58	0.384	0.0083
3/1/2022 9:59	0.3842	0.0083
3/1/2022 10:00	0.3849	0.0073
3/1/2022 10:01	0.3859	0.0071
3/1/2022 10:02	0.3867	0.007
3/1/2022 10:03	0.3875	0.007
3/1/2022 10:04	0.3885	0.007

3/1/2022 10:05	0.3893	0.0069
3/1/2022 10:06	0.39	0.0067
3/1/2022 10:07	0.3925	0.0067
3/1/2022 10:08	0.3922	0.0069
3/1/2022 10:09	0.3927	0.0071
3/1/2022 10:10	0.3932	0.007
3/1/2022 10:11	0.3936	0.007
3/1/2022 10:12	0.3923	0.0071
3/1/2022 10:13	0.3924	0.0071
3/1/2022 10:14	0.3923	0.0071
3/1/2022 10:15	0.3929	0.0073
3/1/2022 10:16	0.3935	0.0077
3/1/2022 10:17	0.394	0.0078
3/1/2022 10:18	0.3942	0.0078
3/1/2022 10:19	0.3945	0.0079
3/1/2022 10:20	0.3945	0.0079
3/1/2022 10:21	0.3945	0.0081
3/1/2022 10:22	0.3935	0.0081
3/1/2022 10:23	0.3931	0.008
3/1/2022 10:24	0.3931	0.0077
3/1/2022 10:25	0.3929	0.0075
3/1/2022 10:26	0.3921	0.0073
3/1/2022 10:27	0.3921	0.007
3/1/2022 10:28	0.3919	0.007
3/1/2022 10:29	0.3921	0.0069
3/1/2022 10:30	0.3921	0.0068
3/1/2022 10:31	0.3924	0.0064
3/1/2022 10:32	0.3927	0.0063
3/1/2022 10:33	0.3942	0.0064
3/1/2022 10:34	0.3945	0.0065
3/1/2022 10:35	0.3951	0.0065
3/1/2022 10:36	0.3958	0.0065
3/1/2022 10:37	0.3958	0.0064
3/1/2022 10:38	0.3962	0.0071
3/1/2022 10:39	0.3959	0.0076
3/1/2022 10:40	0.3967	0.0079
3/1/2022 10:41	0.3981	0.0083
3/1/2022 10:42	0.3991	0.0088
3/1/2022 10:43	0.4018	0.0089
3/1/2022 10:44	0.4028	0.0119
3/1/2022 10:45	0.4035	0.0137
3/1/2022 10:46	0.4044	0.0136
3/1/2022 10:47	0.4047	0.0135
3/1/2022 10:48	0.4046	0.0134
3/1/2022 10:49	0.4055	0.0137
3/1/2022 10:50	0.4061	0.0139
3/1/2022 10:51	0.4073	0.0139
3/1/2022 10:52	0.4087	0.014
3/1/2022 10:53	0.4093	0.0131
3/1/2022 10:54	0.4101	0.0126
3/1/2022 10:55	0.4138	0.0125
3/1/2022 10:56	0.4153	0.0124
3/1/2022 10:57	0.4154	0.012
3/1/2022 10:58	0.4139	0.0118
3/1/2022 10:59	0.4139	0.0088

3/1/2022 11:00	0.4147	0.0075
3/1/2022 11:01	0.4147	0.0075
3/1/2022 11:02	0.4153	0.0075
3/1/2022 11:03	0.4154	0.0075
3/1/2022 11:04	0.4153	0.0069
3/1/2022 11:05	0.4157	0.0065
3/1/2022 11:06	0.4151	0.0064
3/1/2022 11:07	0.4145	0.0064
3/1/2022 11:08	0.4146	0.0063
3/1/2022 11:09	0.4155	0.0063
3/1/2022 11:10	0.4118	0.0062
3/1/2022 11:11	0.4118	0.0059
3/1/2022 11:12	0.413	0.0059
3/1/2022 11:13	0.4131	0.0063
3/1/2022 11:14	0.4137	0.0065
3/1/2022 11:15	0.4131	0.0061
3/1/2022 11:16	0.4133	0.0061
3/1/2022 11:17	0.4141	0.0061
3/1/2022 11:18	0.4155	0.006
3/1/2022 11:19	0.4177	0.0061
3/1/2022 11:20	0.4189	0.0063
3/1/2022 11:21	0.421	0.0063
3/1/2022 11:22	0.4238	0.0063
3/1/2022 11:23	0.425	0.0067
3/1/2022 11:24	0.425	0.0067
3/1/2022 11:25	0.4259	0.0067
3/1/2022 11:26	0.4257	0.0067
3/1/2022 11:27	0.4272	0.0081
3/1/2022 11:28	0.4286	0.0086
3/1/2022 11:29	0.4295	0.0086
3/1/2022 11:30	0.4317	0.0089
3/1/2022 11:31	0.4326	0.0091
3/1/2022 11:32	0.4325	0.0092
3/1/2022 11:33	0.4315	0.0092
3/1/2022 11:34	0.4306	0.009
3/1/2022 11:35	0.4315	0.009
3/1/2022 11:36	0.4311	0.0091
3/1/2022 11:37	0.4297	0.0091
3/1/2022 11:38	0.4305	0.0089
3/1/2022 11:39	0.4307	0.0091
3/1/2022 11:40	0.4319	0.0102
3/1/2022 11:41	0.4321	0.0105
3/1/2022 11:42	0.4305	0.0092
3/1/2022 11:43	0.4314	0.0086
3/1/2022 11:44	0.4331	0.0089
3/1/2022 11:45	0.4337	0.0117
3/1/2022 11:46	0.4337	0.0119
3/1/2022 11:47	0.4346	0.012
3/1/2022 11:48	0.4351	0.0137
3/1/2022 11:49	0.4367	0.0139
3/1/2022 11:50	0.437	0.0141
3/1/2022 11:51	0.4395	0.0141
3/1/2022 11:52	0.4422	0.014
3/1/2022 11:53	0.4452	0.0139
3/1/2022 11:54	0.4499	0.0137

3/1/2022 11:55	0.4568	0.0125
3/1/2022 11:56	0.4585	0.0121
3/1/2022 11:57	0.4603	0.0119
3/1/2022 11:58	0.4601	0.0115
3/1/2022 11:59	0.4595	0.0111
3/1/2022 12:00	0.4601	0.008
3/1/2022 12:01	0.4609	0.0075
3/1/2022 12:02	0.4615	0.0073
3/1/2022 12:03	0.4618	0.0055
3/1/2022 12:04	0.4611	0.0054
3/1/2022 12:05	0.4639	0.0051
3/1/2022 12:06	0.4639	0.0049
3/1/2022 12:07	0.4622	0.0049
3/1/2022 12:08	0.4589	0.0048
3/1/2022 12:09	0.4553	0.0047
3/1/2022 12:10	0.4485	0.0047
3/1/2022 12:11	0.4475	0.0047
3/1/2022 12:12	0.4466	0.0047
3/1/2022 12:13	0.4469	0.0047
3/1/2022 12:14	0.4468	0.0047
3/1/2022 12:15	0.4508	0.0048
3/1/2022 12:16	0.4533	0.0051
3/1/2022 12:17	0.4546	0.0051
3/1/2022 12:18	0.4559	0.0053
3/1/2022 12:19	0.4569	0.0073
3/1/2022 12:20	0.4548	0.0074
3/1/2022 12:21	0.4547	0.0075
3/1/2022 12:22	0.4556	0.0075
3/1/2022 12:23	0.4589	0.0077
3/1/2022 12:24	0.4631	0.0099
3/1/2022 12:25	0.4697	0.0108
3/1/2022 12:26	0.4736	0.0109
3/1/2022 12:27	0.4757	0.011
3/1/2022 12:28	0.4788	0.0111
3/1/2022 12:29	0.4811	0.0112
3/1/2022 12:30	0.4782	0.0111
3/1/2022 12:31	0.4783	0.011
3/1/2022 12:32	0.4793	0.0113
3/1/2022 12:33	0.4811	0.0112
3/1/2022 12:34	0.4811	0.0099
3/1/2022 12:35	0.4827	0.0107
3/1/2022 12:36	0.4821	0.0111
3/1/2022 12:37	0.4827	0.0112
3/1/2022 12:38	0.4803	0.0112
3/1/2022 12:39	0.4783	0.0092
3/1/2022 12:40	0.4726	0.0086
3/1/2022 12:41	0.4713	0.0086
3/1/2022 12:42	0.4701	0.0088
3/1/2022 12:43	0.4671	0.0093
3/1/2022 12:44	0.4645	0.0092
3/1/2022 12:45	0.4631	0.0091
3/1/2022 12:46	0.4613	0.0089
3/1/2022 12:47	0.459	0.0087
3/1/2022 12:48	0.4569	0.0085
3/1/2022 12:49	0.4563	0.0078

3/1/2022 12:50	0.454	0.0071
3/1/2022 12:51	0.4529	0.0067
3/1/2022 12:52	0.4522	0.0071
3/1/2022 12:53	0.4537	0.0071
3/1/2022 12:54	0.454	0.0071
3/1/2022 12:55	0.4541	0.0072
3/1/2022 12:56	0.4523	0.0073
3/1/2022 12:57	0.4526	0.0082
3/1/2022 12:58	0.4536	0.0083
3/1/2022 12:59	0.4548	0.0093
3/1/2022 13:00	0.4548	0.0099
3/1/2022 13:01	0.4551	0.0102
3/1/2022 13:02	0.4575	0.0115
3/1/2022 13:03	0.4603	0.0121
3/1/2022 13:04	0.4626	0.0154
3/1/2022 13:05	0.4648	0.0164
3/1/2022 13:06	0.466	0.0163
3/1/2022 13:07	0.4663	0.0159
3/1/2022 13:08	0.4652	0.0161
3/1/2022 13:09	0.4635	0.0159
3/1/2022 13:10	0.4639	0.0157
3/1/2022 13:11	0.4645	0.0157
3/1/2022 13:12	0.4647	0.0147
3/1/2022 13:13	0.4655	0.0147
3/1/2022 13:14	0.4647	0.0137
3/1/2022 13:15	0.4661	0.0133
3/1/2022 13:16	0.4659	0.0131
3/1/2022 13:17	0.4636	0.0119
3/1/2022 13:18	0.4602	0.0112
3/1/2022 13:19	0.4588	0.0081
3/1/2022 13:20	0.4609	0.007
3/1/2022 13:21	0.4649	0.0071
3/1/2022 13:22	0.4646	0.0071
3/1/2022 13:23	0.464	0.0067
3/1/2022 13:24	0.4634	0.0066
3/1/2022 13:25	0.4623	0.0064
3/1/2022 13:26	0.4612	0.0061
3/1/2022 13:27	0.4599	0.006
3/1/2022 13:28	0.4589	0.0052
3/1/2022 13:29	0.4605	0.0057
3/1/2022 13:30	0.4587	0.0059
3/1/2022 13:31	0.459	0.0059
3/1/2022 13:32	0.4589	0.0059
3/1/2022 13:33	0.4597	0.0059
3/1/2022 13:34	0.4587	0.0058
3/1/2022 13:35	0.4545	0.0056
3/1/2022 13:36	0.4491	0.0055
3/1/2022 13:37	0.4499	0.0052
3/1/2022 13:38	0.4502	0.0054
3/1/2022 13:39	0.45	0.0056
3/1/2022 13:40	0.4513	0.0057
3/1/2022 13:41	0.4532	0.0059
3/1/2022 13:42	0.4575	0.0061
3/1/2022 13:43	0.4573	0.0064
3/1/2022 13:44	0.4563	0.0061

3/1/2022 13:45	0.458	0.0061
3/1/2022 13:46	0.4579	0.0061
3/1/2022 13:47	0.4582	0.0061
3/1/2022 13:48	0.4592	0.0061
3/1/2022 13:49	0.4603	0.0064
3/1/2022 13:50	0.461	0.0065
3/1/2022 13:51	0.4619	0.0067
3/1/2022 13:52	0.4609	0.0069
3/1/2022 13:53	0.4617	0.0067
3/1/2022 13:54	0.4618	0.0067
3/1/2022 13:55	0.4607	0.0067
3/1/2022 13:56	0.4589	0.0065
3/1/2022 13:57	0.4557	0.0064
3/1/2022 13:58	0.4549	0.0061
3/1/2022 13:59	0.4559	0.006
3/1/2022 14:00	0.4569	0.0059
3/1/2022 14:01	0.4582	0.0065
3/1/2022 14:02	0.4592	0.0067
3/1/2022 14:03	0.4629	0.0066
3/1/2022 14:04	0.4657	0.0072
3/1/2022 14:05	0.4672	0.0075
3/1/2022 14:06	0.469	0.0075
3/1/2022 14:07	0.4701	0.008
3/1/2022 14:08	0.4698	0.0082
3/1/2022 14:09	0.4741	0.0082
3/1/2022 14:10	0.4782	0.0083
3/1/2022 14:11	0.4801	0.0085
3/1/2022 14:12	0.4815	0.0087
3/1/2022 14:13	0.4837	0.0093
3/1/2022 14:14	0.4831	0.0094
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3/1/2022 14:16	0.4819	0.0087
3/1/2022 14:17	0.4835	0.0087
3/1/2022 14:18	0.4813	0.0091
3/1/2022 14:19	0.4801	0.009
3/1/2022 14:20	0.4801	0.009
3/1/2022 14:21	0.4791	0.009
3/1/2022 14:22	0.4798	0.0087
3/1/2022 14:23	0.4797	0.0085
3/1/2022 14:24	0.4771	0.0085
3/1/2022 14:25	0.4731	0.0085
3/1/2022 14:26	0.4721	0.0083
3/1/2022 14:27	0.4704	0.0081
3/1/2022 14:28	0.4687	0.0076
3/1/2022 14:29	0.4687	0.0075
3/1/2022 14:30	0.4669	0.0075
3/1/2022 14:31	0.4659	0.0073
3/1/2022 14:32	0.4634	0.0072
3/1/2022 14:33	0.462	0.0071
3/1/2022 14:34	0.4603	0.0067
3/1/2022 14:35	0.4584	0.0067
3/1/2022 14:36	0.4569	0.0065
3/1/2022 14:37	0.4551	0.0064
3/1/2022 14:38	0.4546	0.0066
3/1/2022 14:39	0.4544	0.007

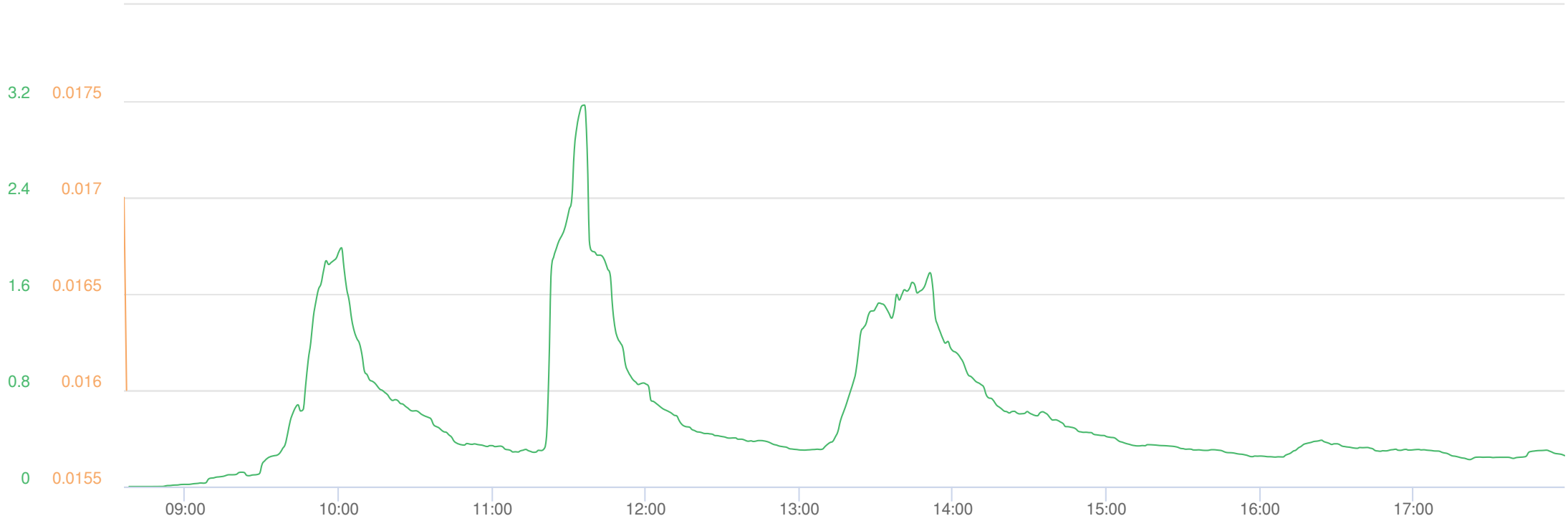
3/1/2022 14:40	0.4555	0.0071
3/1/2022 14:41	0.4568	0.0075
3/1/2022 14:42	0.4605	0.0081
3/1/2022 14:43	0.4633	0.0085
3/1/2022 14:44	0.4633	0.0087
3/1/2022 14:45	0.4654	0.0088
3/1/2022 14:46	0.4679	0.0089
3/1/2022 14:47	0.4685	0.0089
3/1/2022 14:48	0.4675	0.0087
3/1/2022 14:49	0.4681	0.0084
3/1/2022 14:50	0.4684	0.0083
3/1/2022 14:51	0.4702	0.0085
3/1/2022 14:52	0.4712	0.0087
3/1/2022 14:53	0.4723	0.0086
3/1/2022 14:54	0.4722	0.0083
3/1/2022 14:55	0.4719	0.0083
3/1/2022 14:56	0.4705	0.0079
3/1/2022 14:57	0.4671	0.0075
3/1/2022 14:58	0.4642	0.0071
3/1/2022 14:59	0.4637	0.0069
3/1/2022 15:00	0.4615	0.0069
3/1/2022 15:01	0.4602	0.0069
3/1/2022 15:02	0.462	0.0071
3/1/2022 15:03	0.4625	
3/1/2022 15:04	0.4622	0.0072
3/1/2022 15:05	0.4629	0.0073
3/1/2022 15:06	0.4623	0.0073
3/1/2022 15:07	0.4625	0.0072
3/1/2022 15:08	0.4619	0.0071
3/1/2022 15:09	0.4614	0.0071
3/1/2022 15:10	0.4626	0.0071
3/1/2022 15:11	0.4639	0.0072
3/1/2022 15:12	0.4641	0.0073
3/1/2022 15:13	0.465	0.0074
3/1/2022 15:14	0.4653	0.0074
3/1/2022 15:15	0.4656	0.0074
3/1/2022 15:16	0.4645	0.0074
3/1/2022 15:17	0.4623	0.0072
3/1/2022 15:18	0.4617	0.0071
3/1/2022 15:19	0.4612	0.0073
3/1/2022 15:20	0.461	0.0073
3/1/2022 15:21	0.4627	0.0074
3/1/2022 15:22	0.4655	0.0075
3/1/2022 15:23	0.4681	0.0075
3/1/2022 15:24	0.4711	0.0077
3/1/2022 15:25	0.4712	0.0077
3/1/2022 15:26	0.4756	0.0078
3/1/2022 15:27	0.4801	0.008
3/1/2022 15:28	0.4825	0.0083
3/1/2022 15:29	0.4852	0.0085
3/1/2022 15:30	0.4883	0.0088
3/1/2022 15:31	0.4889	0.009
3/1/2022 15:32	0.4927	0.0091
3/1/2022 15:33	0.4977	0.0093
3/1/2022 15:34	0.4995	0.0092

3/1/2022 15:35	0.5001	0.0091
3/1/2022 15:36	0.4983	0.0089
3/1/2022 15:37	0.495	0.0087
3/1/2022 15:38	0.4937	0.0088
3/1/2022 15:39	0.4941	0.0089
3/1/2022 15:40	0.496	0.0094
3/1/2022 15:41	0.4919	0.0095
3/1/2022 15:42	0.4889	0.0095
3/1/2022 15:43	0.4869	0.0093
3/1/2022 15:44	0.4851	0.0095
3/1/2022 15:45	0.4837	0.0095
3/1/2022 15:46	0.4848	0.0099
3/1/2022 15:47	0.4826	0.0105
3/1/2022 15:48	0.4804	0.0109
3/1/2022 15:49	0.4798	0.0111
3/1/2022 15:50	0.48	0.0117
3/1/2022 15:51	0.4809	0.0121
3/1/2022 15:52	0.4809	0.0131
3/1/2022 15:53	0.4803	0.0133
3/1/2022 15:54	0.4777	0.0137
3/1/2022 15:55	0.4775	0.0135
3/1/2022 15:56	0.4764	0.0137
3/1/2022 15:57	0.4741	0.0143
3/1/2022 15:58	0.4738	0.0143
3/1/2022 15:59	0.4733	0.0143
3/1/2022 16:00	0.473	0.0148
3/1/2022 16:01	0.4738	0.0186
3/1/2022 16:02	0.4749	0.0207
3/1/2022 16:03	0.4734	0.0209
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3/1/2022 16:05	0.4759	0.0225
3/1/2022 16:06	0.4771	0.0239
3/1/2022 16:07	0.4794	0.0237
3/1/2022 16:08	0.4809	0.0241
3/1/2022 16:09	0.4813	0.0243
3/1/2022 16:10	0.4791	0.0245
3/1/2022 16:11	0.4808	0.0245
3/1/2022 16:12	0.4846	0.0243
3/1/2022 16:13	0.4872	0.0247
3/1/2022 16:14	0.4898	0.0251
3/1/2022 16:15	0.4907	0.025
3/1/2022 16:16	0.4909	0.0212
3/1/2022 16:17	0.4897	0.0189
3/1/2022 16:18	0.4911	0.0187
3/1/2022 16:19	0.4916	0.0178
3/1/2022 16:20	0.4913	0.0172
3/1/2022 16:21	0.4889	0.0157
3/1/2022 16:22	0.4871	0.0149
3/1/2022 16:23	0.4865	0.0143
3/1/2022 16:24	0.4867	0.0139
3/1/2022 16:25	0.4871	0.0136
3/1/2022 16:26	0.4881	0.0135
3/1/2022 16:27	0.4879	0.0153
3/1/2022 16:28	0.4874	0.0169
3/1/2022 16:29	0.4859	0.0167

3/1/2022 16:30	0.4853	0.0163
3/1/2022 16:31	0.4851	0.0159
3/1/2022 16:32	0.4861	0.0157
3/1/2022 16:33	0.4858	0.0157
3/1/2022 16:34	0.4861	0.0155
3/1/2022 16:35	0.4855	0.0153
3/1/2022 16:36	0.4886	0.0156
3/1/2022 16:37	0.4897	0.0161
3/1/2022 16:38	0.4907	0.0161
3/1/2022 16:39	0.4915	0.0165
3/1/2022 16:40	0.4926	0.0166
3/1/2022 16:41	0.4918	0.0166
3/1/2022 16:42	0.4915	0.0144
3/1/2022 16:43	0.4929	0.0125
3/1/2022 16:44	0.4943	0.0126
3/1/2022 16:45	0.4947	0.0126
3/1/2022 16:46	0.4964	0.0128
3/1/2022 16:47	0.4975	0.013
3/1/2022 16:48	0.4985	0.0129
3/1/2022 16:49	0.4987	0.0127
3/1/2022 16:50	0.4997	0.0126
3/1/2022 16:51	0.499	0.0123
3/1/2022 16:52	0.4995	0.0118
3/1/2022 16:53	0.4989	0.0117
3/1/2022 16:54	0.5006	0.0113
3/1/2022 16:55	0.5007	0.011
3/1/2022 16:56	0.5011	0.0107
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3/1/2022 16:58	0.4993	0.0106
3/1/2022 16:59	0.4987	0.0105
3/1/2022 17:00	0.4985	0.0106
3/1/2022 17:01	0.4972	0.0105
3/1/2022 17:02	0.4959	0.0103
3/1/2022 17:03	0.4949	0.0105
3/1/2022 17:04	0.4939	0.0105
3/1/2022 17:05	0.4921	0.0105
3/1/2022 17:06	0.4907	0.0106
3/1/2022 17:07	0.4907	0.0111
3/1/2022 17:08	0.491	0.0116
3/1/2022 17:09	0.4896	0.0117
3/1/2022 17:10	0.4887	0.0119
3/1/2022 17:11	0.4881	0.0121
3/1/2022 17:12	0.487	0.0121
3/1/2022 17:13	0.4859	0.0119
3/1/2022 17:14	0.4861	0.0118
3/1/2022 17:15	0.4861	0.0117
3/1/2022 17:16	0.4848	0.0116
3/1/2022 17:17	0.4851	0.0116
3/1/2022 17:18	0.4855	0.0116
3/1/2022 17:19	0.4856	0.0119
3/1/2022 17:20	0.4869	0.0121
3/1/2022 17:21	0.4884	0.0123
3/1/2022 17:22	0.4883	0.0121
3/1/2022 17:23	0.4885	0.0118
3/1/2022 17:24	0.4887	0.0118

3/1/2022 17:25	0.4913	0.0121
3/1/2022 17:26	0.4925	0.0123
3/1/2022 17:27	0.4954	0.0126
3/1/2022 17:28	0.4991	0.0129
3/1/2022 17:29	0.5019	0.0131
3/1/2022 17:30	0.504	0.0133
3/1/2022 17:31	0.5054	0.0135
3/1/2022 17:32	0.5051	0.0135
3/1/2022 17:33	0.5066	0.0133
3/1/2022 17:34	0.5117	0.0133
3/1/2022 17:35	0.5137	0.0133
3/1/2022 17:36	0.5149	0.0133
3/1/2022 17:37	0.5179	0.0133
3/1/2022 17:38	0.5196	0.0133
3/1/2022 17:39	0.5221	0.0135
3/1/2022 17:40	0.5214	0.0142
3/1/2022 17:41	0.5215	0.0143
3/1/2022 17:42	0.5195	0.0141
3/1/2022 17:43	0.5161	0.0139
3/1/2022 17:44	0.5131	0.0137
3/1/2022 17:45	0.5112	0.0137
3/1/2022 17:46	0.5104	0.0136
3/1/2022 17:47	0.5101	0.0136
3/1/2022 17:48	0.5076	0.0136
3/1/2022 17:49	0.5029	0.0136
3/1/2022 17:50	0.5004	0.0137
3/1/2022 17:51	0.4979	0.0137
3/1/2022 17:52	0.4935	0.0136
3/1/2022 17:53	0.4901	0.0135
3/1/2022 17:54	0.486	0.0132
3/1/2022 17:55	0.4836	0.0122
3/1/2022 17:56	0.482	0.012
3/1/2022 17:57		0.0121

03/01/2022 0:00:47 – 03/02/2022 0:00:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.016	0.017	0.017

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.5954	3.1669

Name	TOT2101 DW (FA03793)
S/N	0B427035
Description	(FA03793)
Location	759 4th Ave, Brooklyn, NY 11232, USA

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Device	TOT2101 - Downwind CAMP Station	
Timestamp (America/New_York)	VOC ppm AVG 15m (ppm)	Mass Conc. Total mg/m³ AVG 15m (mg/m³)
3/1/2022 7:24		0.017
3/1/2022 7:25		0.016
3/1/2022 8:38	0	
3/1/2022 8:39	0	
3/1/2022 8:40	0	
3/1/2022 8:41	0	
3/1/2022 8:42	0	
3/1/2022 8:43	0	
3/1/2022 8:44	0	
3/1/2022 8:45	0	
3/1/2022 8:46	0	
3/1/2022 8:47	0	
3/1/2022 8:48	0.0003	
3/1/2022 8:49	0.0003	
3/1/2022 8:50	0.0006	
3/1/2022 8:51	0.0006	
3/1/2022 8:52	0.0041	
3/1/2022 8:53	0.0082	
3/1/2022 8:54	0.0086	
3/1/2022 8:55	0.0113	
3/1/2022 8:56	0.0125	
3/1/2022 8:57	0.0131	
3/1/2022 8:58	0.0165	
3/1/2022 8:59	0.0177	
3/1/2022 9:00	0.018	
3/1/2022 9:01	0.018	
3/1/2022 9:02	0.0195	
3/1/2022 9:03	0.0229	
3/1/2022 9:04	0.0249	
3/1/2022 9:05	0.0267	
3/1/2022 9:06	0.0298	
3/1/2022 9:07	0.0281	
3/1/2022 9:08	0.0317	
3/1/2022 9:09	0.0615	
3/1/2022 9:10	0.0701	
3/1/2022 9:11	0.0718	
3/1/2022 9:12	0.078	
3/1/2022 9:13	0.0801	
3/1/2022 9:14	0.0827	
3/1/2022 9:15	0.0859	
3/1/2022 9:16	0.0932	
3/1/2022 9:17	0.0981	
3/1/2022 9:18	0.0979	
3/1/2022 9:19	0.0984	
3/1/2022 9:20	0.1023	

3/1/2022 9:21	0.1168
3/1/2022 9:22	0.1189
3/1/2022 9:23	0.1162
3/1/2022 9:24	0.0923
3/1/2022 9:25	0.0901
3/1/2022 9:26	0.0955
3/1/2022 9:27	0.0973
3/1/2022 9:28	0.0998
3/1/2022 9:29	0.1095
3/1/2022 9:30	0.1867
3/1/2022 9:31	0.2139
3/1/2022 9:32	0.2341
3/1/2022 9:33	0.2463
3/1/2022 9:34	0.253
3/1/2022 9:35	0.2574
3/1/2022 9:36	0.2625
3/1/2022 9:37	0.2811
3/1/2022 9:38	0.3159
3/1/2022 9:39	0.3509
3/1/2022 9:40	0.444
3/1/2022 9:41	0.5475
3/1/2022 9:42	0.6089
3/1/2022 9:43	0.6555
3/1/2022 9:44	0.6787
3/1/2022 9:45	0.6276
3/1/2022 9:46	0.6392
3/1/2022 9:47	0.8413
3/1/2022 9:48	1.0495
3/1/2022 9:49	1.1971
3/1/2022 9:50	1.4069
3/1/2022 9:51	1.5349
3/1/2022 9:52	1.6368
3/1/2022 9:53	1.684
3/1/2022 9:54	1.7922
3/1/2022 9:55	1.8748
3/1/2022 9:56	1.8437
3/1/2022 9:57	1.8609
3/1/2022 9:58	1.8771
3/1/2022 9:59	1.8979
3/1/2022 10:00	1.9507
3/1/2022 10:01	1.9822
3/1/2022 10:02	1.8117
3/1/2022 10:03	1.6452
3/1/2022 10:04	1.5423
3/1/2022 10:05	1.3869
3/1/2022 10:06	1.2894
3/1/2022 10:07	1.2295

3/1/2022 10:08	1.1895
3/1/2022 10:09	1.0955
3/1/2022 10:10	0.9562
3/1/2022 10:11	0.9291
3/1/2022 10:12	0.8857
3/1/2022 10:13	0.8745
3/1/2022 10:14	0.8595
3/1/2022 10:15	0.8337
3/1/2022 10:16	0.8083
3/1/2022 10:17	0.7981
3/1/2022 10:18	0.7797
3/1/2022 10:19	0.7625
3/1/2022 10:20	0.7307
3/1/2022 10:21	0.715
3/1/2022 10:22	0.7213
3/1/2022 10:23	0.7137
3/1/2022 10:24	0.6901
3/1/2022 10:25	0.6845
3/1/2022 10:26	0.6659
3/1/2022 10:27	0.6507
3/1/2022 10:28	0.6325
3/1/2022 10:29	0.6275
3/1/2022 10:30	0.6294
3/1/2022 10:31	0.6218
3/1/2022 10:32	0.604
3/1/2022 10:33	0.5915
3/1/2022 10:34	0.5819
3/1/2022 10:35	0.5738
3/1/2022 10:36	0.5605
3/1/2022 10:37	0.5134
3/1/2022 10:38	0.4984
3/1/2022 10:39	0.4889
3/1/2022 10:40	0.4699
3/1/2022 10:41	0.455
3/1/2022 10:42	0.45
3/1/2022 10:43	0.4287
3/1/2022 10:44	0.4111
3/1/2022 10:45	0.3767
3/1/2022 10:46	0.3609
3/1/2022 10:47	0.352
3/1/2022 10:48	0.3465
3/1/2022 10:49	0.3444
3/1/2022 10:50	0.3573
3/1/2022 10:51	0.3532
3/1/2022 10:52	0.3505
3/1/2022 10:53	0.3543
3/1/2022 10:54	0.3498

3/1/2022 10:55	0.3463
3/1/2022 10:56	0.3435
3/1/2022 10:57	0.3367
3/1/2022 10:58	0.3327
3/1/2022 10:59	0.3399
3/1/2022 11:00	0.3395
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PWGC	DATE:	3/2/22	DAY:	Wednesday
	ON-SITE:	0645 am	OFF-SITE:	0330 pm
	NYSDEC Project #:	C224332		
	PWGC Project #:	TOT2101		

DAILY FIELD ACTIVITY REPORT	
PROJECT:	737 4th Avenue Site
LOCATION:	731-747 4th Avenue, Brooklyn, New York 11232
WEATHER:	Partly Cloudy, 43-51° F, Wind West-Northwest
SITE SAFETY OFFICER:	Michael Pecoraro
ATTACHMENTS:	RI Sampling Plan, CAMP Readings, Well Gauge Data

SUMMARY OF SITE ACTIVITIES

PWGC mobilized to the site to perform the field work outlined in the Remedial Investigation Work Plan (RIWP) which included the following:

CAMP Oversight

- Upwind and downwind CAMP stations were set up and operated during instrusive work. No exceedances were observed throughout the day.

Geotechnical Drilling:

- AARCO Environmental Services utilized a truck mounted drill rig to collect soil cores to a depth of 70 feet (Soil boring ID: LB-9). Langan Engineering was onsite to oversee the drilling and collect soil samples. No significant odors or visible staining were observed during drilling activities.

Monitoring Well Development:

- A submersible pump was utilized to develop monitoring well PWGC-MW002, installed yesterday. A horiba was utilized to measure pH, temperature, conductivity, and turbidity. The well was purged until the water ran dry. Approximately one gallon (three well volumes) of water was purged.

Groundwater Monitoring Well Gauging:

- An interface probe was utilized to collect depth to product (if present), depth to water, and depth to bottom for each of the onsite monitoring wells. See attached for well gauging data

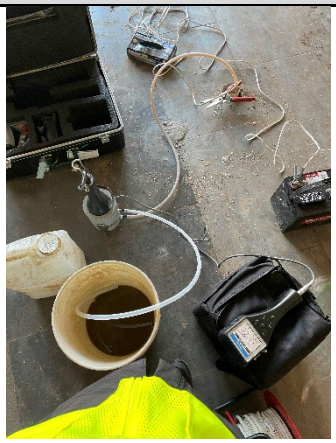
Site Survey:

- A survey scope was utilized to measure elevations of each soil boring, soil vapor sample point, and monitoring well onsite.

PREPARED BY	**REVIEWED BY**
PRINT NAME: Michael Pecoraro	PRINT NAME: Derek Ersbak

PWGC	DATE:	3/2/22	DAY:	Wednesday
	ON-SITE:	0645 am	OFF-SITE:	0330 pm
	NYSDEC Project #:	C224332		
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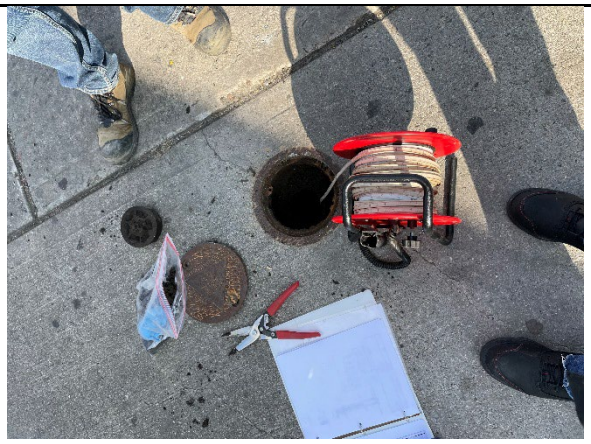
PHOTO LOG



View of well development.



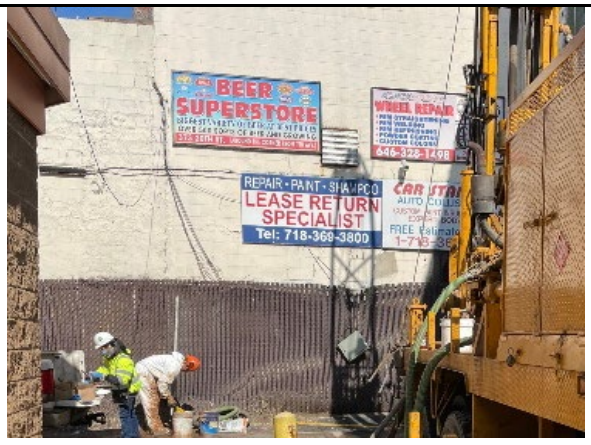
View of Horiba readings.



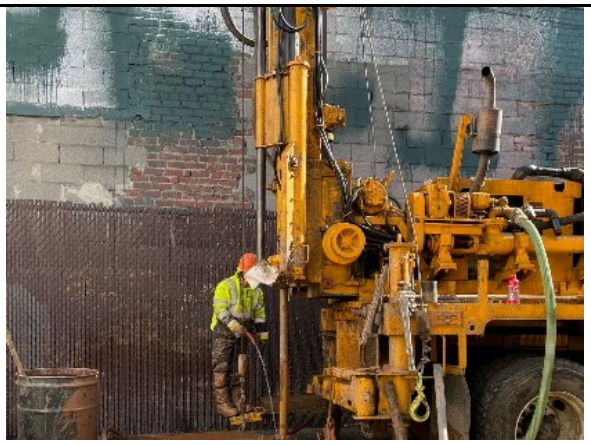
View of monitoring well gauging.



View of monitoring well.

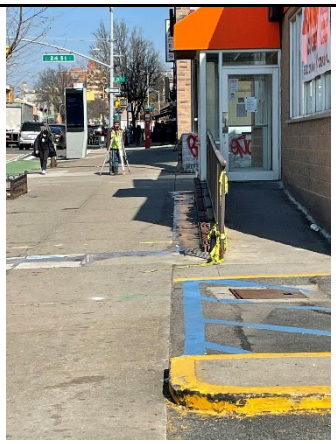


View of Langan collecting soil samples.



View of geotechnical drilling.

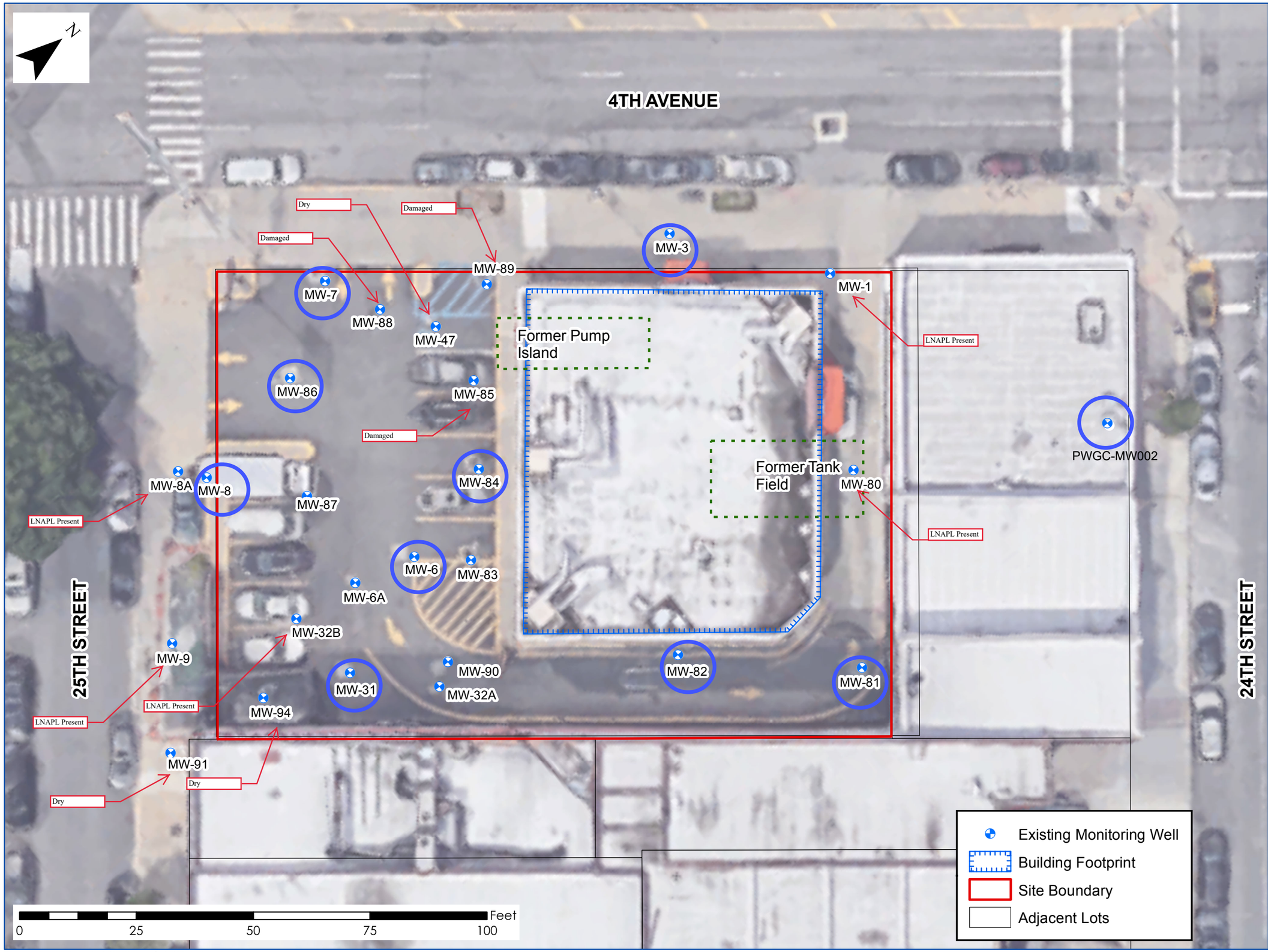
	DATE:	3/2/22	DAY:	Wednesday
	ON-SITE:	0645 am	OFF-SITE:	0330 pm
	NYSDEC Project #:	C224332		
	PWGC Project #:	TOT2101		



View of site surveying.



View of survey scope.



PWGC
Strategic Environmental and Engineering Solutions

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DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

Project:	TOT1802	Designed by:	LS
Date:	8/2/2018	Drawn by:	TS
Scale:	AS SHOWN	Approved by:	LS

SITE PLAN WITH EXISTING MONITORING WELL LOCATIONS

737-747 4TH AVE
BROOKLYN, NY

FIGURE NO:

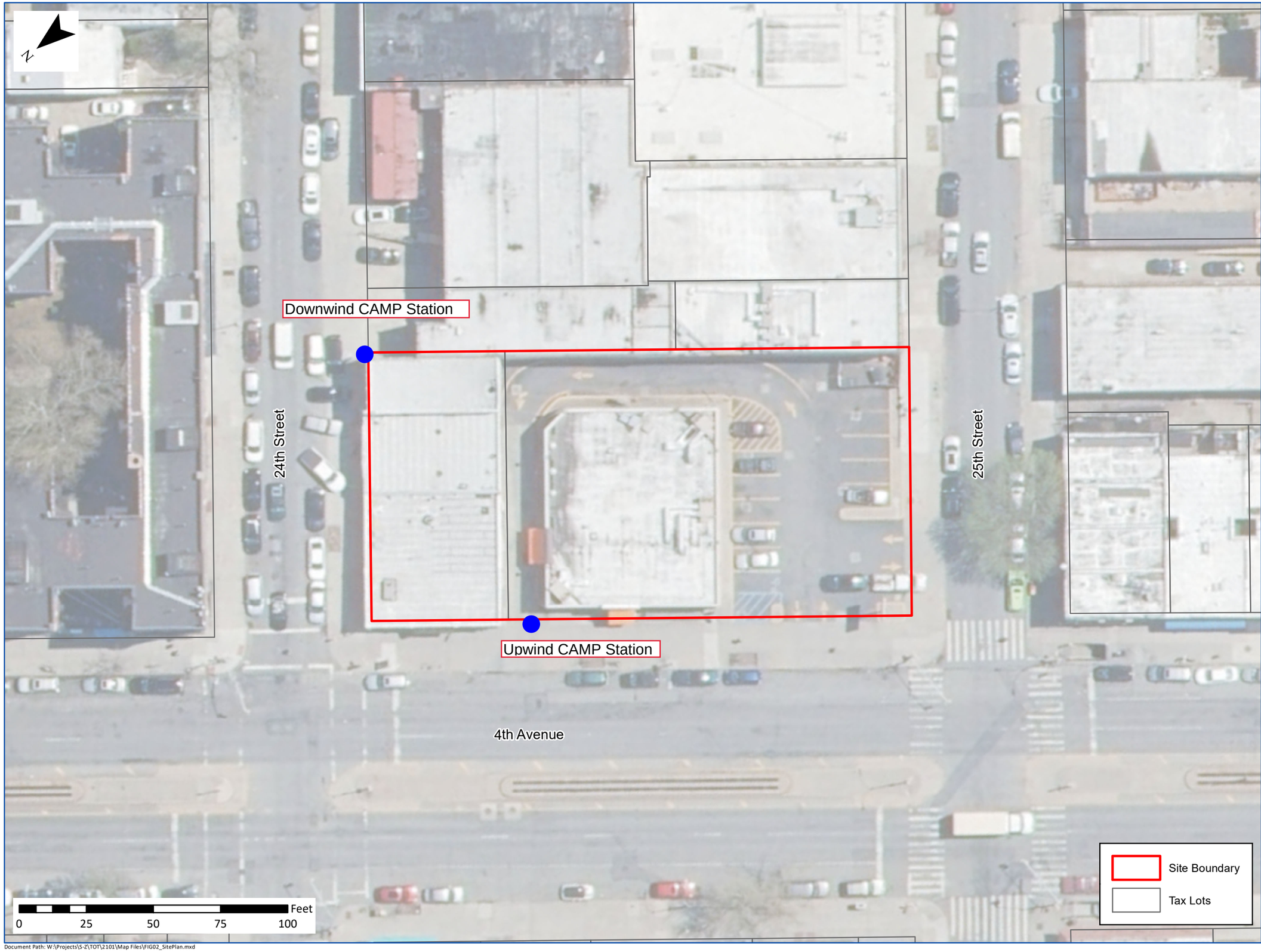
2

Document Path: W:\Projects\S-Z\TOT\1801\mapfiles\FIG02_SitePlan_v4.mxd

Monitoring Well Gauging Data
737 4th Avenue, Brooklyn, NY

Well ID	Depth to Product	Depth to Water	Depth to Bottom
MW-1	22.82	22.90	30.72
MW-31	NP	22.46	28.85
MW-31	NP	22.74	35.44
MW32A	NP	21.80	25.34
MW-32B	20.60	20.80	27.95
MW-47	NP	NP	23.12
MW-6	NP	20.56	33.75
MW-8	NP	20.05	30.73
MW-80	14.4	23.59	32.75
MW-81	NP	23.35	36.81
MW-82	NP	21.55	23.40
MW-83	NP	20.35	25.13
MW-84	NP	19.69	31.78
MW-85	Unable to gauge		
MW-86	NP	19.17	32.07
MW-87	NP	20.69	32.83
MW-88	Unable to gauge		
MW-89	Unable to gauge		
MW-8A	20.30	20.80	29.35
MW-9	21.51	21.53	28.33
MW-90	NP	21.14	32.91
MW-91	NP	NP	23.03
MW-94	NP	NP	20.44

NP: Not Present



Document Path: W:\Projects\S-Z\TOT\2101\Map Files\FIG02_SitePlan.mxd

PWGC
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DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

Project:	TOT2101	Designed by:	JL
Date:	3/29/2021	Drawn by:	UC
Scale:	AS SHOWN	Approved by:	JL

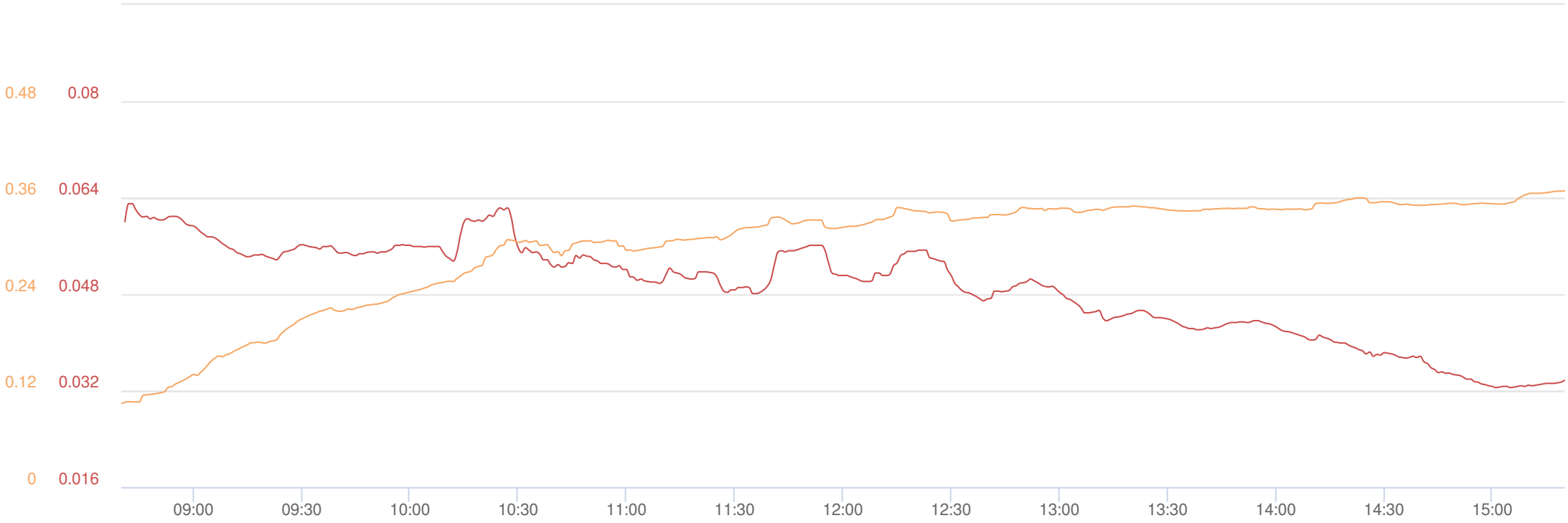
SITE PLAN

731-747 4th Ave
Brooklyn, NY

FIGURE NO:

2

03/02/2022 0:00:37 – 03/03/2022 0:00:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.0325	0.049	0.063

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0.104	0.2994	0.3681

Name TOT2101 UW (FA03927)
S/N 0B448132
Description (FA03927)
Location 746 4th Ave, Brooklyn, NY 11232, USA

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Device	TOT2101 - CAMP Station - Upwind	
Timestamp (America/New_York)	Mass Conc. Total mg/m³ AVG 15m (mg/m³)	VOC ppm AVG 15m (ppm)
3/2/2022 8:40		0.104
3/2/2022 8:41	0.06	0.1055
3/2/2022 8:42	0.063	0.1063
3/2/2022 8:43	0.063	0.106
3/2/2022 8:44	0.062	0.1058
3/2/2022 8:45	0.0612	0.106
3/2/2022 8:46	0.0608	0.114
3/2/2022 8:47	0.0609	0.1148
3/2/2022 8:48	0.0605	0.1153
3/2/2022 8:49	0.0607	0.1158
3/2/2022 8:50	0.0604	0.1166
3/2/2022 8:51	0.0603	0.1175
3/2/2022 8:52	0.0604	0.1188
3/2/2022 8:53	0.0608	0.1241
3/2/2022 8:54	0.0609	0.1251
3/2/2022 8:55	0.0609	0.1282
3/2/2022 8:56	0.0607	0.1303
3/2/2022 8:57	0.0602	0.1325
3/2/2022 8:58	0.0596	0.1348
3/2/2022 8:59	0.0594	0.1375
3/2/2022 9:00	0.0593	0.1401
3/2/2022 9:01	0.0589	0.139
3/2/2022 9:02	0.0583	0.1429
3/2/2022 9:03	0.0579	0.1469
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3/2/2022 9:05	0.0575	0.157
3/2/2022 9:06	0.0573	0.1606
3/2/2022 9:07	0.0569	0.1631
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3/2/2022 9:18	0.0545	0.1803
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3/2/2022 9:20	0.0543	0.1793
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3/2/2022 9:23	0.0537	0.1832
3/2/2022 9:24	0.0543	0.1893
3/2/2022 9:25	0.055	0.1935
3/2/2022 9:26	0.0551	0.1973
3/2/2022 9:27	0.0553	0.2001
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3/2/2022 9:29	0.056	0.2069

3/2/2022 9:30	0.0562	0.2092
3/2/2022 9:31	0.0561	0.2113
3/2/2022 9:32	0.0559	0.2135
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3/2/2022 9:55	0.0555	0.2349
3/2/2022 9:56	0.0561	0.2373
3/2/2022 9:57	0.0561	0.2395
3/2/2022 9:58	0.0562	0.2403
3/2/2022 9:59	0.0561	0.2416
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3/2/2022 10:06	0.0559	0.2515
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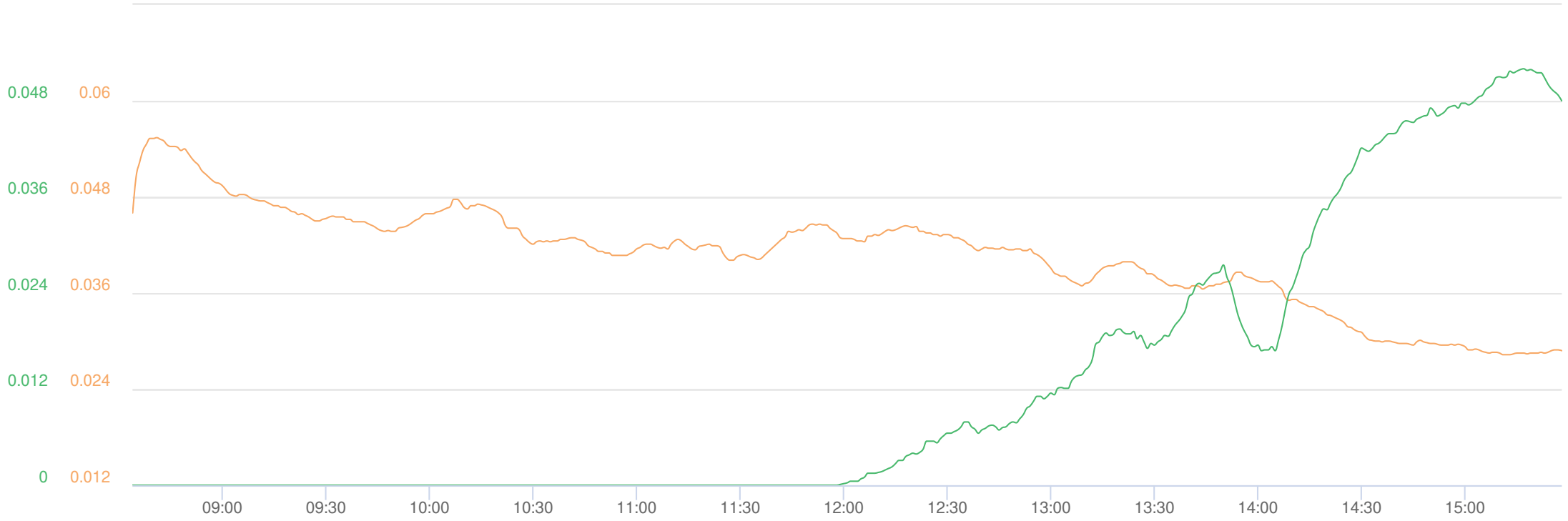
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3/2/2022 13:23	0.0453	0.3486
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3/2/2022 13:48	0.0433	0.3463
3/2/2022 13:49	0.0433	0.3467

3/2/2022 13:50	0.0434	0.3467
3/2/2022 13:51	0.0434	0.3467
3/2/2022 13:52	0.0433	0.3469
3/2/2022 13:53	0.0434	0.3485
3/2/2022 13:54	0.0436	0.3485
3/2/2022 13:55	0.0436	0.3465
3/2/2022 13:56	0.0434	0.3462
3/2/2022 13:57	0.0432	0.3459
3/2/2022 13:58	0.0431	0.3454
3/2/2022 13:59	0.0429	0.3457
3/2/2022 14:00	0.0426	0.3456
3/2/2022 14:01	0.0422	0.3452
3/2/2022 14:02	0.0419	0.3453
3/2/2022 14:03	0.0418	0.3458
3/2/2022 14:04	0.0417	0.3456
3/2/2022 14:05	0.0415	0.3457
3/2/2022 14:06	0.0413	0.3458
3/2/2022 14:07	0.0411	0.3459
3/2/2022 14:08	0.0409	0.3449
3/2/2022 14:09	0.0405	0.3454
3/2/2022 14:10	0.0404	0.3465
3/2/2022 14:11	0.0405	0.3525
3/2/2022 14:12	0.0412	0.3531
3/2/2022 14:13	0.0409	0.3533
3/2/2022 14:14	0.0407	0.3529
3/2/2022 14:15	0.0405	0.353
3/2/2022 14:16	0.0401	0.3535
3/2/2022 14:17	0.04	0.3541
3/2/2022 14:18	0.0399	0.3554
3/2/2022 14:19	0.0399	0.3568
3/2/2022 14:20	0.0396	0.3576
3/2/2022 14:21	0.0393	0.3581
3/2/2022 14:22	0.0391	0.3594
3/2/2022 14:23	0.0388	0.3597
3/2/2022 14:24	0.0386	0.3596
3/2/2022 14:25	0.0381	0.359
3/2/2022 14:26	0.0384	0.3538
3/2/2022 14:27	0.0377	0.3537
3/2/2022 14:28	0.038	0.3541
3/2/2022 14:29	0.0379	0.3548
3/2/2022 14:30	0.0383	0.3549
3/2/2022 14:31	0.0382	0.3549
3/2/2022 14:32	0.0381	0.3545
3/2/2022 14:33	0.0379	0.3531
3/2/2022 14:34	0.0376	0.3518
3/2/2022 14:35	0.0375	0.3513
3/2/2022 14:36	0.0374	0.352
3/2/2022 14:37	0.0375	0.3513
3/2/2022 14:38	0.0377	0.3508
3/2/2022 14:39	0.0375	0.3505
3/2/2022 14:40	0.0377	0.3506
3/2/2022 14:41	0.0368	0.3505

3/2/2022 14:42	0.0365	0.3509
3/2/2022 14:43	0.0358	0.3514
3/2/2022 14:44	0.0355	0.3514
3/2/2022 14:45	0.035	0.3518
3/2/2022 14:46	0.0351	0.3521
3/2/2022 14:47	0.0349	0.3525
3/2/2022 14:48	0.0349	0.3529
3/2/2022 14:49	0.0347	0.3531
3/2/2022 14:50	0.0346	0.3528
3/2/2022 14:51	0.0345	0.3517
3/2/2022 14:52	0.0342	0.3511
3/2/2022 14:53	0.0339	0.3515
3/2/2022 14:54	0.0339	0.3521
3/2/2022 14:55	0.0335	0.3525
3/2/2022 14:56	0.0334	0.3529
3/2/2022 14:57	0.0331	0.3531
3/2/2022 14:58	0.033	0.3529
3/2/2022 14:59	0.0328	0.3527
3/2/2022 15:00	0.0327	0.3525
3/2/2022 15:01	0.0325	0.3521
3/2/2022 15:02	0.0326	0.3521
3/2/2022 15:03	0.0327	0.3521
3/2/2022 15:04	0.0327	0.3529
3/2/2022 15:05	0.0325	0.3539
3/2/2022 15:06	0.0326	0.3547
3/2/2022 15:07	0.0327	0.3583
3/2/2022 15:08	0.0328	0.3611
3/2/2022 15:09	0.0327	0.3633
3/2/2022 15:10	0.0329	0.3649
3/2/2022 15:11	0.0328	0.3655
3/2/2022 15:12	0.0329	0.3654
3/2/2022 15:13	0.033	0.3654
3/2/2022 15:14	0.0331	0.3659
3/2/2022 15:15	0.0332	0.3662
3/2/2022 15:16	0.0332	0.3669
3/2/2022 15:17	0.0332	0.3676
3/2/2022 15:18	0.0333	0.3681
3/2/2022 15:19	0.0334	0.3681
3/2/2022 15:20	0.0337	0.3684

03/02/2022 0:00:51 – 03/03/2022 0:00:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.0283	0.0407	0.0554

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.0123	0.052

Name TOT2101 DW (FA03793)
S/N 0B427035
Description (FA03793)
Location 759 4th Ave, Brooklyn, NY 11232, USA

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Device	TOT2101 - CAMP Station - Downwind	
Timestamp (America/New_York)	Mass Conc. Total mg/m³ AVG 15m (mg/m³)	VOC ppm AVG 15m (ppm)
3/2/2022 8:34	0.046	0
3/2/2022 8:35	0.0505	0
3/2/2022 8:36	0.0523	0
3/2/2022 8:37	0.0538	0
3/2/2022 8:38	0.0546	0
3/2/2022 8:39	0.0553	0
3/2/2022 8:40	0.0553	0
3/2/2022 8:41	0.0554	0
3/2/2022 8:42	0.0552	0
3/2/2022 8:43	0.055	0
3/2/2022 8:44	0.0545	0
3/2/2022 8:45	0.0543	0
3/2/2022 8:46	0.0543	0
3/2/2022 8:47	0.0542	0
3/2/2022 8:48	0.0538	0
3/2/2022 8:49	0.054	0
3/2/2022 8:50	0.0535	0
3/2/2022 8:51	0.0529	0
3/2/2022 8:52	0.0524	0
3/2/2022 8:53	0.052	0
3/2/2022 8:54	0.0513	0
3/2/2022 8:55	0.0509	0
3/2/2022 8:56	0.0505	0
3/2/2022 8:57	0.0501	0
3/2/2022 8:58	0.0498	0
3/2/2022 8:59	0.0497	0
3/2/2022 9:00	0.0494	0
3/2/2022 9:01	0.0489	0
3/2/2022 9:02	0.0484	0
3/2/2022 9:03	0.0482	0
3/2/2022 9:04	0.0481	0
3/2/2022 9:05	0.0483	0
3/2/2022 9:06	0.0483	0
3/2/2022 9:07	0.0482	0
3/2/2022 9:08	0.0479	0
3/2/2022 9:09	0.0477	0
3/2/2022 9:10	0.0476	0
3/2/2022 9:11	0.0475	0
3/2/2022 9:12	0.0475	0
3/2/2022 9:13	0.0473	0
3/2/2022 9:14	0.0471	0
3/2/2022 9:15	0.0469	0
3/2/2022 9:16	0.0469	0
3/2/2022 9:17	0.0467	0
3/2/2022 9:18	0.0467	0
3/2/2022 9:19	0.0465	0
3/2/2022 9:20	0.0462	0
3/2/2022 9:21	0.0461	0
3/2/2022 9:22	0.0458	0

3/2/2022 9:23	0.0459	0
3/2/2022 9:24	0.0457	0
3/2/2022 9:25	0.0455	0
3/2/2022 9:26	0.0452	0
3/2/2022 9:27	0.045	0
3/2/2022 9:28	0.045	0
3/2/2022 9:29	0.0452	0
3/2/2022 9:30	0.0453	0
3/2/2022 9:31	0.0455	0
3/2/2022 9:32	0.0456	0
3/2/2022 9:33	0.0455	0
3/2/2022 9:34	0.0455	0
3/2/2022 9:35	0.0455	0
3/2/2022 9:36	0.0452	0
3/2/2022 9:37	0.0452	0
3/2/2022 9:38	0.0449	0
3/2/2022 9:39	0.0449	0
3/2/2022 9:40	0.0449	0
3/2/2022 9:41	0.0449	0
3/2/2022 9:42	0.0447	0
3/2/2022 9:43	0.0445	0
3/2/2022 9:44	0.0443	0
3/2/2022 9:45	0.044	0
3/2/2022 9:46	0.0438	0
3/2/2022 9:47	0.0437	0
3/2/2022 9:48	0.0438	0
3/2/2022 9:49	0.0437	0
3/2/2022 9:50	0.0437	0
3/2/2022 9:51	0.0441	0
3/2/2022 9:52	0.0442	0
3/2/2022 9:53	0.0443	0
3/2/2022 9:54	0.0445	0
3/2/2022 9:55	0.0448	0
3/2/2022 9:56	0.0451	0
3/2/2022 9:57	0.0453	0
3/2/2022 9:58	0.0457	0
3/2/2022 9:59	0.0459	0
3/2/2022 10:00	0.0459	0
3/2/2022 10:01	0.0459	0
3/2/2022 10:02	0.0461	0
3/2/2022 10:03	0.0462	0
3/2/2022 10:04	0.0464	0
3/2/2022 10:05	0.0466	0
3/2/2022 10:06	0.0468	0
3/2/2022 10:07	0.0477	0
3/2/2022 10:08	0.0477	0
3/2/2022 10:09	0.0473	0
3/2/2022 10:10	0.0467	0
3/2/2022 10:11	0.0465	0
3/2/2022 10:12	0.0469	0
3/2/2022 10:13	0.0469	0

3/2/2022 10:14	0.0471	0
3/2/2022 10:15	0.047	0
3/2/2022 10:16	0.0469	0
3/2/2022 10:17	0.0467	0
3/2/2022 10:18	0.0465	0
3/2/2022 10:19	0.0463	0
3/2/2022 10:20	0.046	0
3/2/2022 10:21	0.0455	0
3/2/2022 10:22	0.0444	0
3/2/2022 10:23	0.0441	0
3/2/2022 10:24	0.0441	0
3/2/2022 10:25	0.0441	0
3/2/2022 10:26	0.0439	0
3/2/2022 10:27	0.0431	0
3/2/2022 10:28	0.0427	0
3/2/2022 10:29	0.0423	0
3/2/2022 10:30	0.0421	0
3/2/2022 10:31	0.0424	0
3/2/2022 10:32	0.0425	0
3/2/2022 10:33	0.0424	0
3/2/2022 10:34	0.0425	0
3/2/2022 10:35	0.0424	0
3/2/2022 10:36	0.0425	0
3/2/2022 10:37	0.0425	0
3/2/2022 10:38	0.0427	0
3/2/2022 10:39	0.0427	0
3/2/2022 10:40	0.0428	0
3/2/2022 10:41	0.0429	0
3/2/2022 10:42	0.0429	0
3/2/2022 10:43	0.0427	0
3/2/2022 10:44	0.0426	0
3/2/2022 10:45	0.0424	0
3/2/2022 10:46	0.0419	0
3/2/2022 10:47	0.0417	0
3/2/2022 10:48	0.0415	0
3/2/2022 10:49	0.0412	0
3/2/2022 10:50	0.0412	0
3/2/2022 10:51	0.041	0
3/2/2022 10:52	0.041	0
3/2/2022 10:53	0.0407	0
3/2/2022 10:54	0.0407	0
3/2/2022 10:55	0.0407	0
3/2/2022 10:56	0.0407	0
3/2/2022 10:57	0.0407	0
3/2/2022 10:58	0.0409	0
3/2/2022 10:59	0.0411	0
3/2/2022 11:00	0.0415	0
3/2/2022 11:01	0.0417	0
3/2/2022 11:02	0.042	0
3/2/2022 11:03	0.0421	0
3/2/2022 11:04	0.0421	0

3/2/2022 11:05	0.0419	0
3/2/2022 11:06	0.0417	0
3/2/2022 11:07	0.0416	0
3/2/2022 11:08	0.0417	0
3/2/2022 11:09	0.0415	0
3/2/2022 11:10	0.0421	0
3/2/2022 11:11	0.0425	0
3/2/2022 11:12	0.0427	0
3/2/2022 11:13	0.0425	0
3/2/2022 11:14	0.0421	0
3/2/2022 11:15	0.0418	0
3/2/2022 11:16	0.0415	0
3/2/2022 11:17	0.0414	0
3/2/2022 11:18	0.0418	0
3/2/2022 11:19	0.0419	0
3/2/2022 11:20	0.042	0
3/2/2022 11:21	0.0421	0
3/2/2022 11:22	0.0419	0
3/2/2022 11:23	0.0419	0
3/2/2022 11:24	0.0418	0
3/2/2022 11:25	0.041	0
3/2/2022 11:26	0.0404	0
3/2/2022 11:27	0.0401	0
3/2/2022 11:28	0.0401	0
3/2/2022 11:29	0.0405	0
3/2/2022 11:30	0.0407	0
3/2/2022 11:31	0.0408	0
3/2/2022 11:32	0.0407	0
3/2/2022 11:33	0.0405	0
3/2/2022 11:34	0.0404	0
3/2/2022 11:35	0.0402	0
3/2/2022 11:36	0.0403	0
3/2/2022 11:37	0.0407	0
3/2/2022 11:38	0.0411	0
3/2/2022 11:39	0.0415	0
3/2/2022 11:40	0.0419	0
3/2/2022 11:41	0.0423	0
3/2/2022 11:42	0.0427	0
3/2/2022 11:43	0.043	0
3/2/2022 11:44	0.0437	0
3/2/2022 11:45	0.0436	0
3/2/2022 11:46	0.0437	0
3/2/2022 11:47	0.0439	0
3/2/2022 11:48	0.0438	0
3/2/2022 11:49	0.0441	0
3/2/2022 11:50	0.0445	0
3/2/2022 11:51	0.0446	0
3/2/2022 11:52	0.0445	0
3/2/2022 11:53	0.0446	0
3/2/2022 11:54	0.0445	0
3/2/2022 11:55	0.0445	0

3/2/2022 11:56	0.0441	0
3/2/2022 11:57	0.0438	0
3/2/2022 11:58	0.0435	0
3/2/2022 11:59	0.0429	0.0001
3/2/2022 12:00	0.0428	0.0002
3/2/2022 12:01	0.0428	0.0003
3/2/2022 12:02	0.0428	0.0005
3/2/2022 12:03	0.0427	0.0005
3/2/2022 12:04	0.0425	0.0005
3/2/2022 12:05	0.0425	0.0008
3/2/2022 12:06	0.0424	0.001
3/2/2022 12:07	0.0431	0.0015
3/2/2022 12:08	0.0431	0.0015
3/2/2022 12:09	0.0433	0.0015
3/2/2022 12:10	0.0432	0.0016
3/2/2022 12:11	0.0434	0.0017
3/2/2022 12:12	0.0437	0.0019
3/2/2022 12:13	0.0439	0.0021
3/2/2022 12:14	0.0438	0.0023
3/2/2022 12:15	0.0439	0.0027
3/2/2022 12:16	0.0441	0.0031
3/2/2022 12:17	0.0443	0.0031
3/2/2022 12:18	0.0444	0.0036
3/2/2022 12:19	0.0443	0.0038
3/2/2022 12:20	0.0442	0.004
3/2/2022 12:21	0.0443	0.0039
3/2/2022 12:22	0.0437	0.0041
3/2/2022 12:23	0.0437	0.0045
3/2/2022 12:24	0.0435	0.0055
3/2/2022 12:25	0.0435	0.0055
3/2/2022 12:26	0.0433	0.0055
3/2/2022 12:27	0.0433	0.0053
3/2/2022 12:28	0.0431	0.0058
3/2/2022 12:29	0.0433	0.0062
3/2/2022 12:30	0.0433	0.0065
3/2/2022 12:31	0.0432	0.0065
3/2/2022 12:32	0.0429	0.0067
3/2/2022 12:33	0.0429	0.0069
3/2/2022 12:34	0.0427	0.0073
3/2/2022 12:35	0.0425	0.0079
3/2/2022 12:36	0.0421	0.0079
3/2/2022 12:37	0.0419	0.0073
3/2/2022 12:38	0.0415	0.007
3/2/2022 12:39	0.0413	0.0065
3/2/2022 12:40	0.0415	0.0069
3/2/2022 12:41	0.0417	0.0071
3/2/2022 12:42	0.0416	0.0074
3/2/2022 12:43	0.0416	0.0075
3/2/2022 12:44	0.0415	0.0073
3/2/2022 12:45	0.0415	0.0069
3/2/2022 12:46	0.0417	0.0072

3/2/2022 12:47	0.0415	0.0073
3/2/2022 12:48	0.0414	0.0077
3/2/2022 12:49	0.0414	0.0079
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3/2/2022 12:52	0.0413	0.0088
3/2/2022 12:53	0.0413	0.0096
3/2/2022 12:54	0.0415	0.0099
3/2/2022 12:55	0.041	0.0105
3/2/2022 12:56	0.0408	0.0111
3/2/2022 12:57	0.0405	0.0111
3/2/2022 12:58	0.0401	0.0108
3/2/2022 12:59	0.0396	0.0111
3/2/2022 13:00	0.0391	0.0115
3/2/2022 13:01	0.0385	0.0113
3/2/2022 13:02	0.0383	0.0121
3/2/2022 13:03	0.0381	0.0122
3/2/2022 13:04	0.0381	0.0121
3/2/2022 13:05	0.0378	0.0121
3/2/2022 13:06	0.0375	0.013
3/2/2022 13:07	0.0373	0.0135
3/2/2022 13:08	0.0371	0.0137
3/2/2022 13:09	0.0369	0.0138
3/2/2022 13:10	0.0372	0.0144
3/2/2022 13:11	0.0373	0.0148
3/2/2022 13:12	0.0377	0.0157
3/2/2022 13:13	0.0383	0.0176
3/2/2022 13:14	0.0387	0.0179
3/2/2022 13:15	0.0391	0.0186
3/2/2022 13:16	0.0393	0.019
3/2/2022 13:17	0.0394	0.0187
3/2/2022 13:18	0.0394	0.0188
3/2/2022 13:19	0.0396	0.0194
3/2/2022 13:20	0.0397	0.0195
3/2/2022 13:21	0.0399	0.0191
3/2/2022 13:22	0.0399	0.0189
3/2/2022 13:23	0.0399	0.0189
3/2/2022 13:24	0.0398	0.0192
3/2/2022 13:25	0.0394	0.0183
3/2/2022 13:26	0.0391	0.0187
3/2/2022 13:27	0.0389	0.0179
3/2/2022 13:28	0.0384	0.0171
3/2/2022 13:29	0.0384	0.0177
3/2/2022 13:30	0.0382	0.0175
3/2/2022 13:31	0.0378	0.0179
3/2/2022 13:32	0.0376	0.0182
3/2/2022 13:33	0.0373	0.0187
3/2/2022 13:34	0.037	0.0186
3/2/2022 13:35	0.0369	0.0193
3/2/2022 13:36	0.037	0.02
3/2/2022 13:37	0.0369	0.0205

3/2/2022 13:38	0.0368	0.0211
3/2/2022 13:39	0.0366	0.0219
3/2/2022 13:40	0.0366	0.0235
3/2/2022 13:41	0.0369	0.0239
3/2/2022 13:42	0.0369	0.0249
3/2/2022 13:43	0.0368	0.0252
3/2/2022 13:44	0.0365	0.025
3/2/2022 13:45	0.0367	0.0255
3/2/2022 13:46	0.0369	0.026
3/2/2022 13:47	0.0369	0.0264
3/2/2022 13:48	0.0371	0.0265
3/2/2022 13:49	0.0371	0.0267
3/2/2022 13:50	0.0373	0.0275
3/2/2022 13:51	0.0374	0.026
3/2/2022 13:52	0.0375	0.025
3/2/2022 13:53	0.0383	0.0234
3/2/2022 13:54	0.0386	0.0216
3/2/2022 13:55	0.0386	0.0203
3/2/2022 13:56	0.0382	0.0193
3/2/2022 13:57	0.038	0.0185
3/2/2022 13:58	0.0379	0.0175
3/2/2022 13:59	0.0377	0.0173
3/2/2022 14:00	0.0375	0.0175
3/2/2022 14:01	0.0374	0.0168
3/2/2022 14:02	0.0374	0.0169
3/2/2022 14:03	0.0374	0.0169
3/2/2022 14:04	0.0375	0.0173
3/2/2022 14:05	0.0372	0.0168
3/2/2022 14:06	0.0368	0.0182
3/2/2022 14:07	0.0364	0.0199
3/2/2022 14:08	0.0354	0.0221
3/2/2022 14:09	0.0351	0.0239
3/2/2022 14:10	0.0352	0.0247
3/2/2022 14:11	0.0352	0.0259
3/2/2022 14:12	0.0349	0.0272
3/2/2022 14:13	0.0347	0.0287
3/2/2022 14:14	0.0345	0.0294
3/2/2022 14:15	0.0343	0.0299
3/2/2022 14:16	0.0343	0.0316
3/2/2022 14:17	0.0341	0.0328
3/2/2022 14:18	0.0339	0.0338
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3/2/2022 14:25	0.0323	0.0381
3/2/2022 14:26	0.0318	0.0387
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3/2/2022 14:28	0.0314	0.04

3/2/2022 14:29	0.0312	0.0411
3/2/2022 14:30	0.0311	0.0421
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3/2/2022 14:32	0.0302	0.0417
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3/2/2022 14:40	0.0298	0.044
3/2/2022 14:41	0.0297	0.0447
3/2/2022 14:42	0.0297	0.0453
3/2/2022 14:43	0.0297	0.0455
3/2/2022 14:44	0.0296	0.0454
3/2/2022 14:45	0.0295	0.0453
3/2/2022 14:46	0.0299	0.0457
3/2/2022 14:47	0.0301	0.0459
3/2/2022 14:48	0.0299	0.0461
3/2/2022 14:49	0.0298	0.0462
3/2/2022 14:50	0.0297	0.0471
3/2/2022 14:51	0.0297	0.0467
3/2/2022 14:52	0.0296	0.0461
3/2/2022 14:53	0.0295	0.0463
3/2/2022 14:54	0.0295	0.0466
3/2/2022 14:55	0.0295	0.0471
3/2/2022 14:56	0.0296	0.0473
3/2/2022 14:57	0.0295	0.0474
3/2/2022 14:58	0.0296	0.0471
3/2/2022 14:59	0.0295	0.0477
3/2/2022 15:00	0.0293	0.0477
3/2/2022 15:01	0.0289	0.0475
3/2/2022 15:02	0.0289	0.0477
3/2/2022 15:03	0.029	0.0481
3/2/2022 15:04	0.0289	0.0485
3/2/2022 15:05	0.0287	0.0487
3/2/2022 15:06	0.0286	0.0494
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3/2/2022 15:10	0.0285	0.051
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3/2/2022 15:12	0.0283	0.051
3/2/2022 15:13	0.0283	0.0517
3/2/2022 15:14	0.0284	0.0515
3/2/2022 15:15	0.0285	0.0517
3/2/2022 15:16	0.0285	0.0519
3/2/2022 15:17	0.0285	0.052
3/2/2022 15:18	0.0284	0.0518
3/2/2022 15:19	0.0285	0.0519

3/2/2022 15:20	0.0285	0.0517
3/2/2022 15:21	0.0285	0.0515
3/2/2022 15:22	0.0286	0.0515
3/2/2022 15:23	0.0285	0.0509
3/2/2022 15:24	0.0286	0.0501
3/2/2022 15:25	0.0288	0.0495
3/2/2022 15:26	0.0289	0.0491
3/2/2022 15:27	0.0289	0.0487
3/2/2022 15:28	0.0288	0.048

PWGC	DATE:	3/3/22	DAY:	Thursday
	ON-SITE:	0700 am	OFF-SITE:	1620 pm
	NYSDEC Project #:	C224332		
	PWGC Project #:	TOT2101		

DAILY FIELD ACTIVITY REPORT	
PROJECT:	737 4th Avenue Site
LOCATION:	731-747 4th Avenue, Brooklyn, New York 11232
WEATHER:	Raining, 36-46° F, Wind west
SITE SAFETY OFFICER:	William Hamilton
ATTACHMENTS:	Langan Boring Site Plan, CAMP Readings

SUMMARY OF SITE ACTIVITIES

Langan and PWGC onsite to oversee installation of geotechnical drilling.

- Aarco Environmental finished drilling LB-6 to 100 feet while Langan preformed geothechnical soil sampling.
- CAMP was preformed with ecorental station dust tracks and PID mini Rae Lite. No exceedencies detected.

PREPARED BY	**REVIEWED BY**
PRINT NAME: William Hamilton	PRINT NAME: Derek Ersbak, PG

PWGC	DATE:	3/3/22	DAY:	Thursday
	ON-SITE:	0700 am	OFF-SITE:	1620 pm
	NYSDEC Project #:	C224332		
	PWGC Project #:	TOT2101		

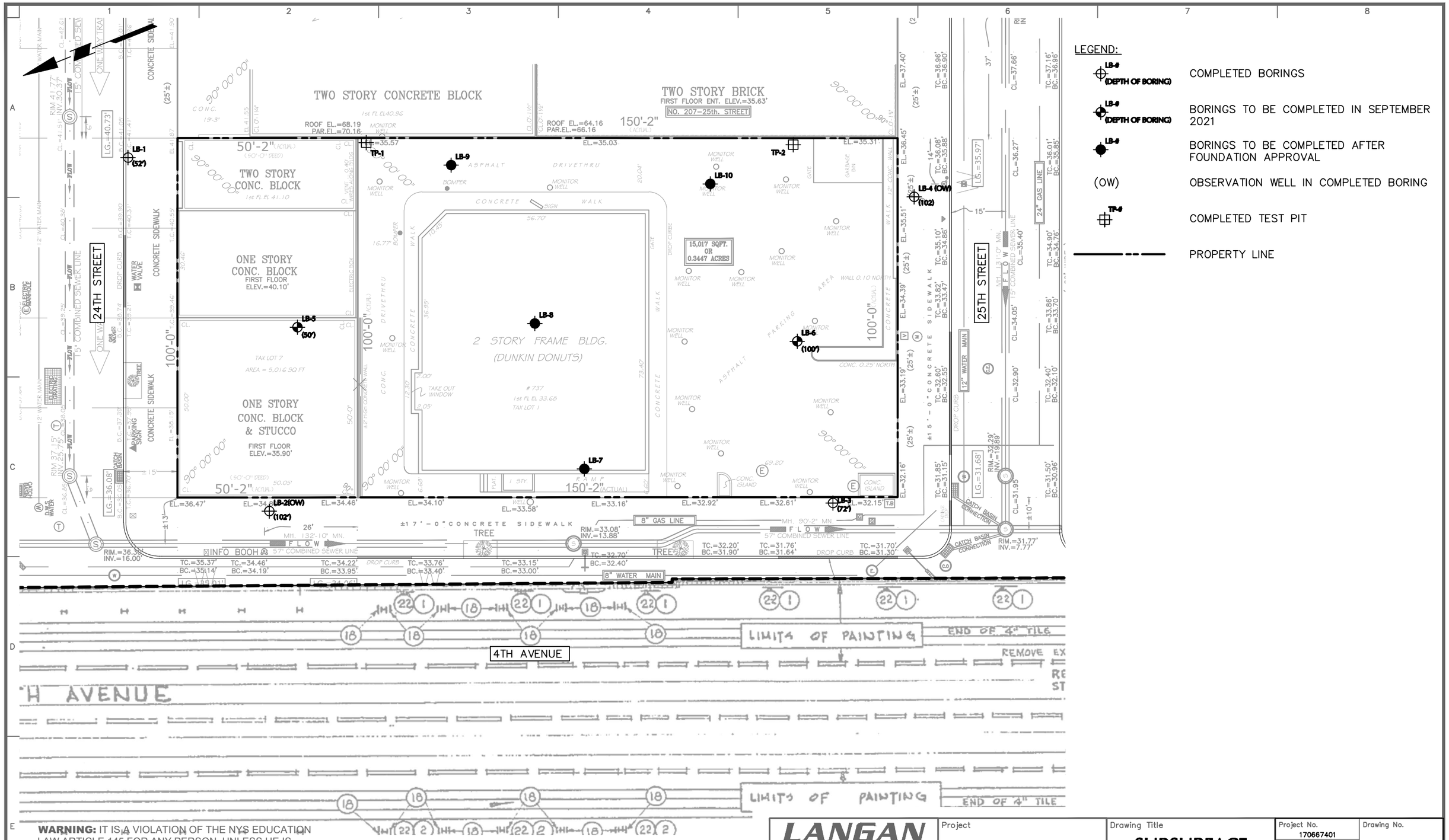
PHOTO LOG



View of LB-6 soil sample.



View of geoprobe at LB-6.

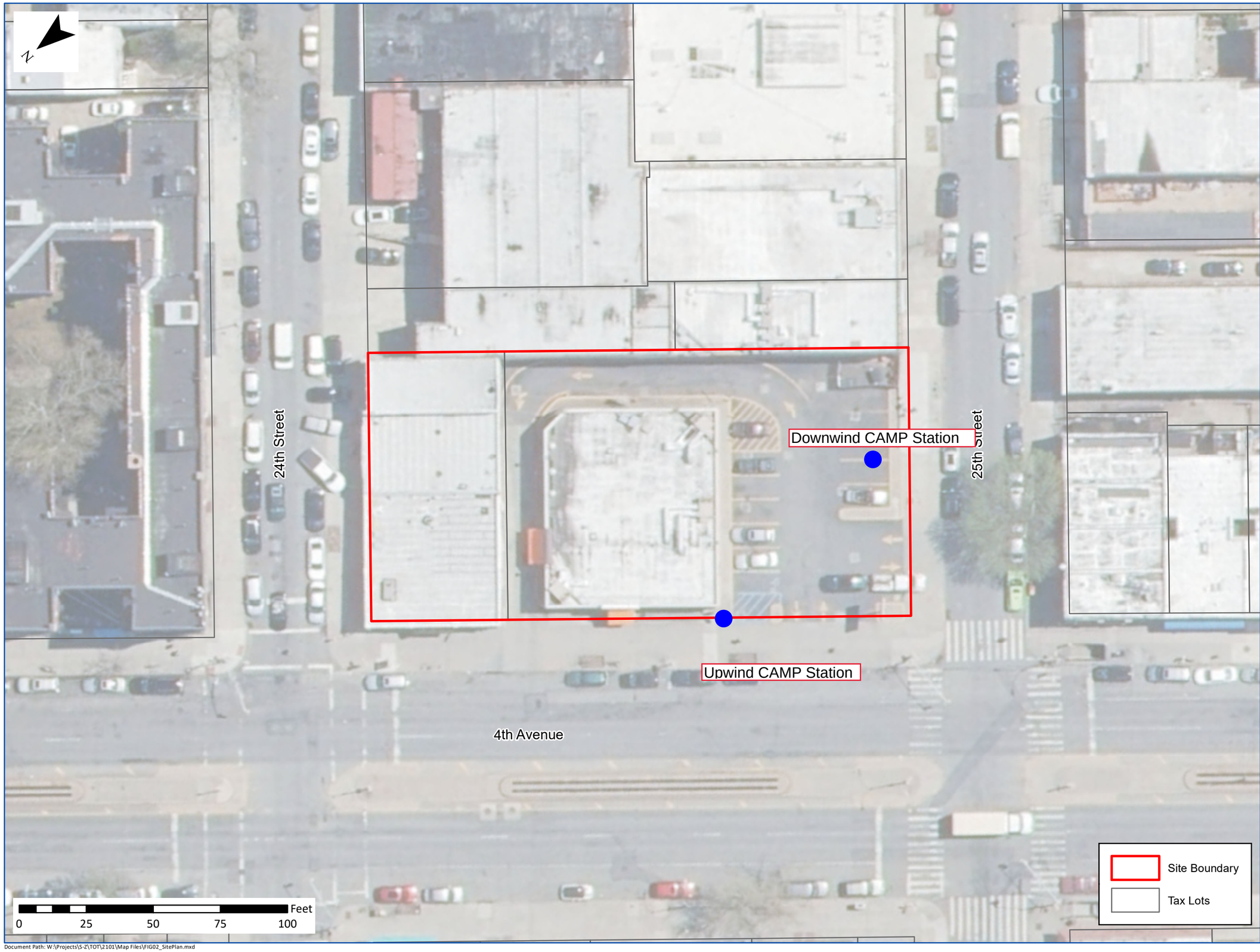


LANGAN
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New York, NY 10001
T: 212.479.5400 F: 212.479.5444 www.langan.com

Project	737 4TH AVENUE BLOCK No. 652 LOT No. 1, 7 BROOKLYN NEW YORK
Drawing Title	SUBSURFACE INVESTIGATION PLAN
Project No.	170667401
Date	08/17/2021
Drawn By	EK
Checked By	VV
Drawing No.	1
Sheet	1 of 1

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Filename: \\langan.com\data\NY\data4\170667401\Project Data\CAD\01\SheetFiles\Geotechnical\170667401-BI001-0102.dwg Date: 8/17/2021 Time: 17:51 User: ekyriacou Style Table: Langan.stb Layout: BLP



Document Path: W:\Projects\S-Z\TOT\2101\Map Files\FIG02_SitePlan.mxd

PWGC
CLIENT DRIVEN SOLUTIONS
P.W. Grosser Consulting Engineer & Hydrogeologist, PC
630 Johnson Ave., Suite 7
Bohemia, NY 11716
Ph: 631-589-6353 • Fax: 631-589-8705
pwgc.info@pwgrosser.com

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DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

Project:	TOT2101	Designed by:	JL
Date:	3/29/2021	Drawn by:	UC
Scale:	AS SHOWN	Approved by:	JL

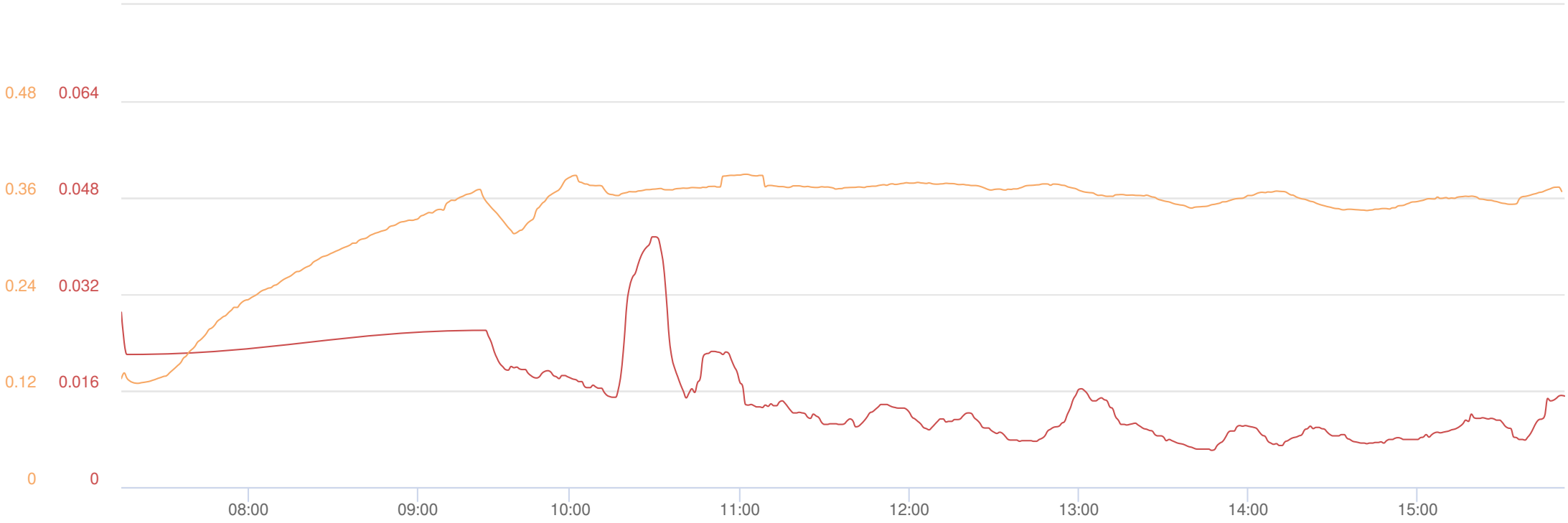
SITE PLAN

731-747 4th Ave
Brooklyn, NY

FIGURE NO:

2

03/03/2022 0:00:24 – 03/04/2022 0:00:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.0061	0.0131	0.0415

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0.1291	0.3379	0.3891

Name	TOT2101 UW (FA03927)
S/N	0B448132
Description	(FA03927)
Location	213 25th St, Brooklyn, NY 11232, USA

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Device	TOT2101 - CAMP Station - Upwind	
Timestamp (America/New_York)	Mass Conc. Total mg/m³ AVG 15m (mg/m³)	VOC ppm AVG 15m (ppm)
3/3/2022 7:14	0.029	0.135
3/3/2022 7:15	0.024	0.142
3/3/2022 7:16	0.022	0.1353
3/3/2022 7:17	0.022	0.132
3/3/2022 7:18		0.1302
3/3/2022 7:19		0.1293
3/3/2022 7:20		0.1291
3/3/2022 7:21		0.1298
3/3/2022 7:22		0.1303
3/3/2022 7:23		0.1309
3/3/2022 7:24		0.1316
3/3/2022 7:25		0.1328
3/3/2022 7:26		0.1339
3/3/2022 7:27		0.1353
3/3/2022 7:28		0.1364
3/3/2022 7:29		0.1377
3/3/2022 7:30		0.1385
3/3/2022 7:31		0.1419
3/3/2022 7:32		0.145
3/3/2022 7:33		0.1481
3/3/2022 7:34		0.1514
3/3/2022 7:35		0.1547
3/3/2022 7:36		0.1604
3/3/2022 7:37		0.1632
3/3/2022 7:38		0.1681
3/3/2022 7:39		0.1713
3/3/2022 7:40		0.1748
3/3/2022 7:41		0.1803
3/3/2022 7:42		0.1831
3/3/2022 7:43		0.1865
3/3/2022 7:44		0.1906
3/3/2022 7:45		0.1959
3/3/2022 7:46		0.1979
3/3/2022 7:47		0.2013
3/3/2022 7:48		0.2063
3/3/2022 7:49		0.2089
3/3/2022 7:50		0.2118
3/3/2022 7:51		0.2135
3/3/2022 7:52		0.2172
3/3/2022 7:54		0.2202
3/3/2022 7:55		0.2236
3/3/2022 7:56		0.2235
3/3/2022 7:57		0.2275
3/3/2022 7:58		0.2307
3/3/2022 7:59		0.2325
3/3/2022 8:00		0.2333
3/3/2022 8:01		0.2357
3/3/2022 8:02		0.2376
3/3/2022 8:03		0.2396

3/3/2022 8:04	0.2424
3/3/2022 8:05	0.2446
3/3/2022 8:06	0.2458
3/3/2022 8:07	0.2474
3/3/2022 8:08	0.2481
3/3/2022 8:09	0.2507
3/3/2022 8:10	0.2518
3/3/2022 8:11	0.2545
3/3/2022 8:12	0.2572
3/3/2022 8:13	0.2593
3/3/2022 8:14	0.261
3/3/2022 8:15	0.2628
3/3/2022 8:16	0.2655
3/3/2022 8:17	0.2679
3/3/2022 8:18	0.2684
3/3/2022 8:19	0.2705
3/3/2022 8:20	0.2728
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3/3/2022 8:22	0.2762
3/3/2022 8:23	0.2799
3/3/2022 8:24	0.2819
3/3/2022 8:25	0.2839
3/3/2022 8:26	0.2862
3/3/2022 8:27	0.2873
3/3/2022 8:28	0.2884
3/3/2022 8:29	0.2903
3/3/2022 8:30	0.2918
3/3/2022 8:31	0.2935
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3/3/2022 8:34	0.2982
3/3/2022 8:35	0.2995
3/3/2022 8:36	0.3012
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3/3/2022 8:38	0.3035
3/3/2022 8:39	0.3065
3/3/2022 8:40	0.3083
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3/3/2022 9:14		0.3549
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3/3/2022 9:45	0.0189	0.3289
3/3/2022 9:46	0.0185	0.3315
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3/3/2022 9:49	0.0183	0.3483
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3/3/2022 9:52	0.0193	0.3607
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3/3/2022 11:32	0.0105	0.3728
3/3/2022 11:33	0.0105	0.3721

3/3/2022 11:34	0.0105	0.3707
3/3/2022 11:35	0.0104	0.3712
3/3/2022 11:36	0.0104	0.3713
3/3/2022 11:37	0.0105	0.3723
3/3/2022 11:38	0.011	0.3725
3/3/2022 11:39	0.0113	0.3727
3/3/2022 11:40	0.011	0.3728
3/3/2022 11:41	0.01	0.3729
3/3/2022 11:42	0.0101	0.3733
3/3/2022 11:43	0.0105	0.3731
3/3/2022 11:44	0.011	0.3727
3/3/2022 11:45	0.0116	0.3737
3/3/2022 11:46	0.0123	0.3739
3/3/2022 11:47	0.0125	0.3743
3/3/2022 11:48	0.0129	0.3743
3/3/2022 11:49	0.0133	0.3751
3/3/2022 11:50	0.0137	0.3757
3/3/2022 11:51	0.0137	0.3761
3/3/2022 11:52	0.0137	0.3755
3/3/2022 11:53	0.0135	0.3767
3/3/2022 11:54	0.0133	0.3772
3/3/2022 11:55	0.0132	0.3765
3/3/2022 11:56	0.0131	0.3768
3/3/2022 11:57	0.0131	0.3775
3/3/2022 11:58	0.0131	0.3779
3/3/2022 11:59	0.0129	0.3786
3/3/2022 12:00	0.0124	0.3781
3/3/2022 12:01	0.0116	0.3781
3/3/2022 12:02	0.0113	0.3783
3/3/2022 12:03	0.0109	0.379
3/3/2022 12:04	0.0105	0.3784
3/3/2022 12:05	0.0099	0.3781
3/3/2022 12:06	0.0097	0.3777
3/3/2022 12:07	0.0095	0.3783
3/3/2022 12:08	0.0099	0.3774
3/3/2022 12:09	0.0104	0.3769
3/3/2022 12:10	0.0109	0.3768
3/3/2022 12:11	0.0113	0.3771
3/3/2022 12:12	0.0113	0.3773
3/3/2022 12:13	0.0108	0.3779
3/3/2022 12:14	0.0109	0.3776
3/3/2022 12:15	0.0109	0.3775
3/3/2022 12:16	0.0112	0.3773
3/3/2022 12:17	0.0112	0.3765
3/3/2022 12:18	0.0113	0.3763
3/3/2022 12:19	0.0118	0.3765
3/3/2022 12:20	0.0122	0.3759
3/3/2022 12:21	0.0123	0.3757
3/3/2022 12:22	0.0122	0.3751
3/3/2022 12:23	0.0115	0.3751
3/3/2022 12:24	0.0111	0.3749

3/3/2022 12:25	0.0106	0.3741
3/3/2022 12:26	0.0099	0.3729
3/3/2022 12:27	0.0098	0.3715
3/3/2022 12:28	0.0098	0.3701
3/3/2022 12:29	0.0094	0.3695
3/3/2022 12:30	0.0091	0.3702
3/3/2022 12:31	0.0089	0.3706
3/3/2022 12:32	0.0091	0.3707
3/3/2022 12:33	0.0089	0.3699
3/3/2022 12:34	0.0084	0.3695
3/3/2022 12:35	0.0079	0.3705
3/3/2022 12:36	0.0078	0.3703
3/3/2022 12:37	0.0078	0.3709
3/3/2022 12:38	0.0078	0.3709
3/3/2022 12:39	0.0076	0.3719
3/3/2022 12:40	0.0077	0.373
3/3/2022 12:41	0.0077	0.3745
3/3/2022 12:42	0.0077	0.3751
3/3/2022 12:43	0.0077	0.3753
3/3/2022 12:44	0.0076	0.3755
3/3/2022 12:45	0.0076	0.3759
3/3/2022 12:46	0.0079	0.3761
3/3/2022 12:47	0.0081	0.377
3/3/2022 12:48	0.0085	0.3771
3/3/2022 12:49	0.0093	0.377
3/3/2022 12:50	0.0096	0.3755
3/3/2022 12:51	0.0099	0.3769
3/3/2022 12:52	0.01	0.3768
3/3/2022 12:53	0.0101	0.3764
3/3/2022 12:54	0.0106	0.3755
3/3/2022 12:55	0.0109	0.3752
3/3/2022 12:56	0.0121	0.3736
3/3/2022 12:57	0.0131	0.3727
3/3/2022 12:58	0.0145	0.3719
3/3/2022 12:59	0.0153	0.3711
3/3/2022 13:00	0.0162	0.3693
3/3/2022 13:01	0.0163	0.3681
3/3/2022 13:02	0.016	0.3671
3/3/2022 13:03	0.0155	0.3666
3/3/2022 13:04	0.0147	0.3662
3/3/2022 13:05	0.0143	0.3659
3/3/2022 13:06	0.0143	0.3641
3/3/2022 13:07	0.0146	0.3629
3/3/2022 13:08	0.0148	0.3631
3/3/2022 13:09	0.0145	0.3623
3/3/2022 13:10	0.0143	0.3617
3/3/2022 13:11	0.0133	0.3618
3/3/2022 13:12	0.013	0.3617
3/3/2022 13:13	0.0117	0.3635
3/3/2022 13:14	0.0111	0.3637
3/3/2022 13:15	0.0104	0.3639

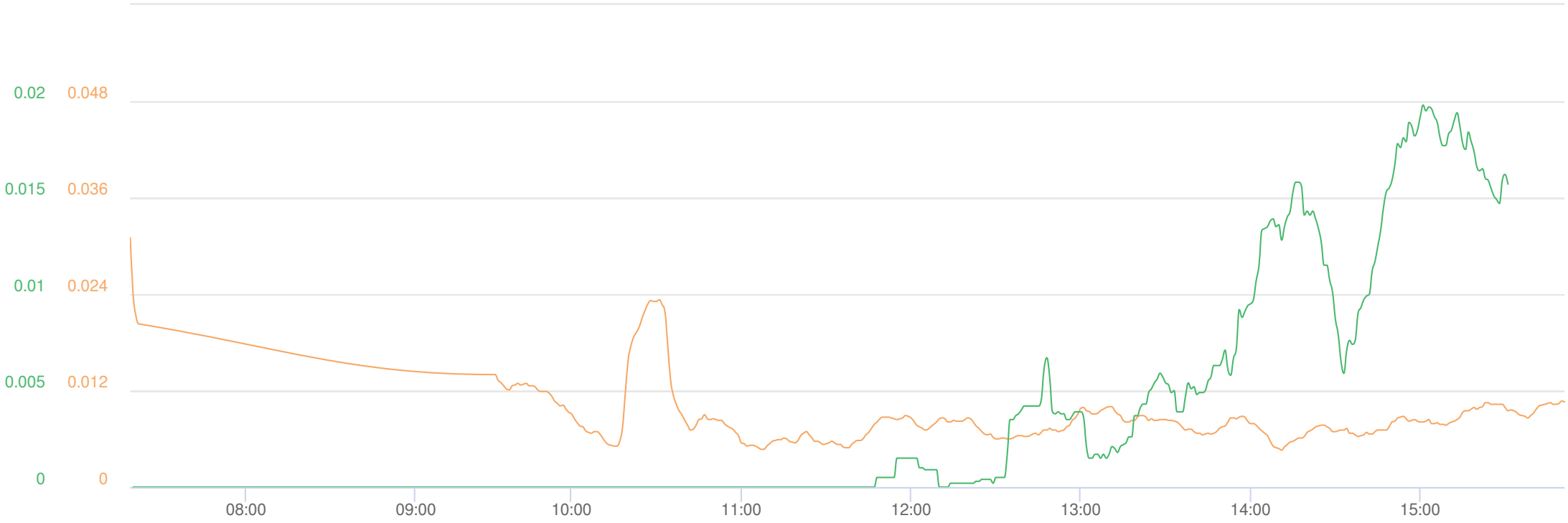
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3/3/2022 13:17	0.0103	0.3631
3/3/2022 13:18	0.0104	0.3632
3/3/2022 13:19	0.0105	0.3633
3/3/2022 13:20	0.0106	0.3629
3/3/2022 13:21	0.0103	0.3628
3/3/2022 13:22	0.01	0.3627
3/3/2022 13:23	0.0097	0.3623
3/3/2022 13:24	0.0096	0.3631
3/3/2022 13:25	0.0094	0.3621
3/3/2022 13:26	0.0093	0.3609
3/3/2022 13:27	0.0087	0.3603
3/3/2022 13:28	0.0085	0.3581
3/3/2022 13:29	0.0085	0.3571
3/3/2022 13:30	0.0083	0.3561
3/3/2022 13:31	0.0077	0.3553
3/3/2022 13:32	0.0079	0.3547
3/3/2022 13:33	0.0077	0.3534
3/3/2022 13:34	0.0075	0.3522
3/3/2022 13:35	0.0073	0.3516
3/3/2022 13:36	0.0072	0.3509
3/3/2022 13:37	0.0071	0.3505
3/3/2022 13:38	0.0069	0.3493
3/3/2022 13:39	0.0067	0.3477
3/3/2022 13:40	0.0066	0.3471
3/3/2022 13:41	0.0064	0.3481
3/3/2022 13:42	0.0063	0.3485
3/3/2022 13:43	0.0063	0.3487
3/3/2022 13:44	0.0063	0.349
3/3/2022 13:45	0.0063	0.3492
3/3/2022 13:46	0.0063	0.3499
3/3/2022 13:47	0.0061	0.3512
3/3/2022 13:48	0.0062	0.3517
3/3/2022 13:49	0.0069	0.3525
3/3/2022 13:50	0.0073	0.3533
3/3/2022 13:51	0.0076	0.3548
3/3/2022 13:52	0.0083	0.3549
3/3/2022 13:53	0.0091	0.356
3/3/2022 13:54	0.0093	0.3571
3/3/2022 13:55	0.0093	0.3582
3/3/2022 13:56	0.01	0.3588
3/3/2022 13:57	0.0102	0.3591
3/3/2022 13:58	0.0101	0.3593
3/3/2022 13:59	0.0102	0.3609
3/3/2022 14:00	0.0101	0.3627
3/3/2022 14:01	0.01	0.3627
3/3/2022 14:02	0.0099	0.3635
3/3/2022 14:03	0.0097	0.3652
3/3/2022 14:04	0.0091	0.3663
3/3/2022 14:05	0.0086	0.3667
3/3/2022 14:06	0.0084	0.3663

3/3/2022 14:07	0.0076	0.3671
3/3/2022 14:08	0.0073	0.3669
3/3/2022 14:09	0.0071	0.3675
3/3/2022 14:10	0.0072	0.3682
3/3/2022 14:11	0.0069	0.3679
3/3/2022 14:12	0.0069	0.3677
3/3/2022 14:13	0.0075	0.3674
3/3/2022 14:14	0.0077	0.3656
3/3/2022 14:15	0.008	0.3636
3/3/2022 14:16	0.0082	0.363
3/3/2022 14:17	0.0083	0.3609
3/3/2022 14:18	0.0085	0.3596
3/3/2022 14:19	0.0087	0.3585
3/3/2022 14:20	0.0095	0.358
3/3/2022 14:21	0.0097	0.3568
3/3/2022 14:22	0.0101	0.3555
3/3/2022 14:23	0.0097	0.3549
3/3/2022 14:24	0.0099	0.3532
3/3/2022 14:25	0.0099	0.3519
3/3/2022 14:26	0.0097	0.3508
3/3/2022 14:27	0.0096	0.3499
3/3/2022 14:28	0.0091	0.3489
3/3/2022 14:29	0.0087	0.3482
3/3/2022 14:30	0.0085	0.3472
3/3/2022 14:31	0.0085	0.3465
3/3/2022 14:32	0.0085	0.3463
3/3/2022 14:33	0.0087	0.3452
3/3/2022 14:34	0.0087	0.3449
3/3/2022 14:35	0.0081	0.3455
3/3/2022 14:36	0.0079	0.3456
3/3/2022 14:37	0.0076	0.3454
3/3/2022 14:38	0.0075	0.3451
3/3/2022 14:39	0.0074	0.3449
3/3/2022 14:40	0.0073	0.3446
3/3/2022 14:41	0.0073	0.3445
3/3/2022 14:42	0.0072	0.344
3/3/2022 14:43	0.0073	0.3445
3/3/2022 14:44	0.0073	0.3448
3/3/2022 14:45	0.0074	0.3457
3/3/2022 14:46	0.0074	0.3457
3/3/2022 14:47	0.0075	0.3463
3/3/2022 14:48	0.0073	0.3465
3/3/2022 14:49	0.0077	0.3464
3/3/2022 14:50	0.0079	0.3459
3/3/2022 14:51	0.0079	0.3473
3/3/2022 14:52	0.0081	0.3475
3/3/2022 14:53	0.0082	0.3496
3/3/2022 14:54	0.0081	0.3501
3/3/2022 14:55	0.0079	0.3505
3/3/2022 14:56	0.0079	0.352
3/3/2022 14:57	0.0079	0.3532

3/3/2022 14:58	0.0079	0.3546
3/3/2022 14:59	0.0079	0.3548
3/3/2022 15:00	0.0079	0.3553
3/3/2022 15:01	0.0082	0.3561
3/3/2022 15:02	0.0083	0.3568
3/3/2022 15:03	0.0087	0.3581
3/3/2022 15:04	0.0083	0.3587
3/3/2022 15:05	0.0087	0.3585
3/3/2022 15:06	0.009	0.3584
3/3/2022 15:07	0.0091	0.3607
3/3/2022 15:08	0.009	0.3591
3/3/2022 15:09	0.0091	0.3594
3/3/2022 15:10	0.0092	0.3601
3/3/2022 15:11	0.0093	0.359
3/3/2022 15:12	0.0095	0.3596
3/3/2022 15:13	0.0096	0.3592
3/3/2022 15:14	0.0098	0.3605
3/3/2022 15:15	0.0101	0.3611
3/3/2022 15:16	0.0105	0.3614
3/3/2022 15:17	0.0111	0.3618
3/3/2022 15:18	0.0109	0.3615
3/3/2022 15:19	0.0121	0.3619
3/3/2022 15:20	0.0115	0.3615
3/3/2022 15:21	0.0114	0.3605
3/3/2022 15:22	0.0114	0.3583
3/3/2022 15:23	0.0115	0.3581
3/3/2022 15:24	0.0114	0.3574
3/3/2022 15:25	0.0113	0.3568
3/3/2022 15:26	0.0114	0.3567
3/3/2022 15:27	0.0113	0.3557
3/3/2022 15:28	0.0111	0.3551
3/3/2022 15:29	0.0111	0.354
3/3/2022 15:30	0.0107	0.3531
3/3/2022 15:31	0.0101	0.3527
3/3/2022 15:32	0.0098	0.3519
3/3/2022 15:33	0.0097	0.3518
3/3/2022 15:34	0.0083	0.3519
3/3/2022 15:35	0.0082	0.3525
3/3/2022 15:36	0.0079	0.3585
3/3/2022 15:37	0.0079	0.3611
3/3/2022 15:38	0.0078	0.3616
3/3/2022 15:39	0.0083	0.3623
3/3/2022 15:40	0.0089	0.3633
3/3/2022 15:41	0.0098	0.3644
3/3/2022 15:42	0.0107	0.3652
3/3/2022 15:43	0.0112	0.3665
3/3/2022 15:44	0.0113	0.367
3/3/2022 15:45	0.0119	0.3685
3/3/2022 15:46	0.0147	0.3699
3/3/2022 15:47	0.0143	0.3711
3/3/2022 15:48	0.0144	0.3726

3/3/2022 15:49	0.0147	0.373
3/3/2022 15:50	0.0151	0.3731
3/3/2022 15:51	0.0152	0.3677
3/3/2022 15:52	0.0151	

03/03/2022 0:00:35 – 03/04/2022 0:00:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.0046	**0.0086**	**0.031**

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	**0.0036**	**0.0198**

Name	TOT2101 DW (FA03793)
S/N	0B427035
Description	(FA03793)
Location	746 4th Ave, Brooklyn, NY 11232, USA

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Device	TOT2101 - CAMP Station - Downwind	
Timestamp (America/New_York)	Mass Conc. Total mg/m³ AVG 15m (mg/m³)	VOC ppm AVG 15m (ppm)
3/3/2022 7:15	0.031	
3/3/2022 7:16	0.024	0
3/3/2022 7:17	0.0213	0
3/3/2022 7:18	0.0203	0
3/3/2022 7:23		0
3/3/2022 7:24		0
3/3/2022 7:25		0
3/3/2022 7:26		0
3/3/2022 7:27		0
3/3/2022 7:28		0
3/3/2022 7:29		0
3/3/2022 7:30		0
3/3/2022 7:31		0
3/3/2022 7:32		0
3/3/2022 7:33		0
3/3/2022 7:34		0
3/3/2022 7:35		0
3/3/2022 7:36		0
3/3/2022 7:37		0
3/3/2022 7:38		0
3/3/2022 7:39		0
3/3/2022 7:40		0
3/3/2022 7:41		0
3/3/2022 7:42		0
3/3/2022 7:43		0
3/3/2022 7:44		0
3/3/2022 7:45		0
3/3/2022 7:46		0
3/3/2022 7:47		0
3/3/2022 7:48		0
3/3/2022 7:49		0
3/3/2022 7:50		0
3/3/2022 7:51		0
3/3/2022 7:52		0
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3/3/2022 7:54		0
3/3/2022 7:55		0
3/3/2022 7:56		0
3/3/2022 7:57		0
3/3/2022 7:58		0
3/3/2022 7:59		0
3/3/2022 8:00		0
3/3/2022 8:01		0
3/3/2022 8:02		0
3/3/2022 8:03		0
3/3/2022 8:04		0
3/3/2022 8:05		0

3/3/2022 8:06	0
3/3/2022 8:07	0
3/3/2022 8:08	0
3/3/2022 8:09	0
3/3/2022 8:10	0
3/3/2022 8:11	0
3/3/2022 8:12	0
3/3/2022 8:13	0
3/3/2022 8:14	0
3/3/2022 8:15	0
3/3/2022 8:16	0
3/3/2022 8:17	0
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3/3/2022 8:19	0
3/3/2022 8:20	0
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3/3/2022 8:22	0
3/3/2022 8:23	0
3/3/2022 8:24	0
3/3/2022 8:25	0
3/3/2022 8:26	0
3/3/2022 8:27	0
3/3/2022 8:28	0
3/3/2022 8:29	0
3/3/2022 8:30	0
3/3/2022 8:31	0
3/3/2022 8:32	0
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3/3/2022 8:42	0
3/3/2022 8:43	0
3/3/2022 8:44	0
3/3/2022 8:45	0
3/3/2022 8:46	0
3/3/2022 8:47	0
3/3/2022 8:48	0
3/3/2022 8:49	0
3/3/2022 8:50	0
3/3/2022 8:51	0
3/3/2022 8:52	0
3/3/2022 8:53	0
3/3/2022 8:54	0

3/3/2022 8:55		0
3/3/2022 8:56		0
3/3/2022 8:57		0
3/3/2022 8:58		0
3/3/2022 8:59		0
3/3/2022 9:00		0
3/3/2022 9:01		0
3/3/2022 9:02		0
3/3/2022 9:03		0
3/3/2022 9:04		0
3/3/2022 9:05		0
3/3/2022 9:06		0
3/3/2022 9:07		0
3/3/2022 9:08		0
3/3/2022 9:09		0
3/3/2022 9:10		0
3/3/2022 9:11		0
3/3/2022 9:12		0
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3/3/2022 9:19		0
3/3/2022 9:20		0
3/3/2022 9:21		0
3/3/2022 9:22		0
3/3/2022 9:23		0
3/3/2022 9:24		0
3/3/2022 9:25		0
3/3/2022 9:26		0
3/3/2022 9:27		0
3/3/2022 9:28		0
3/3/2022 9:32	0.014	0
3/3/2022 9:33	0.014	0
3/3/2022 9:34	0.0133	0
3/3/2022 9:35	0.013	0
3/3/2022 9:36	0.0126	0
3/3/2022 9:37	0.0122	0
3/3/2022 9:38	0.0121	0
3/3/2022 9:39	0.0126	0
3/3/2022 9:40	0.0127	0
3/3/2022 9:41	0.0129	0
3/3/2022 9:42	0.0127	0
3/3/2022 9:43	0.0128	0
3/3/2022 9:44	0.0129	0
3/3/2022 9:45	0.0126	0
3/3/2022 9:46	0.0126	0
3/3/2022 9:47	0.0125	0
3/3/2022 9:48	0.0121	0

3/3/2022 9:49	0.0119	0
3/3/2022 9:50	0.0119	0
3/3/2022 9:51	0.0119	0
3/3/2022 9:52	0.0117	0
3/3/2022 9:53	0.0113	0
3/3/2022 9:54	0.0107	0
3/3/2022 9:55	0.0104	0
3/3/2022 9:56	0.0101	0
3/3/2022 9:57	0.0102	0
3/3/2022 9:58	0.0097	0
3/3/2022 9:59	0.0093	0
3/3/2022 10:00	0.0091	0
3/3/2022 10:01	0.0085	0
3/3/2022 10:02	0.008	0
3/3/2022 10:03	0.0076	0
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3/3/2022 10:06	0.0068	0
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3/3/2022 13:30	0.0084	0.0054
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3/3/2022 13:36	0.0074	0.0039
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3/3/2022 13:38	0.0072	0.0054
3/3/2022 13:39	0.0072	0.0051
3/3/2022 13:40	0.0069	0.0052
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3/3/2022 13:46	0.0066	0.0057
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3/3/2022 15:48	0.0103
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PWGC	DATE:	3/4/22	DAY:	Friday
	ON-SITE:	0650 am	OFF-SITE:	1610 pm
	NYSDEC Project #:	C224332		
	PWGC Project #:	TOT2101		

DAILY FIELD ACTIVITY REPORT	
PROJECT:	737 4th Avenue Site
LOCATION:	731-747 4th Avenue, Brooklyn, New York 11232
WEATHER:	Raining, 22-461 F, Wind west
SITE SAFETY OFFICER:	William Hamilton
ATTACHMENTS:	Langan Boring Site Plan, CAMP Readings

SUMMARY OF SITE ACTIVITIES

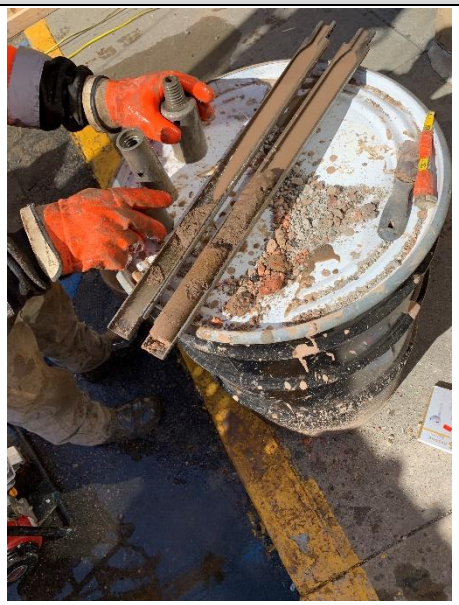
Langan and PWGC onsite to oversee installation of geotechnical drilling.

- Aarco Environmental finished drilling LB-7 to 70 feet while Langan preformed geothechnical soil sampling.
- CAMP was preformed with ecorental station dust tracks and PID mini Rae Lite. The battery for one of the stations was found to not hold a charge, so there was no upwind station data for the day. New batteries were ordered and will be arriving on 3/7/2022. There were a few elevated dust spikes throughout the day, however the concentrations did not exceed 0.150 mg/m3.

PREPARED BY	**REVIEWED BY**
PRINT NAME: William Hamilton	PRINT NAME: Derek Ersbak, PG

PWGC	DATE:	3/4/22	DAY:	Friday
	ON-SITE:	0650 am	OFF-SITE:	1610 pm
	NYSDEC Project #:	C224332		
	PWGC Project #:	TOT2101		

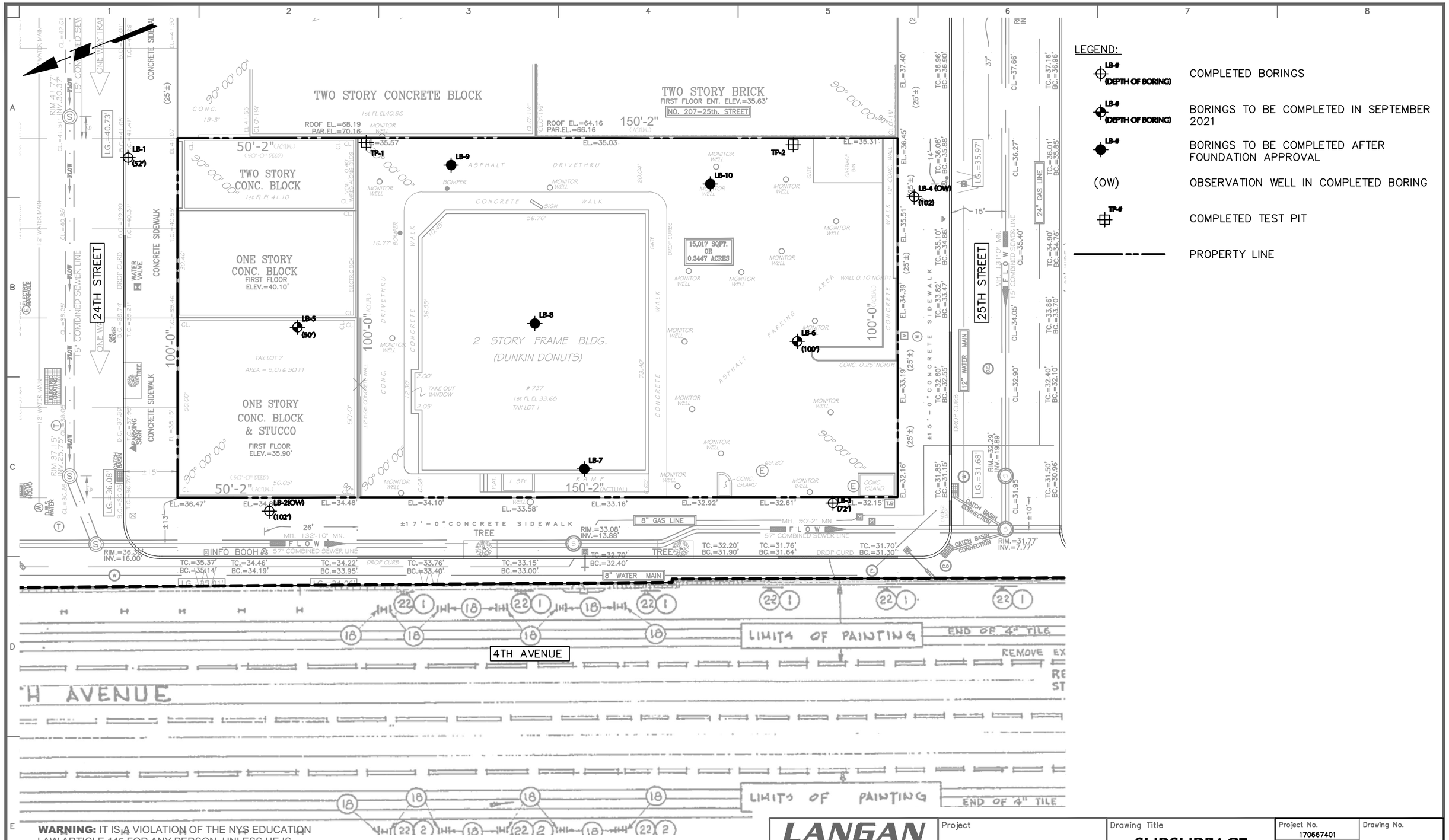
PHOTO LOG



View of LB-7 soil sample.



View of geoprobe at LB-7.

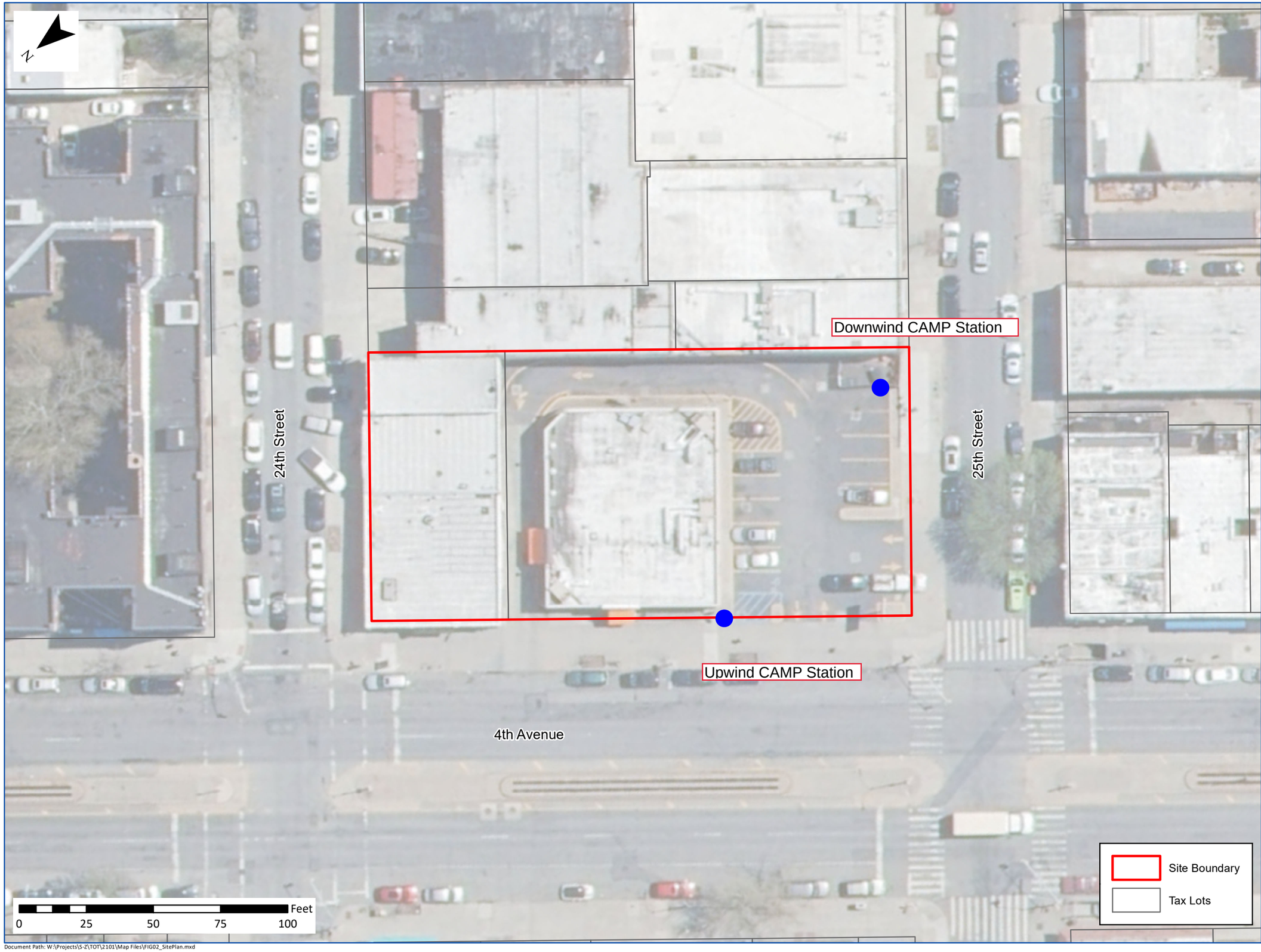


LANGAN
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New York, NY 10001
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Project	737 4TH AVENUE BLOCK No. 652 LOT No. 1, 7 BROOKLYN NEW YORK
Drawing Title	SUBSURFACE INVESTIGATION PLAN
Project No.	170667401
Date	08/17/2021
Drawn By	EK
Checked By	VV
Drawing No.	1
Sheet	1 of 1

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Filename: \\langan.com\data\NY\data4\170667401\Project Data\CAD\01\SheetFiles\Geotechnical\170667401-BI001-0102.dwg Date: 8/17/2021 Time: 17:51 User: ekyriacou Style Table: Langan.stb Layout: BLP



Document Path: W:\Projects\S-Z\TOT\2101\Map Files\FIG02_SitePlan.mxd

PWGC
CLIENT DRIVEN SOLUTIONS
P.W. Grosser Consulting Engineer & Hydrogeologist, PC
630 Johnson Ave., Suite 7
Bohemia, NY 11716
Ph: 631-589-6353 • Fax: 631-589-8705
pwgc.info@pwgrosser.com

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DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

Project:	TOT2101	Designed by:	JL
Date:	3/29/2021	Drawn by:	UC
Scale:	AS SHOWN	Approved by:	JL

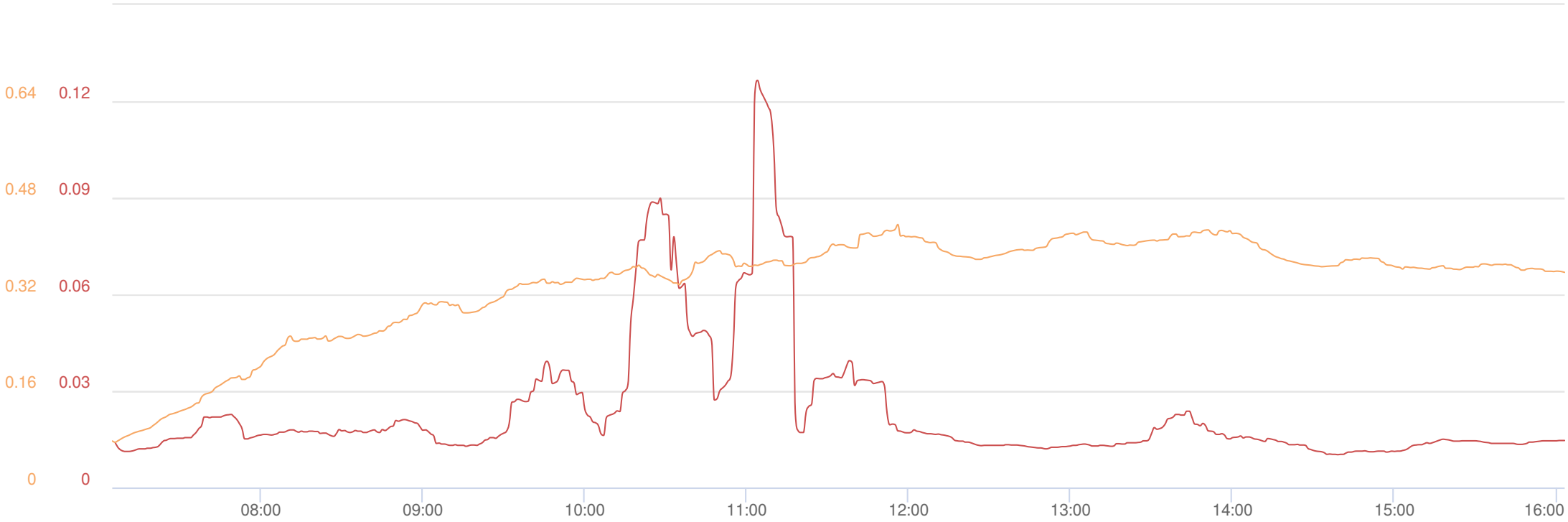
SITE PLAN

731-747 4th Ave
Brooklyn, NY

FIGURE NO:

2

Fri, 4th of Mar 2022, 0:00:00 – 16:39:13
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.0102	0.0236	0.1265

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0.075	0.337	0.4357

Name	TOT2101 UW (FA03927)
S/N	0B448132
Description	(FA03927)
Location	759 4th Ave, Brooklyn, NY 11232, USA

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Device	TOT2101 - CAMP Station - Downwind	
Timestamp (America/New_York)	Mass Conc. Total mg/m³ AVG 15m (mg/m³)	VOC ppm AVG 15m (ppm)
3/4/2022 7:05		0.077
3/4/2022 7:06	0.014	0.075
3/4/2022 7:07	0.0125	0.0773
3/4/2022 7:08	0.0117	0.08
3/4/2022 7:09	0.0113	0.0826
3/4/2022 7:10	0.0112	0.0847
3/4/2022 7:11	0.0112	0.0864
3/4/2022 7:12	0.0113	0.0886
3/4/2022 7:13	0.0115	0.0906
3/4/2022 7:14	0.0118	0.092
3/4/2022 7:15	0.012	0.0934
3/4/2022 7:16	0.012	0.0945
3/4/2022 7:17	0.012	0.096
3/4/2022 7:18	0.0122	0.0974
3/4/2022 7:19	0.0122	0.0989
3/4/2022 7:20	0.0124	0.1025
3/4/2022 7:21	0.0125	0.1057
3/4/2022 7:22	0.0128	0.1095
3/4/2022 7:23	0.0137	0.1133
3/4/2022 7:24	0.0145	0.1155
3/4/2022 7:25	0.0147	0.1175
3/4/2022 7:26	0.0151	0.1207
3/4/2022 7:27	0.0152	0.1219
3/4/2022 7:28	0.0152	0.1232
3/4/2022 7:29	0.0153	0.1247
3/4/2022 7:30	0.0153	0.1265
3/4/2022 7:31	0.0153	0.1281
3/4/2022 7:32	0.0155	0.1295
3/4/2022 7:33	0.0155	0.1315
3/4/2022 7:34	0.0155	0.1332
3/4/2022 7:35	0.0163	0.1361
3/4/2022 7:36	0.0171	0.1395
3/4/2022 7:37	0.0183	0.1404
3/4/2022 7:38	0.0192	0.1495
3/4/2022 7:39	0.0219	0.1539
3/4/2022 7:40	0.0219	0.1556
3/4/2022 7:41	0.0217	0.1569
3/4/2022 7:42	0.0219	0.1593
3/4/2022 7:43	0.0219	0.1647
3/4/2022 7:44	0.0219	0.1675
3/4/2022 7:45	0.0219	0.17
3/4/2022 7:46	0.0222	0.173
3/4/2022 7:47	0.0225	0.1761
3/4/2022 7:48	0.0226	0.1784
3/4/2022 7:49	0.0227	0.1815
3/4/2022 7:50	0.022	0.1818
3/4/2022 7:51	0.0212	0.1825
3/4/2022 7:52	0.0199	0.1849
3/4/2022 7:53	0.0183	0.1791
3/4/2022 7:54	0.0151	0.1791
3/4/2022 7:55	0.0151	0.1817
3/4/2022 7:56	0.0154	0.1838
3/4/2022 7:57	0.0156	0.1942
3/4/2022 7:58	0.0159	0.1955
3/4/2022 7:59	0.0162	0.1981
3/4/2022 8:00	0.0163	0.2012
3/4/2022 8:01	0.0165	0.2083

3/4/2022 8:02	0.0165	0.2129
3/4/2022 8:03	0.0164	0.2157
3/4/2022 8:04	0.0163	0.2176
3/4/2022 8:05	0.0165	0.2205
3/4/2022 8:06	0.0167	0.2261
3/4/2022 8:07	0.0172	0.2304
3/4/2022 8:08	0.0172	0.2343
3/4/2022 8:09	0.0173	0.2364
3/4/2022 8:10	0.0177	0.2479
3/4/2022 8:11	0.0179	0.2508
3/4/2022 8:12	0.0179	0.2437
3/4/2022 8:13	0.0175	0.2423
3/4/2022 8:14	0.0172	0.2427
3/4/2022 8:15	0.0175	0.2458
3/4/2022 8:16	0.0173	0.2458
3/4/2022 8:17	0.0173	0.2457
3/4/2022 8:18	0.0175	0.2475
3/4/2022 8:19	0.0175	0.2477
3/4/2022 8:20	0.0174	0.2484
3/4/2022 8:21	0.0174	0.246
3/4/2022 8:22	0.0168	0.2461
3/4/2022 8:23	0.0169	0.2477
3/4/2022 8:24	0.0169	0.251
3/4/2022 8:25	0.0165	0.2428
3/4/2022 8:26	0.0161	0.2433
3/4/2022 8:27	0.0159	0.2462
3/4/2022 8:28	0.0168	0.2486
3/4/2022 8:29	0.018	0.2504
3/4/2022 8:30	0.0176	0.2502
3/4/2022 8:31	0.0177	0.248
3/4/2022 8:32	0.0173	0.2471
3/4/2022 8:33	0.0171	0.2474
3/4/2022 8:34	0.0173	0.2492
3/4/2022 8:35	0.0177	0.2517
3/4/2022 8:36	0.0175	0.2536
3/4/2022 8:37	0.0175	0.2528
3/4/2022 8:38	0.0171	0.2508
3/4/2022 8:39	0.0171	0.2511
3/4/2022 8:40	0.0174	0.2521
3/4/2022 8:41	0.0177	0.2537
3/4/2022 8:42	0.0179	0.2556
3/4/2022 8:43	0.0173	0.2564
3/4/2022 8:44	0.0171	0.2596
3/4/2022 8:45	0.018	0.2592
3/4/2022 8:46	0.0177	0.2611
3/4/2022 8:47	0.0182	0.2666
3/4/2022 8:48	0.0189	0.2681
3/4/2022 8:49	0.0191	0.2728
3/4/2022 8:50	0.0208	0.2736
3/4/2022 8:51	0.0206	0.2733
3/4/2022 8:52	0.0209	0.2753
3/4/2022 8:53	0.0211	0.2787
3/4/2022 8:54	0.021	0.2785
3/4/2022 8:55	0.0207	0.2847
3/4/2022 8:56	0.0205	0.2856
3/4/2022 8:57	0.0201	0.2876
3/4/2022 8:58	0.0199	0.2897
3/4/2022 8:59	0.0188	0.2967
3/4/2022 9:00	0.0178	0.3039

3/4/2022 9:01	0.0179	0.3059
3/4/2022 9:02	0.0174	0.3041
3/4/2022 9:03	0.0166	0.3056
3/4/2022 9:04	0.0161	0.3032
3/4/2022 9:05	0.0137	0.3027
3/4/2022 9:06	0.0138	0.307
3/4/2022 9:07	0.0135	0.3079
3/4/2022 9:08	0.0135	0.3073
3/4/2022 9:09	0.0133	0.3069
3/4/2022 9:10	0.0131	0.3019
3/4/2022 9:11	0.0131	0.3031
3/4/2022 9:12	0.0133	0.3016
3/4/2022 9:13	0.0131	0.3027
3/4/2022 9:14	0.0131	0.295
3/4/2022 9:15	0.0131	0.2896
3/4/2022 9:16	0.0128	0.2894
3/4/2022 9:17	0.013	0.2895
3/4/2022 9:18	0.0132	0.2902
3/4/2022 9:19	0.0132	0.2909
3/4/2022 9:20	0.0131	0.2919
3/4/2022 9:21	0.0135	0.294
3/4/2022 9:22	0.0139	0.2977
3/4/2022 9:23	0.0147	0.2993
3/4/2022 9:24	0.0149	0.3034
3/4/2022 9:25	0.0155	0.3059
3/4/2022 9:26	0.0155	0.3072
3/4/2022 9:27	0.0153	0.3091
3/4/2022 9:28	0.0159	0.3117
3/4/2022 9:29	0.0165	0.3145
3/4/2022 9:30	0.0169	0.3171
3/4/2022 9:31	0.0175	0.3253
3/4/2022 9:32	0.0199	0.3281
3/4/2022 9:33	0.0265	0.3287
3/4/2022 9:34	0.0267	0.3316
3/4/2022 9:35	0.0274	0.3339
3/4/2022 9:36	0.0273	0.3379
3/4/2022 9:37	0.0269	0.3367
3/4/2022 9:38	0.0267	0.3368
3/4/2022 9:39	0.0268	0.3369
3/4/2022 9:40	0.0296	0.3385
3/4/2022 9:41	0.0301	0.3397
3/4/2022 9:42	0.0337	0.3392
3/4/2022 9:43	0.0333	0.3411
3/4/2022 9:44	0.033	0.3443
3/4/2022 9:45	0.0378	0.3451
3/4/2022 9:46	0.0392	0.3387
3/4/2022 9:47	0.0373	0.3385
3/4/2022 9:48	0.0323	0.3409
3/4/2022 9:49	0.0326	0.3393
3/4/2022 9:50	0.0333	0.3397
3/4/2022 9:51	0.0357	0.3367
3/4/2022 9:52	0.0365	0.3379
3/4/2022 9:53	0.0364	0.3402
3/4/2022 9:54	0.0364	0.3402
3/4/2022 9:55	0.0332	0.3401
3/4/2022 9:56	0.0325	0.3438
3/4/2022 9:57	0.0289	0.3467
3/4/2022 9:58	0.0293	0.346
3/4/2022 9:59	0.0295	0.3451

3/4/2022 10:00	0.0244	0.3444
3/4/2022 10:01	0.0225	0.3451
3/4/2022 10:02	0.0219	0.3451
3/4/2022 10:03	0.0204	0.3433
3/4/2022 10:04	0.0201	0.3446
3/4/2022 10:05	0.0193	0.3447
3/4/2022 10:06	0.0167	0.3466
3/4/2022 10:07	0.0162	0.3465
3/4/2022 10:08	0.0217	0.3497
3/4/2022 10:09	0.0224	0.355
3/4/2022 10:10	0.0227	0.3565
3/4/2022 10:11	0.0231	0.3539
3/4/2022 10:12	0.0238	0.3533
3/4/2022 10:13	0.0236	0.3541
3/4/2022 10:14	0.0293	0.3573
3/4/2022 10:15	0.0301	0.3597
3/4/2022 10:16	0.0321	0.3605
3/4/2022 10:17	0.0509	0.3625
3/4/2022 10:18	0.0589	0.366
3/4/2022 10:19	0.0681	0.3651
3/4/2022 10:20	0.0765	0.3683
3/4/2022 10:21	0.0769	0.3641
3/4/2022 10:22	0.0769	0.3629
3/4/2022 10:23	0.0835	0.3585
3/4/2022 10:24	0.0874	0.3529
3/4/2022 10:25	0.0887	0.3511
3/4/2022 10:26	0.0885	0.3489
3/4/2022 10:27	0.0882	0.3529
3/4/2022 10:28	0.0899	0.3508
3/4/2022 10:29	0.0848	0.3485
3/4/2022 10:30	0.0849	0.3463
3/4/2022 10:31	0.0845	0.3445
3/4/2022 10:32	0.0676	0.342
3/4/2022 10:33	0.0779	0.3389
3/4/2022 10:34	0.0693	0.3389
3/4/2022 10:35	0.0619	0.3362
3/4/2022 10:36	0.0625	0.3424
3/4/2022 10:37	0.0634	0.3443
3/4/2022 10:38	0.0515	0.3467
3/4/2022 10:39	0.0482	0.3508
3/4/2022 10:40	0.047	0.3594
3/4/2022 10:41	0.0478	0.3733
3/4/2022 10:42	0.0481	0.3715
3/4/2022 10:43	0.0483	0.3729
3/4/2022 10:44	0.0488	0.3745
3/4/2022 10:45	0.0485	0.3789
3/4/2022 10:46	0.0473	0.3837
3/4/2022 10:47	0.0454	0.3859
3/4/2022 10:48	0.0272	0.3888
3/4/2022 10:49	0.0276	0.3913
3/4/2022 10:50	0.03	0.3923
3/4/2022 10:51	0.0309	0.3871
3/4/2022 10:52	0.0317	0.3872
3/4/2022 10:53	0.033	0.3862
3/4/2022 10:54	0.0343	0.3841
3/4/2022 10:55	0.0441	0.3771
3/4/2022 10:56	0.0625	0.366
3/4/2022 10:57	0.0643	0.367
3/4/2022 10:58	0.0651	0.3665

3/4/2022 10:59	0.0667	0.3715
3/4/2022 11:00	0.0664	0.3694
3/4/2022 11:01	0.0661	0.3665
3/4/2022 11:02	0.0665	0.3667
3/4/2022 11:03	0.1223	0.3686
3/4/2022 11:04	0.1265	0.368
3/4/2022 11:05	0.1236	0.3695
3/4/2022 11:06	0.1218	0.3708
3/4/2022 11:07	0.1201	0.3733
3/4/2022 11:08	0.1182	0.374
3/4/2022 11:09	0.1156	0.3749
3/4/2022 11:10	0.1055	0.3766
3/4/2022 11:11	0.0863	0.3767
3/4/2022 11:12	0.0839	0.3755
3/4/2022 11:13	0.0812	0.3757
3/4/2022 11:14	0.0782	0.3683
3/4/2022 11:15	0.0779	0.3677
3/4/2022 11:16	0.078	0.3675
3/4/2022 11:17	0.0778	0.3685
3/4/2022 11:18	0.0231	0.3709
3/4/2022 11:19	0.0177	0.3715
3/4/2022 11:20	0.0171	0.3714
3/4/2022 11:21	0.0171	0.3723
3/4/2022 11:22	0.0234	0.374
3/4/2022 11:23	0.0252	0.3789
3/4/2022 11:24	0.0258	0.3808
3/4/2022 11:25	0.0333	0.3811
3/4/2022 11:26	0.0339	0.3824
3/4/2022 11:27	0.0338	0.3833
3/4/2022 11:28	0.0338	0.3858
3/4/2022 11:29	0.0341	0.3891
3/4/2022 11:30	0.0343	0.3916
3/4/2022 11:31	0.0347	0.3999
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3/4/2022 11:33	0.0344	0.401
3/4/2022 11:34	0.0343	0.4021
3/4/2022 11:35	0.0341	0.4023
3/4/2022 11:36	0.0355	0.402
3/4/2022 11:37	0.0378	0.3993
3/4/2022 11:38	0.0394	0.3977
3/4/2022 11:39	0.0389	0.3971
3/4/2022 11:40	0.0317	0.3969
3/4/2022 11:41	0.0332	0.3973
3/4/2022 11:42	0.0334	0.4192
3/4/2022 11:43	0.0335	0.4197
3/4/2022 11:44	0.0334	0.4209
3/4/2022 11:45	0.0333	0.4219
3/4/2022 11:46	0.0331	0.4193
3/4/2022 11:47	0.0323	0.4163
3/4/2022 11:48	0.0325	0.4165
3/4/2022 11:49	0.0327	0.4177
3/4/2022 11:50	0.0329	0.4187
3/4/2022 11:51	0.0317	0.4244
3/4/2022 11:52	0.0231	0.4261
3/4/2022 11:53	0.0195	0.4252
3/4/2022 11:54	0.0197	0.4257
3/4/2022 11:55	0.0195	0.428
3/4/2022 11:56	0.0176	0.4357
3/4/2022 11:57	0.0175	0.4168

3/4/2022 11:58	0.0172	0.4177
3/4/2022 11:59	0.017	0.4157
3/4/2022 12:00	0.017	0.416
3/4/2022 12:01	0.0172	0.4153
3/4/2022 12:02	0.0179	0.4158
3/4/2022 12:03	0.0175	0.4151
3/4/2022 12:04	0.0174	0.4139
3/4/2022 12:05	0.0171	0.4134
3/4/2022 12:06	0.0169	0.408
3/4/2022 12:07	0.0167	0.4067
3/4/2022 12:08	0.0167	0.4058
3/4/2022 12:09	0.0166	0.4063
3/4/2022 12:10	0.0165	0.4056
3/4/2022 12:11	0.0166	0.3974
3/4/2022 12:12	0.0164	0.3938
3/4/2022 12:13	0.0163	0.3915
3/4/2022 12:14	0.0161	0.3906
3/4/2022 12:15	0.0159	0.3886
3/4/2022 12:16	0.0155	0.3856
3/4/2022 12:17	0.0147	0.3843
3/4/2022 12:18	0.0145	0.3833
3/4/2022 12:19	0.0144	0.3832
3/4/2022 12:20	0.0144	0.3826
3/4/2022 12:21	0.0141	0.3823
3/4/2022 12:22	0.0141	0.3819
3/4/2022 12:23	0.0139	0.3813
3/4/2022 12:24	0.0136	0.3797
3/4/2022 12:25	0.0133	0.3781
3/4/2022 12:26	0.0131	0.3781
3/4/2022 12:27	0.013	0.3784
3/4/2022 12:28	0.0131	0.3806
3/4/2022 12:29	0.0131	0.3809
3/4/2022 12:30	0.0131	0.3822
3/4/2022 12:31	0.0131	0.3832
3/4/2022 12:32	0.0131	0.3844
3/4/2022 12:33	0.0131	0.385
3/4/2022 12:34	0.0131	0.3857
3/4/2022 12:35	0.0131	0.3869
3/4/2022 12:36	0.0133	0.3882
3/4/2022 12:37	0.0133	0.3903
3/4/2022 12:38	0.0132	0.3917
3/4/2022 12:39	0.0132	0.3927
3/4/2022 12:40	0.0132	0.3937
3/4/2022 12:41	0.0131	0.3941
3/4/2022 12:42	0.013	0.3944
3/4/2022 12:43	0.0129	0.3931
3/4/2022 12:44	0.0127	0.3935
3/4/2022 12:45	0.0126	0.3932
3/4/2022 12:46	0.0125	0.3931
3/4/2022 12:47	0.0124	0.3959
3/4/2022 12:48	0.0123	0.3971
3/4/2022 12:49	0.0123	0.3977
3/4/2022 12:50	0.0121	0.3981
3/4/2022 12:51	0.012	0.3993
3/4/2022 12:52	0.0122	0.4069
3/4/2022 12:53	0.0125	0.4117
3/4/2022 12:54	0.0125	0.4129
3/4/2022 12:55	0.0125	0.4135
3/4/2022 12:56	0.0126	0.4146

3/4/2022 12:57	0.0127	0.4155
3/4/2022 12:58	0.0127	0.4191
3/4/2022 12:59	0.0128	0.4201
3/4/2022 13:00	0.0129	0.4211
3/4/2022 13:01	0.0131	0.4213
3/4/2022 13:02	0.0131	0.4189
3/4/2022 13:03	0.0133	0.4202
3/4/2022 13:04	0.0134	0.422
3/4/2022 13:05	0.0135	0.4233
3/4/2022 13:06	0.0134	0.4233
3/4/2022 13:07	0.0132	0.4155
3/4/2022 13:08	0.0129	0.4107
3/4/2022 13:09	0.0129	0.4099
3/4/2022 13:10	0.0129	0.4094
3/4/2022 13:11	0.0131	0.4088
3/4/2022 13:12	0.0131	0.4084
3/4/2022 13:13	0.013	0.4049
3/4/2022 13:14	0.0129	0.4041
3/4/2022 13:15	0.0128	0.4033
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3/4/2022 13:17	0.0136	0.405
3/4/2022 13:18	0.0136	0.4042
3/4/2022 13:19	0.0135	0.4026
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3/4/2022 13:21	0.0139	0.4009
3/4/2022 13:22	0.0139	0.4017
3/4/2022 13:23	0.0139	0.4014
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3/4/2022 13:28	0.0145	0.4087
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3/4/2022 13:31	0.0186	0.4099
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3/4/2022 13:45	0.0217	0.4224
3/4/2022 13:46	0.0197	0.4232
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3/4/2022 13:52	0.0175	0.4224
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3/4/2022 14:26	0.0132	0.3698
3/4/2022 14:27	0.0131	0.3692
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3/4/2022 15:18	0.015	0.3674
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3/4/2022 15:20	0.0148	0.3633
3/4/2022 15:21	0.0146	0.3631
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3/4/2022 15:23	0.0144	0.3617
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3/4/2022 15:28	0.0145	0.3651
3/4/2022 15:29	0.0145	0.3651
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3/4/2022 15:35	0.0139	0.3692
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3/4/2022 15:52	0.0142	0.3623
3/4/2022 15:53	0.0143	0.3622

3/4/2022 15:54	0.0144	0.3621
3/4/2022 15:55	0.0145	0.3611
3/4/2022 15:56	0.0145	0.3583
3/4/2022 15:57	0.0145	0.3583
3/4/2022 15:58	0.0145	0.3583
3/4/2022 15:59	0.0145	0.3579
3/4/2022 16:00	0.0145	0.3585
3/4/2022 16:01	0.0146	0.3583
3/4/2022 16:02	0.0146	0.3577
3/4/2022 16:03	0.0146	0.3565

PWGC	DATE:	3/7/22	DAY:	Monday
	ON-SITE:	0650 am	OFF-SITE:	1510 pm
	NYSDEC Project #:	C224332		
	PWGC Project #:	TOT2101		

DAILY FIELD ACTIVITY REPORT	
PROJECT:	737 4th Avenue Site
LOCATION:	731-747 4th Avenue, Brooklyn, New York 11232
WEATHER:	Raining, 55-75 F, Wind west
SITE SAFETY OFFICER:	William Hamilton
ATTACHMENTS:	Langan Boring Site Plan, CAMP Readings

SUMMARY OF SITE ACTIVITIES

Langan and PWGC onsite to oversee installation of geotechnical drilling.

- Aarco Environmental started installing a monitoring well at LB-7, then started drilling LB-10 to 60 feet while Langan preformed geothechnical soil sampling.
- CAMP was preformed with ecorental station dust tracks and PID mini Rae Lite. No exceedences were detected.

PREPARED BY	**REVIEWED BY**
PRINT NAME: William Hamilton	PRINT NAME: Derek Ersbak, PG

PWGC	DATE:	3/7/22	DAY:	Monday
	ON-SITE:	0650 am	OFF-SITE:	1510 pm
	NYSDEC Project #:	C224332		
	PWGC Project #:	TOT2101		

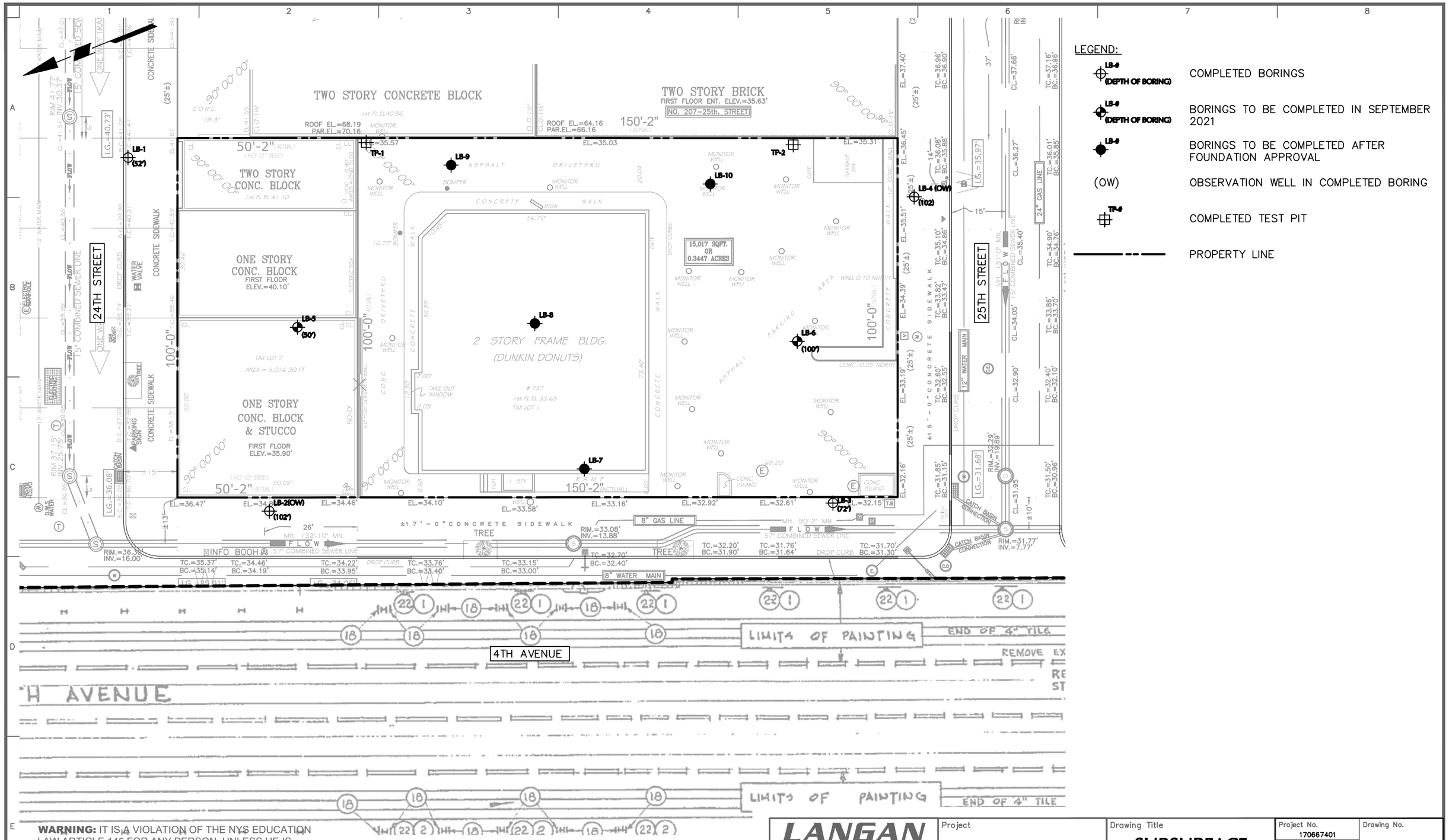
PHOTO LOG



View of LB-7 soil sample.



View of downwind CAMP station.



LANGAN
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New York, NY 10001
T: 212.479.5400 F: 212.479.5444 www.langan.com

Project	737 4TH AVENUE BLOCK No. 652 LOT No. 1, 7 BROOKLYN NEW YORK
Drawing Title	SUBSURFACE INVESTIGATION PLAN
Project No.	170667401
Date	08/17/2021
Drawn By	EK
Checked By	VV
Drawing No.	1
Sheet	1 of 1

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Filename: \\langan.com\data\NY\data4\170667401\Project Data\CAD\01\SheetFiles\Geotechnical\170667401-BI001-0102.dwg Date: 8/17/2021 Time: 17:51 User: ekyriacou Style Table: Langan.stb Layout: BLP



Document Path: W:\Projects\S-Z\TOT\2101\Map Files\FIG02_SitePlan.mxd

PWGC
CLIENT DRIVEN SOLUTIONS
P.W. Grosser Consulting Engineer & Hydrogeologist, PC
630 Johnson Ave., Suite 7
Bohemia, NY 11716
Ph: 631-589-6353 • Fax: 631-589-8705
pwgc.info@pwgrosser.com

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DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

Project:	TOT2101	Designed by:	JL
Date:	3/29/2021	Drawn by:	UC
Scale:	AS SHOWN	Approved by:	JL

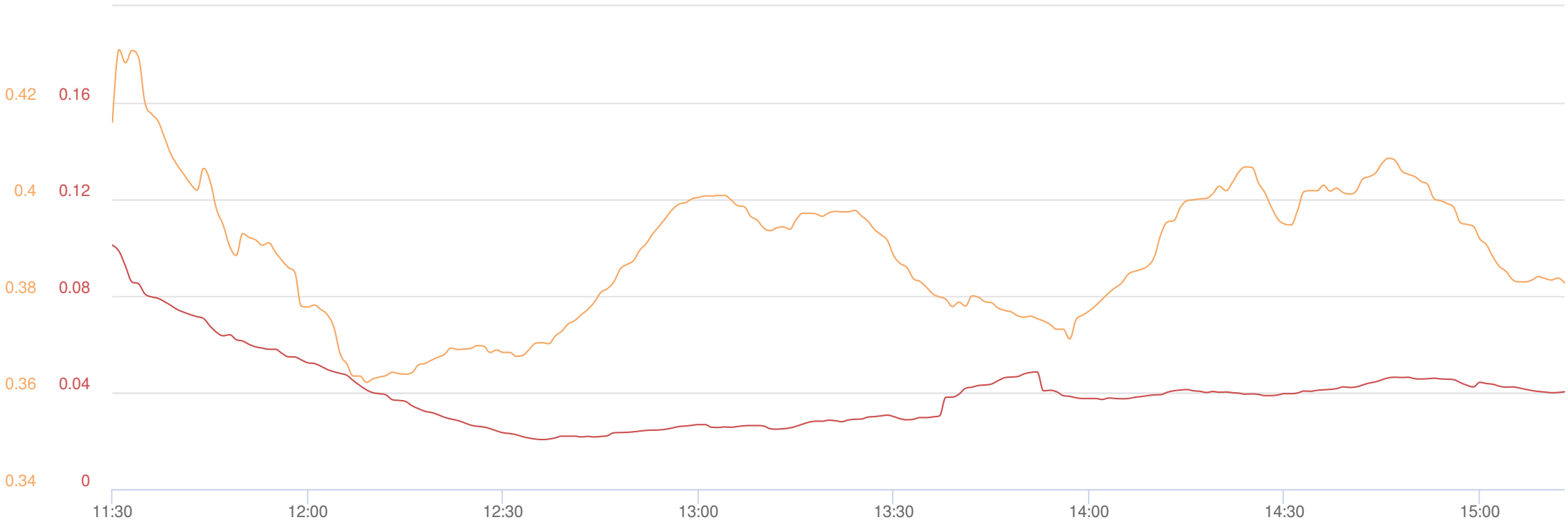
SITE PLAN

731-747 4th Ave
Brooklyn, NY

FIGURE NO:

2

Mon, 7th of Mar 2022, 11:30:00 – 16:35:10
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.0205	0.04	0.101

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0.3621	0.3888	0.431

Name	TOT2101 UW (FA03927)
S/N	0B448132
Description	(FA03927)
Location	759 4th Ave, Brooklyn, NY 11232, USA

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Device Timestamp (America/New_York)	Mass Conc. Total mg/m³ AVG 15m (mg/m³)	VOC ppm AVG 15m (ppm)
3/7/2022 11:30	0.101	0.416
3/7/2022 11:31	0.0985	0.431
3/7/2022 11:32	0.0923	0.4283
3/7/2022 11:33	0.0858	0.4308
3/7/2022 11:34	0.085	0.4294
3/7/2022 11:35	0.0808	0.42
3/7/2022 11:36	0.0796	0.4177
3/7/2022 11:37	0.079	0.4162
3/7/2022 11:38	0.0776	0.4128
3/7/2022 11:39	0.076	0.4093
3/7/2022 11:40	0.0743	0.407
3/7/2022 11:41	0.0732	0.4051
3/7/2022 11:42	0.0722	0.4032
3/7/2022 11:43	0.0714	0.4019
3/7/2022 11:44	0.0706	0.4064
3/7/2022 11:45	0.0675	0.4037
3/7/2022 11:46	0.0649	0.3979
3/7/2022 11:47	0.0635	0.3947
3/7/2022 11:48	0.0639	0.3903
3/7/2022 11:49	0.0619	0.3884
3/7/2022 11:50	0.0613	0.3929
3/7/2022 11:51	0.0599	0.3921
3/7/2022 11:52	0.0589	0.3916
3/7/2022 11:53	0.0584	0.3905
3/7/2022 11:54	0.0579	0.391
3/7/2022 11:55	0.0579	0.3891
3/7/2022 11:56	0.0563	0.3874
3/7/2022 11:57	0.0548	0.3859
3/7/2022 11:58	0.0547	0.3849
3/7/2022 11:59	0.0535	0.3779
3/7/2022 12:00	0.0523	0.3777
3/7/2022 12:01	0.052	0.3781
3/7/2022 12:02	0.0509	0.3772
3/7/2022 12:03	0.0495	0.3761
3/7/2022 12:04	0.0486	0.3735
3/7/2022 12:05	0.0479	0.3679
3/7/2022 12:06	0.0471	0.3659
3/7/2022 12:07	0.0449	0.3634
3/7/2022 12:08	0.0429	0.3634
3/7/2022 12:09	0.0411	0.3621
3/7/2022 12:10	0.0399	0.3628
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3/7/2022 12:12	0.039	0.3635
3/7/2022 12:13	0.037	0.3642
3/7/2022 12:14	0.0367	0.3639
3/7/2022 12:15	0.0363	0.3638
3/7/2022 12:16	0.0345	0.3641
3/7/2022 12:17	0.0333	0.3657
3/7/2022 12:18	0.0322	0.366
3/7/2022 12:19	0.0317	0.3667
3/7/2022 12:20	0.0308	0.3673
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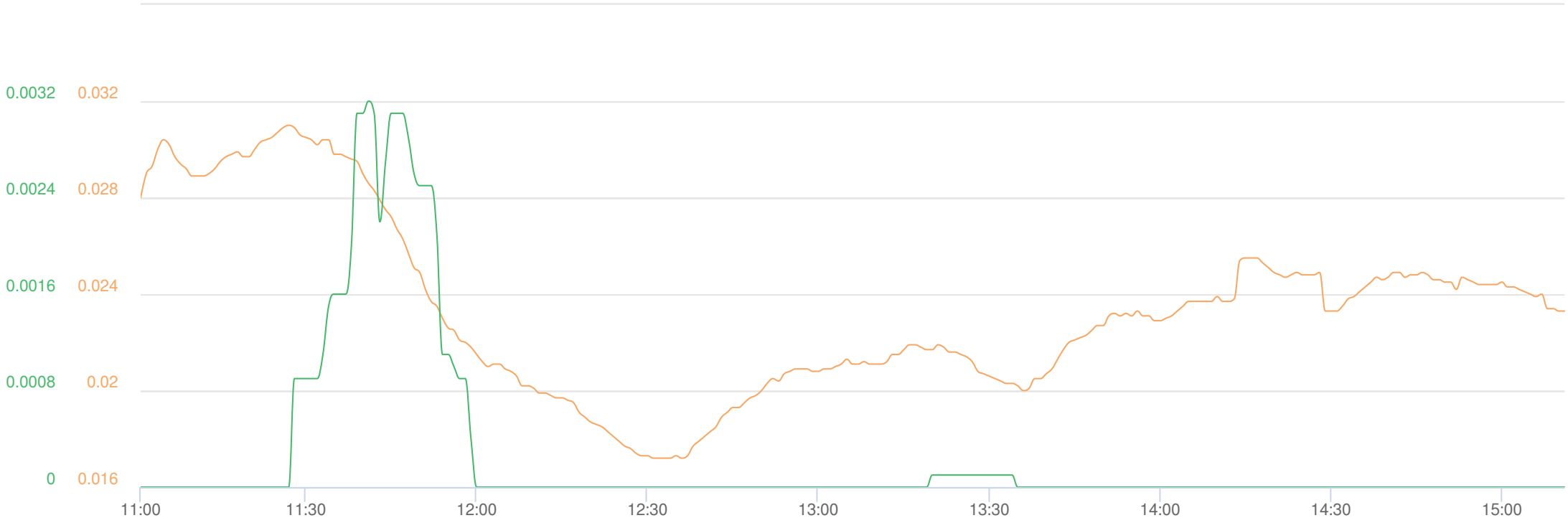
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3/7/2022 12:30	0.0233	0.3683
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3/7/2022 12:35	0.0207	0.3702
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3/7/2022 12:38	0.0212	0.3717
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3/7/2022 13:57	0.0384	0.3711
3/7/2022 13:58	0.0378	0.3751
3/7/2022 13:59	0.0375	0.376
3/7/2022 14:00	0.0375	0.3769
3/7/2022 14:01	0.0375	0.378
3/7/2022 14:02	0.0371	0.3793
3/7/2022 14:03	0.0377	0.3806
3/7/2022 14:04	0.0375	0.3817
3/7/2022 14:05	0.0374	0.3827
3/7/2022 14:06	0.0375	0.3845
3/7/2022 14:07	0.038	0.3851
3/7/2022 14:08	0.0383	0.3855
3/7/2022 14:09	0.0387	0.3862
3/7/2022 14:10	0.039	0.3881
3/7/2022 14:11	0.0391	0.3927
3/7/2022 14:12	0.0401	0.3953

3/7/2022 14:13	0.0407	0.3956
3/7/2022 14:14	0.041	0.3983
3/7/2022 14:15	0.0412	0.3997
3/7/2022 14:16	0.0407	0.3999
3/7/2022 14:17	0.0405	0.4001
3/7/2022 14:18	0.04	0.4002
3/7/2022 14:19	0.0404	0.4012
3/7/2022 14:20	0.0401	0.4027
3/7/2022 14:21	0.0402	0.4018
3/7/2022 14:22	0.0399	0.4035
3/7/2022 14:23	0.0397	0.4057
3/7/2022 14:24	0.0393	0.4067
3/7/2022 14:25	0.0394	0.4066
3/7/2022 14:26	0.0392	0.4034
3/7/2022 14:27	0.0387	0.4013
3/7/2022 14:28	0.0387	0.3983
3/7/2022 14:29	0.039	0.3959
3/7/2022 14:30	0.0395	0.3949
3/7/2022 14:31	0.0395	0.3947
3/7/2022 14:32	0.0398	0.3977
3/7/2022 14:33	0.0406	0.4016
3/7/2022 14:34	0.0405	0.4018
3/7/2022 14:35	0.0409	0.4018
3/7/2022 14:36	0.0411	0.4029
3/7/2022 14:37	0.0413	0.4017
3/7/2022 14:38	0.0416	0.4023
3/7/2022 14:39	0.0423	0.4014
3/7/2022 14:40	0.0421	0.4011
3/7/2022 14:41	0.0423	0.4017
3/7/2022 14:42	0.0431	0.4042
3/7/2022 14:43	0.0439	0.4047
3/7/2022 14:44	0.0444	0.4055
3/7/2022 14:45	0.0453	0.4075
3/7/2022 14:46	0.0461	0.4085
3/7/2022 14:47	0.0463	0.408
3/7/2022 14:48	0.0462	0.4059
3/7/2022 14:49	0.0463	0.4052
3/7/2022 14:50	0.0457	0.4047
3/7/2022 14:51	0.0456	0.4037
3/7/2022 14:52	0.0457	0.403
3/7/2022 14:53	0.0459	0.4001
3/7/2022 14:54	0.0456	0.3997
3/7/2022 14:55	0.0455	0.3991
3/7/2022 14:56	0.0453	0.3983
3/7/2022 14:57	0.0441	0.3952
3/7/2022 14:58	0.043	0.3948
3/7/2022 14:59	0.0423	0.3944
3/7/2022 15:00	0.0442	0.3918
3/7/2022 15:01	0.0437	0.3906
3/7/2022 15:02	0.0434	0.3881
3/7/2022 15:03	0.0426	0.3861
3/7/2022 15:04	0.0422	0.3851
3/7/2022 15:05	0.0423	0.3834
3/7/2022 15:06	0.0419	0.3829
3/7/2022 15:07	0.0413	0.3829

3/7/2022 15:08	0.0408	0.3833
3/7/2022 15:09	0.0404	0.384
3/7/2022 15:10	0.0402	0.3836
3/7/2022 15:11	0.0399	0.3833
3/7/2022 15:12	0.04	0.3837
3/7/2022 15:13	0.0403	0.3827

Mon, 7th of Mar 2022, 0:00:00 – 16:27:29
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.0172	0.0234	0.031

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0.0032

Name	TOT2101 DW (FA03793)
S/N	0B427035
Description	(FA03793)
Location	746 4th Ave, Brooklyn, NY 11232, USA

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Device	TOT2101 - CAMP Station - Downwind	
Timestamp (America/New_York)	Mass Conc. Total mg/m³ AVG 15m (mg/m³)	VOC ppm AVG 15m (ppm)
3/7/2022 11:00	0.028	0
3/7/2022 11:01	0.029	0
3/7/2022 11:02	0.0293	0
3/7/2022 11:03	0.03	0
3/7/2022 11:04	0.0304	0
3/7/2022 11:05	0.0302	0
3/7/2022 11:06	0.0297	0
3/7/2022 11:07	0.0294	0
3/7/2022 11:08	0.0292	0
3/7/2022 11:09	0.0289	0
3/7/2022 11:10	0.0289	0
3/7/2022 11:11	0.0289	0
3/7/2022 11:12	0.029	0
3/7/2022 11:13	0.0292	0
3/7/2022 11:14	0.0295	0
3/7/2022 11:15	0.0297	0
3/7/2022 11:16	0.0298	0
3/7/2022 11:17	0.0299	0
3/7/2022 11:18	0.0297	0
3/7/2022 11:19	0.0297	0
3/7/2022 11:20	0.03	0
3/7/2022 11:21	0.0303	0
3/7/2022 11:22	0.0304	0
3/7/2022 11:23	0.0305	0
3/7/2022 11:24	0.0307	0
3/7/2022 11:25	0.0309	0
3/7/2022 11:26	0.031	0
3/7/2022 11:28	0.0309	0.0009
3/7/2022 11:29	0.0306	0.0009
3/7/2022 11:30	0.0305	0.0009
3/7/2022 11:31	0.0304	0.0009
3/7/2022 11:32	0.0302	0.0009
3/7/2022 11:33	0.0304	0.0011
3/7/2022 11:34	0.0304	0.0015
3/7/2022 11:35	0.0298	0.0016
3/7/2022 11:36	0.0298	0.0016
3/7/2022 11:37	0.0297	0.0016
3/7/2022 11:38	0.0296	0.002
3/7/2022 11:39	0.0295	0.0031
3/7/2022 11:40	0.029	0.0031
3/7/2022 11:41	0.0286	0.0032
3/7/2022 11:42	0.0283	0.0031
3/7/2022 11:43	0.0279	0.0022
3/7/2022 11:44	0.0275	0.0027
3/7/2022 11:45	0.0272	0.0031
3/7/2022 11:46	0.0267	0.0031
3/7/2022 11:47	0.0263	0.0031
3/7/2022 11:48	0.0257	0.0029
3/7/2022 11:49	0.0251	0.0026
3/7/2022 11:50	0.0249	0.0025
3/7/2022 11:51	0.0242	0.0025
3/7/2022 11:52	0.0237	0.0025
3/7/2022 11:53	0.0235	0.0021
3/7/2022 11:54	0.023	0.0011
3/7/2022 11:55	0.0226	0.0011
3/7/2022 11:56	0.0225	0.001

3/7/2022 11:57	0.0221	0.0009
3/7/2022 11:58	0.022	0.0009
3/7/2022 11:59	0.0218	0.0004
3/7/2022 12:00	0.0215	0
3/7/2022 12:01	0.0212	0
3/7/2022 12:02	0.021	0
3/7/2022 12:03	0.0211	0
3/7/2022 12:04	0.0211	0
3/7/2022 12:05	0.0209	0
3/7/2022 12:06	0.0208	0
3/7/2022 12:07	0.0206	0
3/7/2022 12:08	0.0202	0
3/7/2022 12:09	0.0202	0
3/7/2022 12:10	0.0201	0
3/7/2022 12:11	0.0199	0
3/7/2022 12:12	0.0199	0
3/7/2022 12:13	0.0198	0
3/7/2022 12:14	0.0197	0
3/7/2022 12:15	0.0197	0
3/7/2022 12:16	0.0196	0
3/7/2022 12:17	0.0195	0
3/7/2022 12:18	0.0191	0
3/7/2022 12:19	0.0189	0
3/7/2022 12:20	0.0187	0
3/7/2022 12:21	0.0186	0
3/7/2022 12:22	0.0185	0
3/7/2022 12:23	0.0183	0
3/7/2022 12:24	0.0181	0
3/7/2022 12:25	0.0179	0
3/7/2022 12:26	0.0177	0
3/7/2022 12:27	0.0176	0
3/7/2022 12:28	0.0174	0
3/7/2022 12:29	0.0173	0
3/7/2022 12:30	0.0173	0
3/7/2022 12:31	0.0172	0
3/7/2022 12:32	0.0172	0
3/7/2022 12:33	0.0172	0
3/7/2022 12:34	0.0172	0
3/7/2022 12:35	0.0173	0
3/7/2022 12:36	0.0172	0
3/7/2022 12:37	0.0173	0
3/7/2022 12:38	0.0177	0
3/7/2022 12:39	0.0179	0
3/7/2022 12:40	0.0181	0
3/7/2022 12:41	0.0183	0
3/7/2022 12:42	0.0185	0
3/7/2022 12:43	0.0189	0
3/7/2022 12:44	0.0191	0
3/7/2022 12:45	0.0193	0
3/7/2022 12:46	0.0193	0
3/7/2022 12:47	0.0195	0
3/7/2022 12:48	0.0197	0
3/7/2022 12:49	0.0198	0
3/7/2022 12:50	0.02	0
3/7/2022 12:51	0.0203	0
3/7/2022 12:52	0.0205	0
3/7/2022 12:53	0.0204	0
3/7/2022 12:54	0.0207	0

3/7/2022 12:55	0.0208	0
3/7/2022 12:56	0.0209	0
3/7/2022 12:57	0.0209	0
3/7/2022 12:58	0.0209	0
3/7/2022 12:59	0.0208	0
3/7/2022 13:00	0.0208	0
3/7/2022 13:01	0.0209	0
3/7/2022 13:02	0.0209	0
3/7/2022 13:03	0.021	0
3/7/2022 13:04	0.0211	0
3/7/2022 13:05	0.0213	0
3/7/2022 13:06	0.0211	0
3/7/2022 13:07	0.0211	0
3/7/2022 13:08	0.0212	0
3/7/2022 13:09	0.0211	0
3/7/2022 13:10	0.0211	0
3/7/2022 13:11	0.0211	0
3/7/2022 13:12	0.0212	0
3/7/2022 13:13	0.0215	0
3/7/2022 13:14	0.0215	0
3/7/2022 13:15	0.0217	0
3/7/2022 13:16	0.0219	0
3/7/2022 13:17	0.0219	0
3/7/2022 13:18	0.0218	0
3/7/2022 13:19	0.0217	0
3/7/2022 13:20	0.0217	0.0001
3/7/2022 13:21	0.0219	0.0001
3/7/2022 13:22	0.0218	0.0001
3/7/2022 13:23	0.0216	0.0001
3/7/2022 13:24	0.0216	0.0001
3/7/2022 13:25	0.0215	0.0001
3/7/2022 13:26	0.0214	0.0001
3/7/2022 13:27	0.0212	0.0001
3/7/2022 13:28	0.0208	0.0001
3/7/2022 13:29	0.0207	0.0001
3/7/2022 13:30	0.0206	0.0001
3/7/2022 13:31	0.0205	0.0001
3/7/2022 13:32	0.0204	0.0001
3/7/2022 13:33	0.0203	0.0001
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3/7/2022 13:46	0.0222	0
3/7/2022 13:47	0.0223	0
3/7/2022 13:48	0.0225	0
3/7/2022 13:49	0.0227	0
3/7/2022 13:50	0.0227	0
3/7/2022 13:51	0.0231	0
3/7/2022 13:52	0.0232	0

3/7/2022 13:53	0.0231	0
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3/7/2022 13:57	0.0231	0
3/7/2022 13:58	0.0231	0
3/7/2022 13:59	0.0229	0
3/7/2022 14:00	0.0229	0
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3/7/2022 14:02	0.0231	0
3/7/2022 14:03	0.0233	0
3/7/2022 14:04	0.0235	0
3/7/2022 14:05	0.0237	0
3/7/2022 14:06	0.0237	0
3/7/2022 14:07	0.0237	0
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3/7/2022 14:09	0.0237	0
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3/7/2022 14:12	0.0237	0
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3/7/2022 14:18	0.0253	0
3/7/2022 14:19	0.0251	0
3/7/2022 14:20	0.0249	0
3/7/2022 14:21	0.0248	0
3/7/2022 14:22	0.0247	0
3/7/2022 14:23	0.0248	0
3/7/2022 14:24	0.0249	0
3/7/2022 14:25	0.0248	0
3/7/2022 14:26	0.0248	0
3/7/2022 14:27	0.0248	0
3/7/2022 14:28	0.0249	0
3/7/2022 14:29	0.0233	0
3/7/2022 14:30	0.0233	0
3/7/2022 14:31	0.0233	0
3/7/2022 14:32	0.0235	0
3/7/2022 14:33	0.0238	0
3/7/2022 14:34	0.0239	0
3/7/2022 14:35	0.0241	0
3/7/2022 14:36	0.0243	0
3/7/2022 14:37	0.0245	0
3/7/2022 14:38	0.0247	0
3/7/2022 14:39	0.0246	0
3/7/2022 14:40	0.0247	0
3/7/2022 14:41	0.0249	0
3/7/2022 14:42	0.0249	0
3/7/2022 14:43	0.0247	0
3/7/2022 14:44	0.0248	0
3/7/2022 14:45	0.0248	0
3/7/2022 14:46	0.0249	0
3/7/2022 14:47	0.0248	0
3/7/2022 14:48	0.0246	0
3/7/2022 14:49	0.0246	0
3/7/2022 14:50	0.0245	0

3/7/2022 14:51	0.0245	0
3/7/2022 14:52	0.0242	0
3/7/2022 14:53	0.0247	0
3/7/2022 14:54	0.0246	0
3/7/2022 14:55	0.0245	0
3/7/2022 14:56	0.0244	0
3/7/2022 14:57	0.0244	0
3/7/2022 14:58	0.0244	0
3/7/2022 14:59	0.0244	0
3/7/2022 15:00	0.0245	0
3/7/2022 15:01	0.0243	0
3/7/2022 15:02	0.0243	0
3/7/2022 15:03	0.0242	0
3/7/2022 15:04	0.0241	0
3/7/2022 15:05	0.024	0
3/7/2022 15:06	0.0239	0
3/7/2022 15:07	0.024	0
3/7/2022 15:08	0.0234	0
3/7/2022 15:09	0.0234	0
3/7/2022 15:10	0.0233	0
3/7/2022 15:11	0.0233	0

	DATE:	3/8/22	DAY:	Tuesday
	ON-SITE:	0700 am	OFF-SITE:	1520 pm
	NYSDEC Project #:	C224332		
	PWGC Project #:	TOT2101		

DAILY FIELD ACTIVITY REPORT	
PROJECT:	737 4th Avenue Site
LOCATION:	731-747 4th Avenue, Brooklyn, New York 11232
WEATHER:	Raining, 30-54 F, Wind west
SITE SAFETY OFFICER:	William Hamilton
ATTACHMENTS:	Langan Boring Site Plan, CAMP Readings

SUMMARY OF SITE ACTIVITIES

Langan and PWGC onsite to oversee installation of geotechnical drilling.

- Aarco Environmental finished installing a monitoring well at LB-10 to 100ft while Langan preformed geothechnical soil sampling.
- CAMP was preformed with ecorental station dust tracks and PID mini Rae Lite. No exceedences were detected.

PREPARED BY	**REVIEWED BY**
PRINT NAME: William Hamilton	PRINT NAME: Derek Ersbak, PG

	DATE:	3/8/22	DAY:	Tuesday
	ON-SITE:	0700 am	OFF-SITE:	1520 pm
	NYSDEC Project #:	C224332		
	PWGC Project #:	TOT2101		

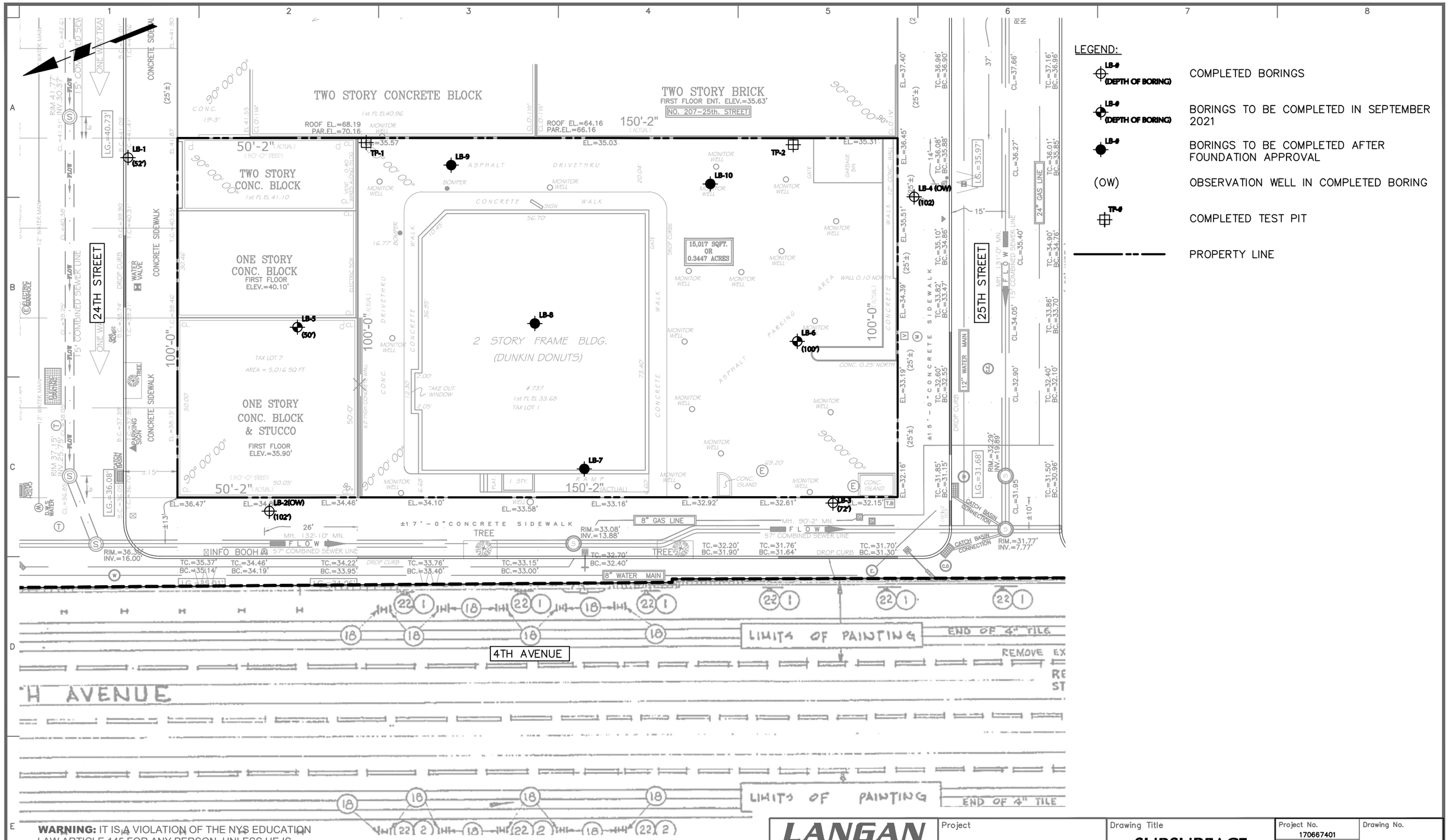
PHOTO LOG



View of LB-10.



View of downwind CAMP station.

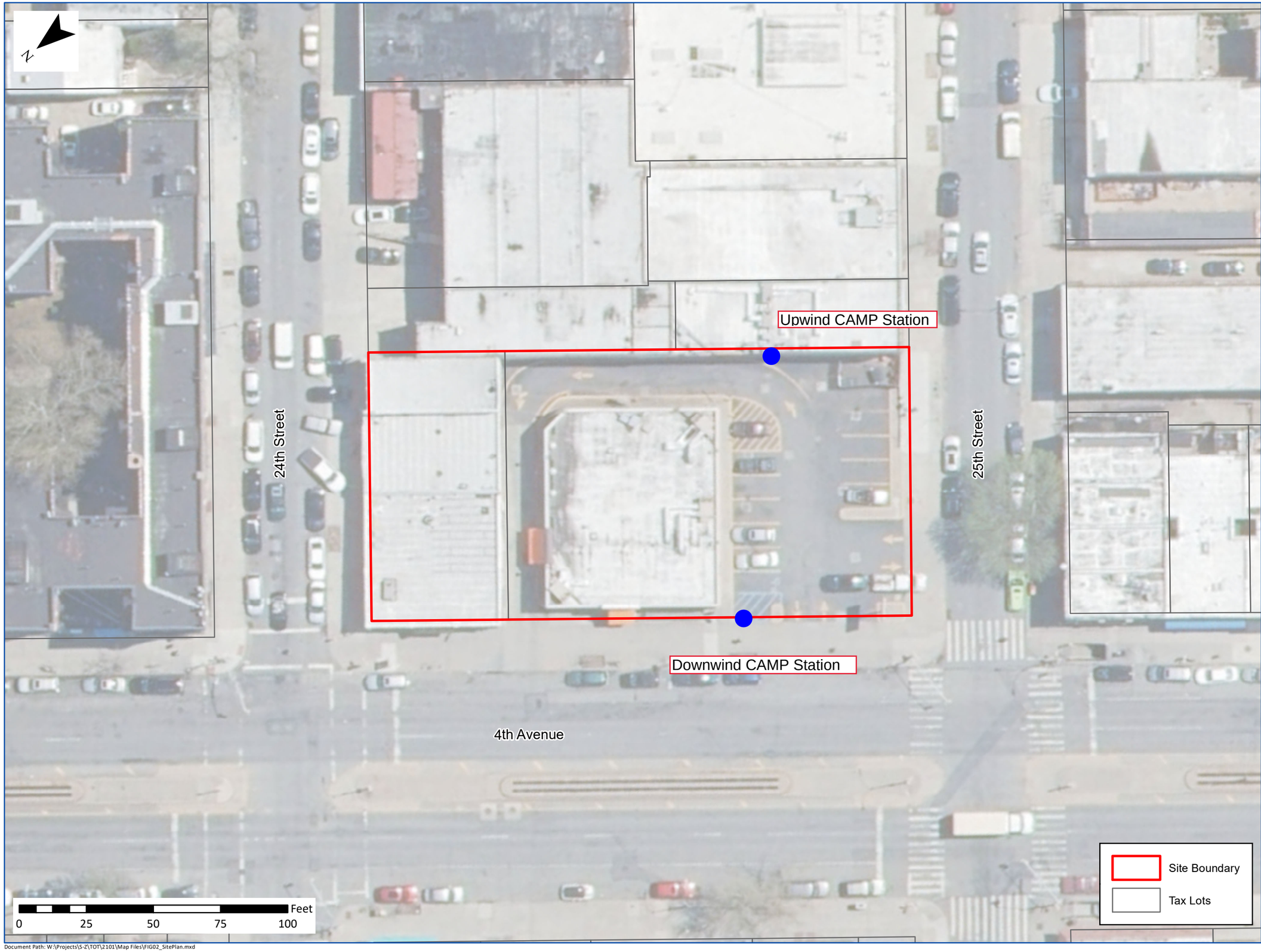


LANGAN
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New York, NY 10001
T: 212.479.5400 F: 212.479.5444 www.langan.com

Project	737 4TH AVENUE BLOCK No. 652 LOT No. 1, 7 BROOKLYN NEW YORK
Drawing Title	SUBSURFACE INVESTIGATION PLAN
Project No.	170667401
Date	08/17/2021
Drawn By	EK
Checked By	VV
Drawing No.	1
Sheet	1 of 1

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Filename: \\langan.com\data\NY\data4\170667401\Project Data\CAD\01\SheetFiles\Geotechnical\170667401-BI001-0102.dwg Date: 8/17/2021 Time: 17:51 User: ekyriacou Style Table: Langan.stb Layout: BLP



Document Path: W:\Projects\S-Z\TOT\2101\Map Files\FIG02_SitePlan.mxd

PWGC
CLIENT DRIVEN SOLUTIONS
P.W. Grosser Consulting Engineer & Hydrogeologist, PC
630 Johnson Ave., Suite 7
Bohemia, NY 11716
Ph: 631-589-6353 • Fax: 631-589-8705
pwgc.info@pwgrosser.com

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DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

Project:	TOT2101	Designed by:	JL
Date:	3/29/2021	Drawn by:	UC
Scale:	AS SHOWN	Approved by:	JL

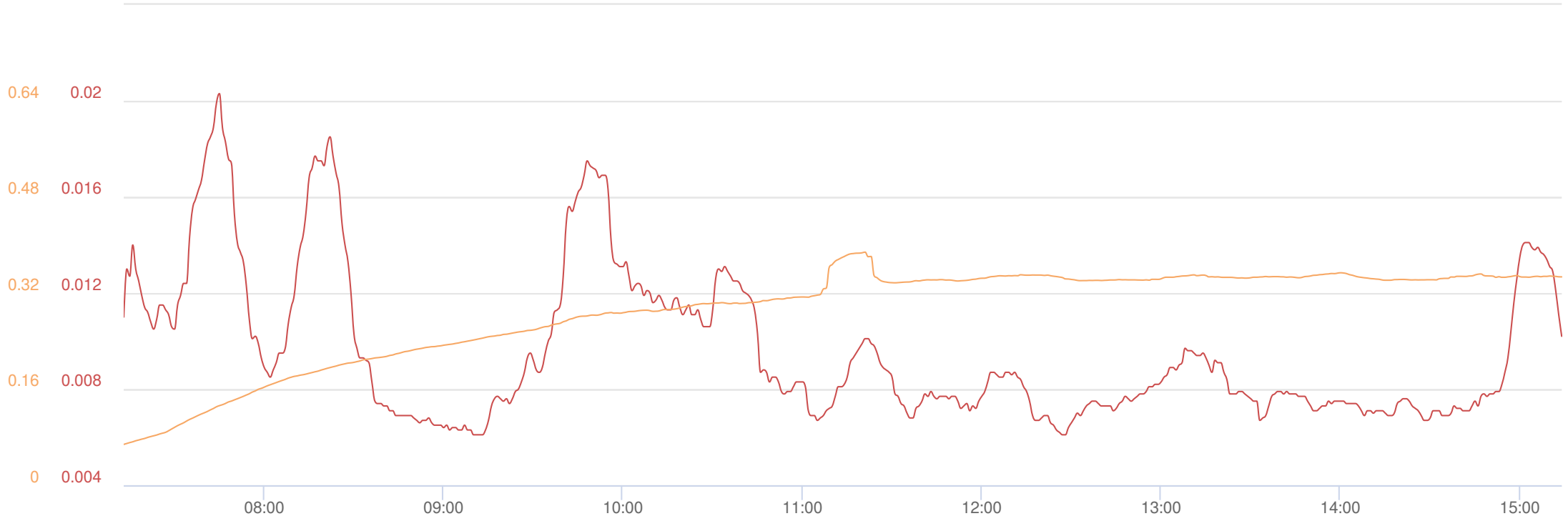
SITE PLAN

731-747 4th Ave
Brooklyn, NY

FIGURE NO:

2

03/08/2022 0:00:42 – 03/09/2022 0:00:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.0061	0.0096	0.0203

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0.068	0.2891	0.3881

Name	TOT2101 UW (FA03927)
S/N	0B448132
Description	(FA03927)
Location	759 4th Ave, Brooklyn, NY 11232, USA

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Device	TOT2101 - CAMP Station - Upwind	
Timestamp (America/New_York)	Mass Conc. Total mg/m³ AVG 15m (mg/m³)	VOC ppm AVG 15m (ppm)
3/8/2022 7:13	0.011	0.068
3/8/2022 7:14	0.013	0.0695
3/8/2022 7:15	0.0127	0.071
3/8/2022 7:16	0.014	0.0723
3/8/2022 7:17	0.013	0.074
3/8/2022 7:18	0.0125	0.0753
3/8/2022 7:19	0.0119	0.0767
3/8/2022 7:20	0.0114	0.0779
3/8/2022 7:21	0.0112	0.0796
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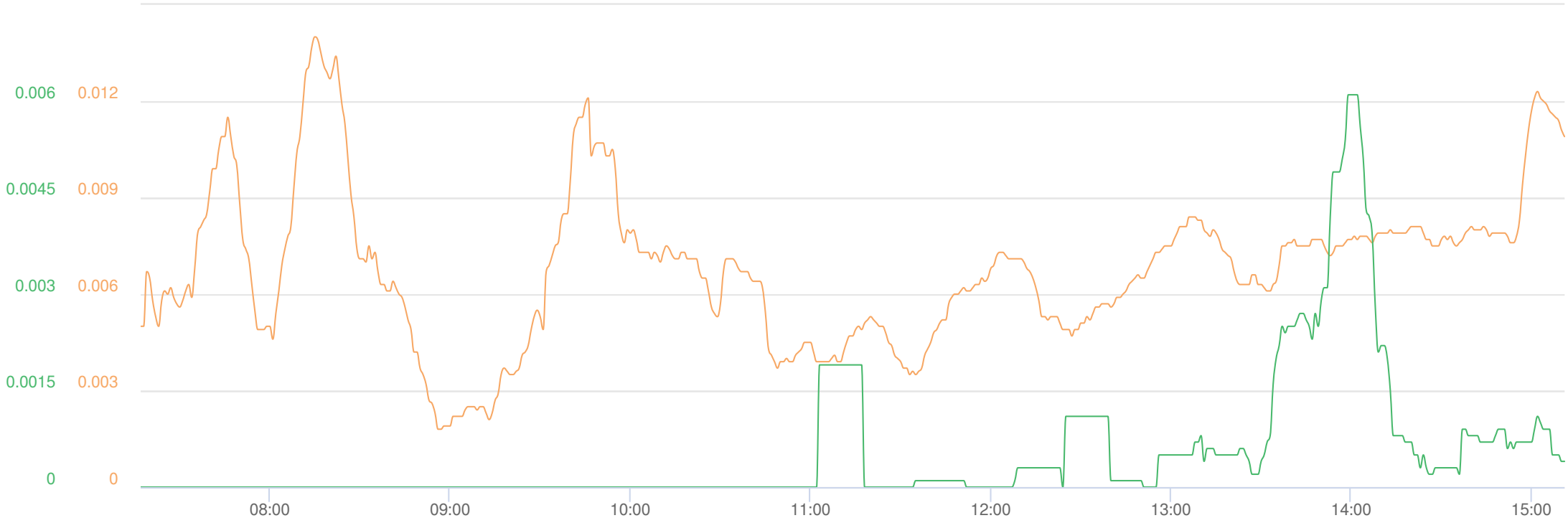
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3/8/2022 13:48	0.0077	0.3473
3/8/2022 13:49	0.0075	0.3477
3/8/2022 13:50	0.0073	0.3484
3/8/2022 13:51	0.0071	0.3495
3/8/2022 13:52	0.0071	0.3497
3/8/2022 13:53	0.0072	0.3505
3/8/2022 13:54	0.0073	0.3508
3/8/2022 13:55	0.0073	0.3515
3/8/2022 13:56	0.0075	0.3518
3/8/2022 13:57	0.0074	0.3525
3/8/2022 13:58	0.0075	0.3523
3/8/2022 13:59	0.0075	0.3531
3/8/2022 14:00	0.0075	0.3537
3/8/2022 14:01	0.0075	0.3533
3/8/2022 14:02	0.0074	0.3524
3/8/2022 14:03	0.0074	0.3506
3/8/2022 14:04	0.0074	0.3496
3/8/2022 14:05	0.0074	0.348
3/8/2022 14:06	0.0073	0.3468
3/8/2022 14:07	0.0071	0.3461
3/8/2022 14:08	0.0069	0.3454
3/8/2022 14:09	0.0071	0.3449
3/8/2022 14:10	0.0071	0.3441
3/8/2022 14:11	0.007	0.3437
3/8/2022 14:12	0.0071	0.3432
3/8/2022 14:13	0.0071	0.3428
3/8/2022 14:14	0.0071	0.3417
3/8/2022 14:15	0.007	0.3413
3/8/2022 14:16	0.0069	0.3413
3/8/2022 14:17	0.0069	0.3414
3/8/2022 14:18	0.007	0.3423
3/8/2022 14:19	0.0074	0.3424
3/8/2022 14:20	0.0075	0.3426
3/8/2022 14:21	0.0076	0.3426
3/8/2022 14:22	0.0076	0.3424
3/8/2022 14:23	0.0075	0.342
3/8/2022 14:24	0.0073	0.3418
3/8/2022 14:25	0.0072	0.342
3/8/2022 14:26	0.0071	0.3418
3/8/2022 14:27	0.0069	0.3419
3/8/2022 14:28	0.0067	0.3419
3/8/2022 14:29	0.0067	0.3421
3/8/2022 14:30	0.0068	0.3421
3/8/2022 14:31	0.0071	0.3421
3/8/2022 14:32	0.0071	0.3419
3/8/2022 14:33	0.0071	0.3436
3/8/2022 14:34	0.0069	0.3441
3/8/2022 14:35	0.0069	0.3444
3/8/2022 14:36	0.0069	0.3444
3/8/2022 14:37	0.007	0.3467
3/8/2022 14:38	0.0073	0.3466

3/8/2022 14:39	0.0072	0.3478
3/8/2022 14:40	0.0072	0.3478
3/8/2022 14:41	0.0071	0.3477
3/8/2022 14:42	0.0071	0.3476
3/8/2022 14:43	0.0071	0.3483
3/8/2022 14:44	0.0073	0.3485
3/8/2022 14:45	0.0075	0.3501
3/8/2022 14:46	0.0073	0.3513
3/8/2022 14:47	0.0077	0.3517
3/8/2022 14:48	0.0078	0.3491
3/8/2022 14:49	0.0077	0.3485
3/8/2022 14:50	0.0078	0.3484
3/8/2022 14:51	0.0078	0.3481
3/8/2022 14:52	0.0079	0.3462
3/8/2022 14:53	0.0079	0.3471
3/8/2022 14:54	0.0082	0.3462
3/8/2022 14:55	0.0087	0.3462
3/8/2022 14:56	0.0093	0.3469
3/8/2022 14:57	0.0104	0.3475
3/8/2022 14:58	0.0116	0.3485
3/8/2022 14:59	0.0126	0.3491
3/8/2022 15:00	0.0135	0.3473
3/8/2022 15:01	0.014	0.3466
3/8/2022 15:02	0.0141	0.3466
3/8/2022 15:03	0.0141	0.3463
3/8/2022 15:04	0.0139	0.3469
3/8/2022 15:05	0.0138	0.3476
3/8/2022 15:06	0.0139	0.3478
3/8/2022 15:07	0.0137	0.3471
3/8/2022 15:08	0.0136	0.3478
3/8/2022 15:09	0.0134	0.3477
3/8/2022 15:10	0.0131	0.3483
3/8/2022 15:11	0.0129	0.3479
3/8/2022 15:12	0.0121	0.3477
3/8/2022 15:13	0.0111	0.347
3/8/2022 15:14	0.0102	0.3469

03/08/2022 0:00:08 – 03/09/2022 0:00:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.0018	0.0068	0.014

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.0005	0.0061

Name TOT2101 DW (FA03793)
S/N 0B427035
Description (FA03793)
Location 746 4th Ave, Brooklyn, NY 11232, USA

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Device	TOT2101 - CAMP Station - Downwind	
Timestamp (America/New_York)	Mass Conc. Total mg/m³ AVG 15m (mg/m³)	VOC ppm AVG 15m (ppm)
3/8/2022 7:17	0.005	0
3/8/2022 7:18	0.005	0
3/8/2022 7:19	0.0067	0
3/8/2022 7:20	0.0065	0
3/8/2022 7:21	0.0058	0
3/8/2022 7:22	0.0053	0
3/8/2022 7:23	0.005	0
3/8/2022 7:24	0.0058	0
3/8/2022 7:25	0.0061	0
3/8/2022 7:26	0.006	0
3/8/2022 7:27	0.0062	0
3/8/2022 7:28	0.0059	0
3/8/2022 7:29	0.0057	0
3/8/2022 7:30	0.0056	0
3/8/2022 7:31	0.0058	0
3/8/2022 7:32	0.0061	0
3/8/2022 7:33	0.0063	0
3/8/2022 7:34	0.0059	0
3/8/2022 7:35	0.0068	0
3/8/2022 7:36	0.0079	0
3/8/2022 7:37	0.0081	0
3/8/2022 7:38	0.0083	0
3/8/2022 7:39	0.0085	0
3/8/2022 7:40	0.0092	0
3/8/2022 7:41	0.0099	0
3/8/2022 7:42	0.0099	0
3/8/2022 7:43	0.0105	0
3/8/2022 7:44	0.0109	0
3/8/2022 7:45	0.0109	0
3/8/2022 7:46	0.0115	0
3/8/2022 7:47	0.0109	0
3/8/2022 7:48	0.0103	0
3/8/2022 7:49	0.01	0
3/8/2022 7:50	0.0088	0
3/8/2022 7:51	0.0077	0
3/8/2022 7:52	0.0074	0
3/8/2022 7:53	0.0071	0
3/8/2022 7:54	0.0063	0
3/8/2022 7:55	0.0055	0
3/8/2022 7:56	0.0049	0
3/8/2022 7:57	0.0049	0
3/8/2022 7:58	0.0049	0
3/8/2022 7:59	0.005	0
3/8/2022 8:00	0.005	0
3/8/2022 8:01	0.0046	0
3/8/2022 8:02	0.0054	0
3/8/2022 8:03	0.0061	0
3/8/2022 8:04	0.0069	0
3/8/2022 8:05	0.0074	0
3/8/2022 8:06	0.0078	0
3/8/2022 8:07	0.0081	0
3/8/2022 8:08	0.0093	0
3/8/2022 8:09	0.0104	0

3/8/2022 8:10	0.0109	0
3/8/2022 8:11	0.0119	0
3/8/2022 8:12	0.0129	0
3/8/2022 8:13	0.0131	0
3/8/2022 8:14	0.0137	0
3/8/2022 8:15	0.014	0
3/8/2022 8:16	0.0139	0
3/8/2022 8:17	0.0135	0
3/8/2022 8:18	0.0131	0
3/8/2022 8:19	0.0129	0
3/8/2022 8:20	0.0127	0
3/8/2022 8:21	0.013	0
3/8/2022 8:22	0.0134	0
3/8/2022 8:23	0.0127	0
3/8/2022 8:24	0.0119	0
3/8/2022 8:25	0.0113	0
3/8/2022 8:26	0.0102	0
3/8/2022 8:27	0.0091	0
3/8/2022 8:28	0.0084	0
3/8/2022 8:29	0.0074	0
3/8/2022 8:30	0.0071	0
3/8/2022 8:31	0.0071	0
3/8/2022 8:32	0.007	0
3/8/2022 8:33	0.0075	0
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3/8/2022 8:37	0.0063	0
3/8/2022 8:38	0.0063	0
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3/8/2022 8:40	0.0061	0
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3/8/2022 8:42	0.0062	0
3/8/2022 8:43	0.006	0
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3/8/2022 8:45	0.0056	0
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3/8/2022 8:48	0.0042	0
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3/8/2022 8:53	0.0027	0
3/8/2022 8:54	0.0026	0
3/8/2022 8:55	0.0023	0
3/8/2022 8:56	0.0018	0
3/8/2022 8:57	0.0018	0
3/8/2022 8:58	0.0019	0
3/8/2022 8:59	0.0019	0
3/8/2022 9:00	0.0019	0
3/8/2022 9:01	0.0022	0
3/8/2022 9:02	0.0022	0
3/8/2022 9:03	0.0022	0
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3/8/2022 9:06	0.0025	0
3/8/2022 9:07	0.0025	0
3/8/2022 9:08	0.0025	0
3/8/2022 9:09	0.0024	0
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3/8/2022 9:13	0.0021	0
3/8/2022 9:14	0.0023	0
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3/8/2022 9:16	0.0029	0
3/8/2022 9:17	0.0035	0
3/8/2022 9:18	0.0037	0
3/8/2022 9:19	0.0036	0
3/8/2022 9:20	0.0035	0
3/8/2022 9:21	0.0035	0
3/8/2022 9:22	0.0036	0
3/8/2022 9:23	0.0037	0
3/8/2022 9:24	0.0041	0
3/8/2022 9:25	0.0042	0
3/8/2022 9:26	0.0044	0
3/8/2022 9:27	0.0049	0
3/8/2022 9:28	0.0053	0
3/8/2022 9:29	0.0055	0
3/8/2022 9:30	0.0053	0
3/8/2022 9:31	0.0049	0
3/8/2022 9:32	0.0067	0
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3/8/2022 9:36	0.0076	0
3/8/2022 9:37	0.0083	0
3/8/2022 9:38	0.0085	0
3/8/2022 9:39	0.0085	0
3/8/2022 9:40	0.0095	0
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3/8/2022 9:42	0.0113	0
3/8/2022 9:43	0.0115	0
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3/8/2022 9:55	0.0099	0
3/8/2022 9:56	0.0085	0
3/8/2022 9:57	0.0079	0
3/8/2022 9:58	0.0076	0
3/8/2022 9:59	0.008	0

3/8/2022 10:00	0.0079	0
3/8/2022 10:01	0.008	0
3/8/2022 10:02	0.0077	0
3/8/2022 10:03	0.0073	0
3/8/2022 10:04	0.0073	0
3/8/2022 10:05	0.0073	0
3/8/2022 10:06	0.0073	0
3/8/2022 10:07	0.0071	0
3/8/2022 10:08	0.0073	0
3/8/2022 10:09	0.0072	0
3/8/2022 10:10	0.007	0
3/8/2022 10:11	0.0073	0
3/8/2022 10:12	0.0075	0
3/8/2022 10:13	0.0074	0
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3/8/2022 10:16	0.0071	0
3/8/2022 10:17	0.0073	0
3/8/2022 10:18	0.0073	0
3/8/2022 10:19	0.0071	0
3/8/2022 10:20	0.0071	0
3/8/2022 10:21	0.0071	0
3/8/2022 10:22	0.0071	0
3/8/2022 10:23	0.0067	0
3/8/2022 10:24	0.0065	0
3/8/2022 10:25	0.0065	0
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3/8/2022 10:27	0.0056	0
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3/8/2022 10:31	0.0067	0
3/8/2022 10:32	0.0071	0
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3/8/2022 10:36	0.0068	0
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3/8/2022 10:38	0.0067	0
3/8/2022 10:39	0.0067	0
3/8/2022 10:40	0.0065	0
3/8/2022 10:41	0.0064	0
3/8/2022 10:42	0.0064	0
3/8/2022 10:43	0.0064	0
3/8/2022 10:44	0.0062	0
3/8/2022 10:45	0.0054	0
3/8/2022 10:46	0.0043	0
3/8/2022 10:47	0.0041	0
3/8/2022 10:48	0.0039	0
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3/8/2022 10:52	0.004	0
3/8/2022 10:53	0.0039	0
3/8/2022 10:54	0.0039	0

3/8/2022 10:55	0.0041	0
3/8/2022 10:56	0.0042	0
3/8/2022 10:57	0.0043	0
3/8/2022 10:58	0.0045	0
3/8/2022 10:59	0.0045	0
3/8/2022 11:00	0.0045	0
3/8/2022 11:01	0.0042	0
3/8/2022 11:02	0.0039	0
3/8/2022 11:03	0.0039	0.0019
3/8/2022 11:04	0.0039	0.0019
3/8/2022 11:05	0.0039	0.0019
3/8/2022 11:06	0.0039	0.0019
3/8/2022 11:07	0.004	0.0019
3/8/2022 11:08	0.0041	0.0019
3/8/2022 11:09	0.0039	0.0019
3/8/2022 11:10	0.0039	0.0019
3/8/2022 11:11	0.0042	0.0019
3/8/2022 11:12	0.0045	0.0019
3/8/2022 11:13	0.0047	0.0019
3/8/2022 11:14	0.0047	0.0019
3/8/2022 11:15	0.0049	0.0019
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3/8/2022 11:18	0.0051	0
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3/8/2022 11:33	0.0035	0
3/8/2022 11:34	0.0036	0
3/8/2022 11:35	0.0035	0.0001
3/8/2022 11:36	0.0036	0.0001
3/8/2022 11:37	0.0037	0.0001
3/8/2022 11:38	0.0041	0.0001
3/8/2022 11:39	0.0043	0.0001
3/8/2022 11:40	0.0045	0.0001
3/8/2022 11:41	0.0048	0.0001
3/8/2022 11:42	0.0049	0.0001
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3/8/2022 11:44	0.0052	0.0001
3/8/2022 11:45	0.0052	0.0001
3/8/2022 11:46	0.0057	0.0001
3/8/2022 11:47	0.0059	0.0001
3/8/2022 11:48	0.006	0.0001
3/8/2022 11:49	0.006	0.0001

3/8/2022 11:50	0.0061	0.0001
3/8/2022 11:51	0.0062	0.0001
3/8/2022 11:52	0.0061	0
3/8/2022 11:53	0.0061	0
3/8/2022 11:54	0.0062	0
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3/8/2022 11:57	0.0065	0
3/8/2022 11:58	0.0064	0
3/8/2022 11:59	0.0065	0
3/8/2022 12:00	0.0068	0
3/8/2022 12:01	0.0069	0
3/8/2022 12:02	0.0072	0
3/8/2022 12:03	0.0073	0
3/8/2022 12:04	0.0073	0
3/8/2022 12:05	0.0072	0
3/8/2022 12:06	0.0071	0
3/8/2022 12:07	0.0071	0
3/8/2022 12:08	0.0071	0.0001
3/8/2022 12:09	0.0071	0.0003
3/8/2022 12:10	0.0071	0.0003
3/8/2022 12:11	0.007	0.0003
3/8/2022 12:12	0.0068	0.0003
3/8/2022 12:13	0.0067	0.0003
3/8/2022 12:14	0.0065	0.0003
3/8/2022 12:15	0.0062	0.0003
3/8/2022 12:16	0.0058	0.0003
3/8/2022 12:17	0.0053	0.0003
3/8/2022 12:18	0.0053	0.0003
3/8/2022 12:19	0.0052	0.0003
3/8/2022 12:20	0.0053	0.0003
3/8/2022 12:21	0.0053	0.0003
3/8/2022 12:22	0.0053	0.0003
3/8/2022 12:23	0.0051	0.0003
3/8/2022 12:24	0.0049	0
3/8/2022 12:25	0.0049	0.0011
3/8/2022 12:26	0.0049	0.0011
3/8/2022 12:27	0.0047	0.0011
3/8/2022 12:28	0.0049	0.0011
3/8/2022 12:29	0.0049	0.0011
3/8/2022 12:30	0.0051	0.0011
3/8/2022 12:31	0.0051	0.0011
3/8/2022 12:32	0.0053	0.0011
3/8/2022 12:33	0.0052	0.0011
3/8/2022 12:34	0.0054	0.0011
3/8/2022 12:35	0.0056	0.0011
3/8/2022 12:36	0.0056	0.0011
3/8/2022 12:37	0.0057	0.0011
3/8/2022 12:38	0.0057	0.0011
3/8/2022 12:39	0.0057	0.0011
3/8/2022 12:40	0.0056	0.0001
3/8/2022 12:41	0.0057	0.0001
3/8/2022 12:42	0.0059	0.0001
3/8/2022 12:43	0.0059	0.0001
3/8/2022 12:44	0.006	0.0001

3/8/2022 12:45	0.0061	0.0001
3/8/2022 12:46	0.0063	0.0001
3/8/2022 12:47	0.0064	0.0001
3/8/2022 12:48	0.0065	0.0001
3/8/2022 12:49	0.0066	0.0001
3/8/2022 12:50	0.0065	0.0001
3/8/2022 12:51	0.0065	0
3/8/2022 12:52	0.0067	0
3/8/2022 12:53	0.0069	0
3/8/2022 12:54	0.0071	0
3/8/2022 12:55	0.0073	0
3/8/2022 12:56	0.0073	0.0005
3/8/2022 12:57	0.0074	0.0005
3/8/2022 12:58	0.0075	0.0005
3/8/2022 12:59	0.0075	0.0005
3/8/2022 13:00	0.0075	0.0005
3/8/2022 13:01	0.0077	0.0005
3/8/2022 13:02	0.0079	0.0005
3/8/2022 13:03	0.0081	0.0005
3/8/2022 13:04	0.0081	0.0005
3/8/2022 13:05	0.0081	0.0005
3/8/2022 13:06	0.0084	0.0005
3/8/2022 13:07	0.0084	0.0005
3/8/2022 13:08	0.0084	0.0007
3/8/2022 13:09	0.0083	0.0007
3/8/2022 13:10	0.0083	0.0008
3/8/2022 13:11	0.008	0.0004
3/8/2022 13:12	0.0079	0.0006
3/8/2022 13:13	0.0078	0.0006
3/8/2022 13:14	0.008	0.0006
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3/8/2022 13:30	0.0063	0.0004
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3/8/2022 13:38	0.0075	0.0024
3/8/2022 13:39	0.0076	0.0025

3/8/2022 13:40	0.0076	0.0025
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3/8/2022 14:22	0.0081	0.0005
3/8/2022 14:23	0.0081	0.0003
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3/8/2022 14:31	0.0078	0.0003
3/8/2022 14:32	0.0077	0.0003
3/8/2022 14:33	0.0078	0.0003
3/8/2022 14:34	0.0076	0.0003

3/8/2022 14:35	0.0075	0.0003
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3/8/2022 14:43	0.008	0.0007
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3/8/2022 14:45	0.008	0.0007
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3/8/2022 14:59	0.0111	0.0007
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3/8/2022 15:06	0.0117	0.0009
3/8/2022 15:07	0.0116	0.0005
3/8/2022 15:08	0.0115	0.0005
3/8/2022 15:09	0.0114	0.0005
3/8/2022 15:10	0.0111	0.0004
3/8/2022 15:11	0.0109	0.0004

PWGC	DATE:	3/10/22	DAY:	Thursday
	ON-SITE:	0700h	OFF-SITE:	1800h
	NYSDEC Project #:	C224332		
	PWGC Project #:	TOT2101		

DAILY FIELD ACTIVITY REPORT	
PROJECT:	737 4th Avenue Site
LOCATION:	731-747 4th Avenue, Brooklyn, New York 11232
WEATHER:	Partly Cloudy, 35-50 F, Wind Northeast
SITE SAFETY OFFICER:	William Hamilton
ATTACHMENTS:	Langan Boring Site Plan, Groundwater Sample Figure, Soil Vapor Sample Figure, CAMP Readings

SUMMARY OF SITE ACTIVITIES

Langan and PWGC onsite to oversee installation of geotechnical drilling by AARCO Environmental. PWGC onsite to perform field work outlined in the Remedial Investigation Work Plan

CAMP Oversight

- Ecorental dust track and PID mini RAE lite were recording for the duration of ground intrusion. No exceedences were detected.

Geotechnical Drilling

- AARCO Environmental drilled LB-8 in the basement of Dunkin' Donuts to facilitate Langan's geotechnical soil sampling. Drilling ceased at 50ft as a result of refusal.

Soil Vapor and Air Sampling

- Soil vapor samples SV001 – SV006, sub-slab soil vapor samples SS001 – SS004, and indoor ambient air samples IA001 – IA003 were collected.
  - Soil vapor samples were purged using a low-flow peristaltic pump.
  - A helium leak test was performed for each soil vapor sample to ensure a proper seal prior to sampling.
  - All samples were fitted with 8-hour flow controllers.
  - One air canister (ID: 946) lacked a vacuum upon the onset of sampling and was deemed improperly calibrated or damaged based on troubleshooting with the lab. Therefore, an outdoor ambient air sample was not collected.

Groundwater Sampling

- Groundwater Samples MW-31, MW-06, MW-84, MW-81, MW-82, MW-3, and MW-8 were collected using low-flow sampling procedures.

LNAPL Sampling

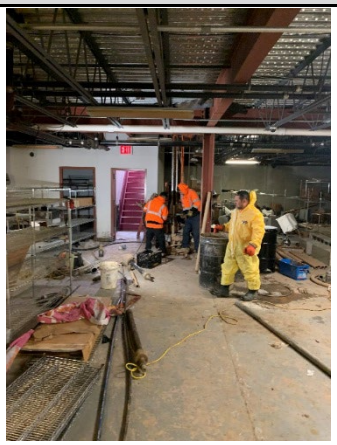
- Monitoring wells containing LNAPL based in gauging the previous week were further investigated. LNAPL from each well was collected using a polyethylene bailer and observations were documented. LNAPL within each bailer appeared to be red to reddish-brown in color. Samples for LNAPL fingerprint analysis were collected from MW-8A, MW-9, and MW-80.

Samples were submitted to Alpha Analytical Laboratories (AAL) via courier service under COC. The samples will be analyzed by AAL in accordance with the procedures in the RIWP.

PREPARED BY	**REVIEWED BY**
PRINT NAME: William Hamilton	PRINT NAME: Derek Ersbak, PG

PWGC	DATE:	3/10/22	DAY:	Thursday
	ON-SITE:	0700h	OFF-SITE:	1800h
	NYSDEC Project #:	C224332		
	PWGC Project #:	TOT2101		

PHOTO LOG



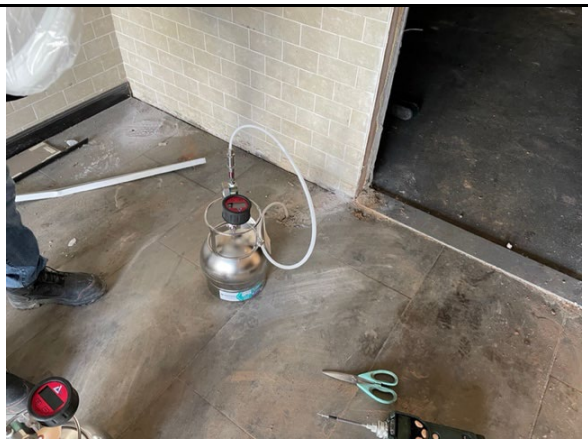
View of LB-8.



View of upwind CAMP station.



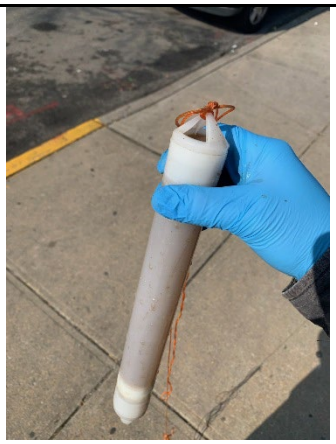
View of purging SV001 with peri-pump.



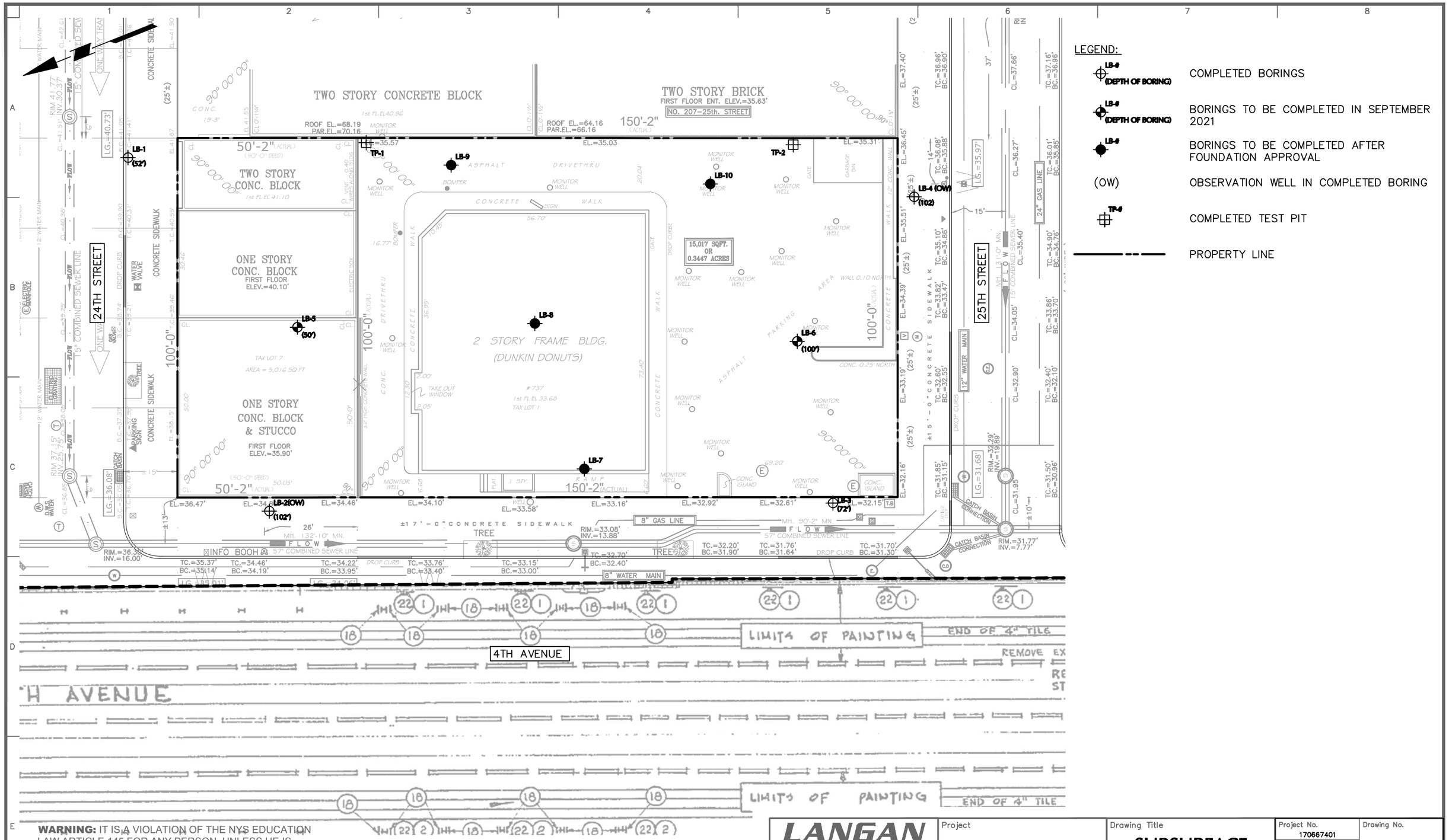
View of sub-slab sample SS003.



View of GW sample collection at MW-6.



View of LNAPL sample collection at MW-8A.

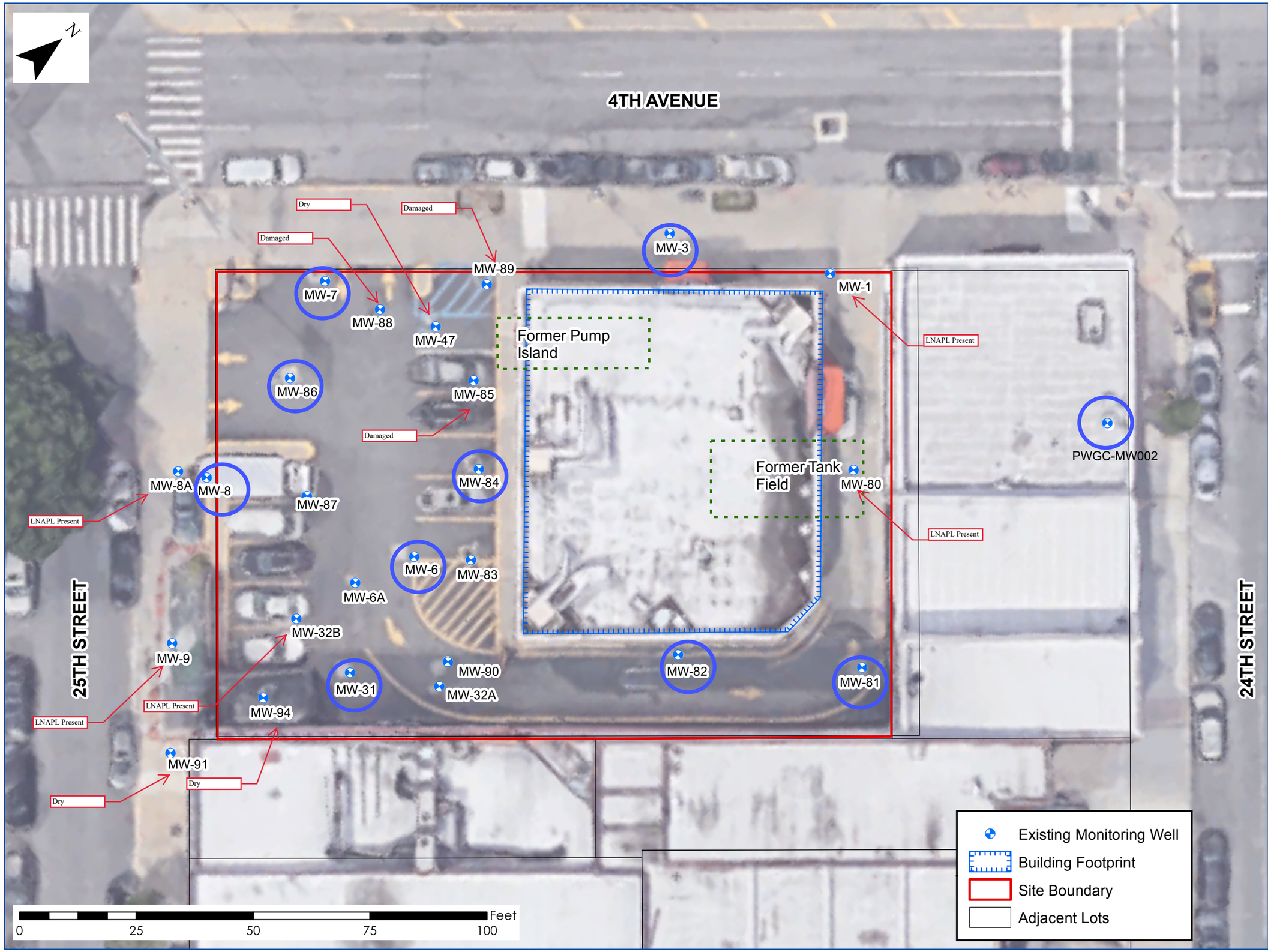


LANGAN
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Project	737 4TH AVENUE BLOCK No. 652 LOT No. 1, 7 BROOKLYN NEW YORK
Drawing Title	SUBSURFACE INVESTIGATION PLAN
Project No.	170667401
Date	08/17/2021
Drawn By	EK
Checked By	VV
Drawing No.	1
Sheet	1 of 1

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Filename: \\langan.com\data\NY\data4\170667401\Project Data\CAD\01\SheetFiles\Geotechnical\170667401-BI001-0102.dwg Date: 8/17/2021 Time: 17:51 User: ekyriacou Style Table: Langan.stb Layout: BLP



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Strategic Environmental and Engineering Solutions

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Date:	8/2/2018	Drawn by:	TS
Scale:	AS SHOWN	Approved by:	LS

SITE PLAN WITH EXISTING MONITORING WELL LOCATIONS

737-747 4TH AVE
BROOKLYN, NY

FIGURE NO:

2

Document Path: W:\Projects\S-Z\TOT\1801\mapfiles\FIG02_SitePlan_v4.mxd



Document Path: W:\Projects\S-Z\TOT\2101\ProjectFiles\TOT2101_RIWP_Figures\TOT2101_RIWP_Figures.aprx

PWGC
CLIENT DRIVEN SOLUTIONS
P.W. Grosser Consulting Engineer & Hydrogeologist, PC
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Bohemia, NY 11716
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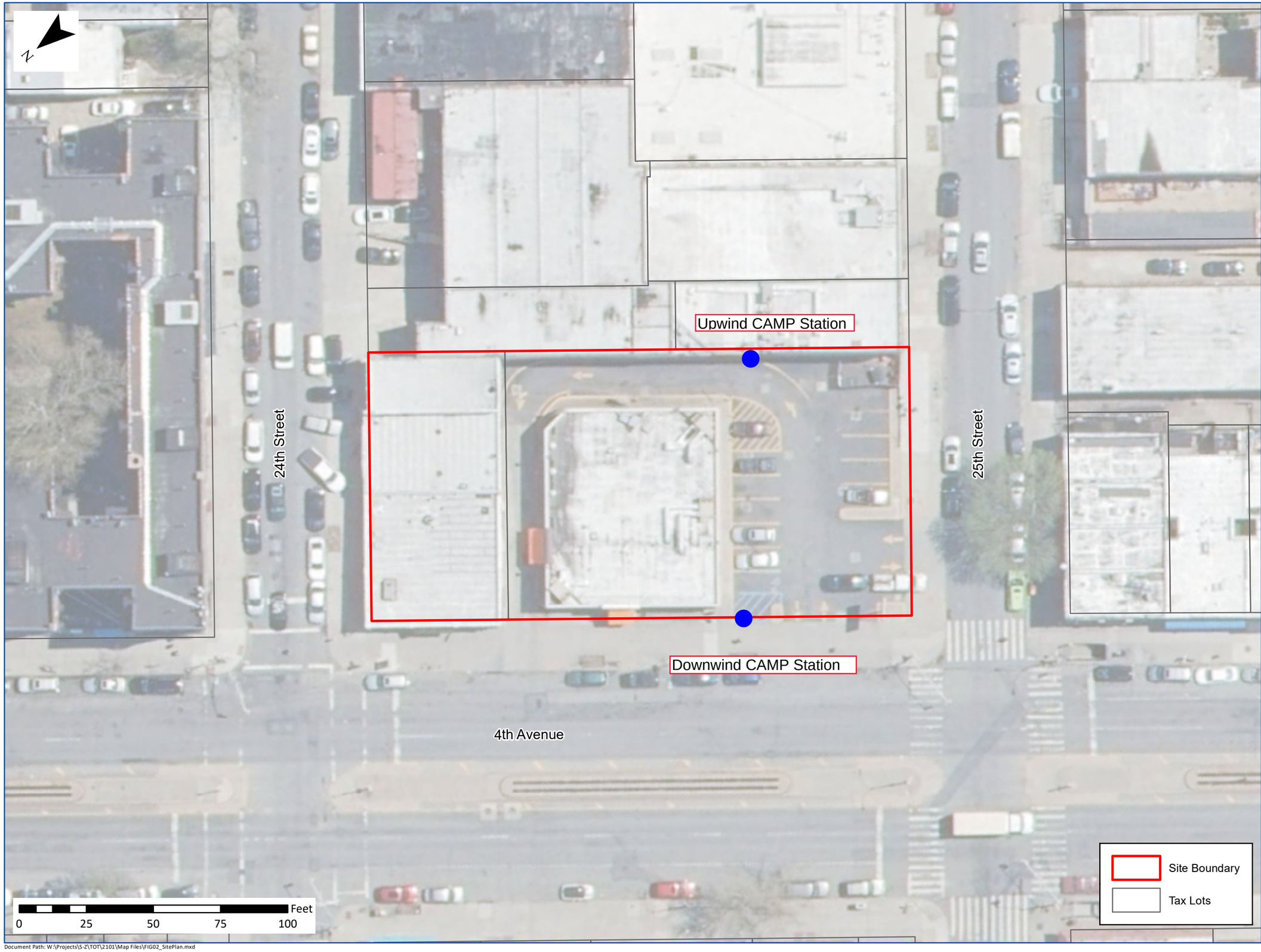
Project:	TOT2101	Designed by:	JL
Date:	2/16/2022	Drawn by:	OA
Scale:	AS SHOWN	Approved by:	JL

Proposed Soil Vapor Sampling Locations

731-737 4th Ave
Brooklyn, NY

FIGURE NO:

6



Document Path: W:\Projects\S-Z\TOT\2101\Map Files\FIG02_SitePlan.mxd

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REVISION	DATE	INITIAL	COMMENTS

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Date:	3/29/2021	Drawn by:	UC
Scale:	AS SHOWN	Approved by:	JL

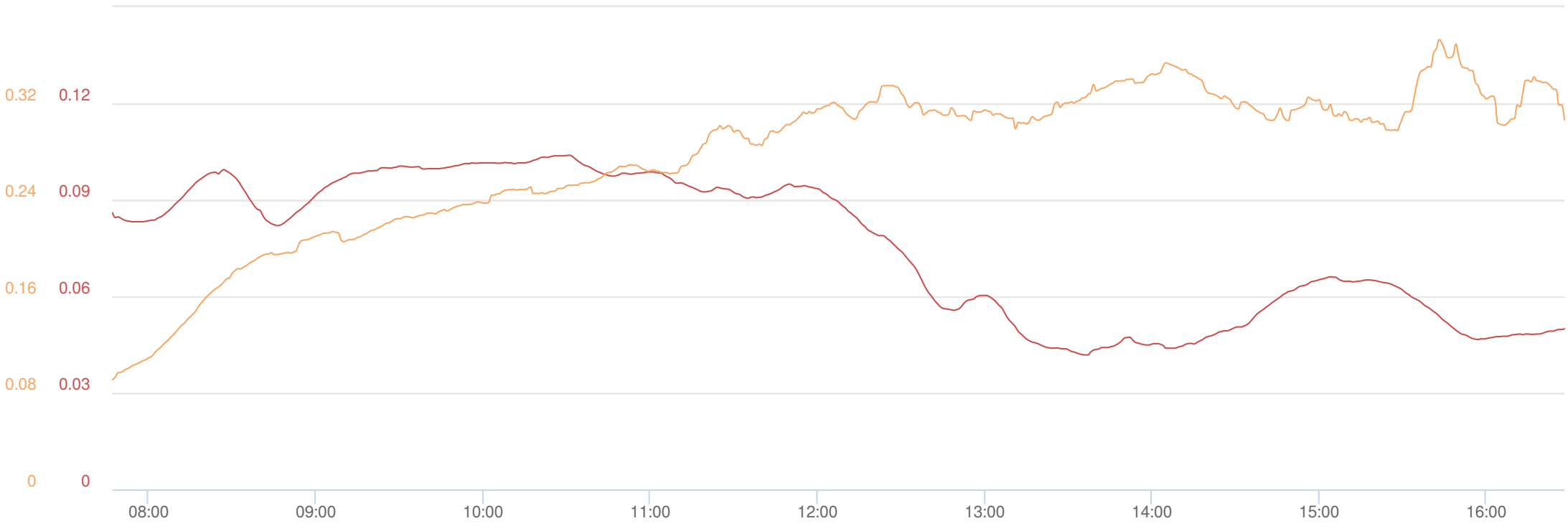
SITE PLAN

731-747 4th Ave
Brooklyn, NY

FIGURE NO:

2

03/10/2022 0:00:21 – 03/11/2022 0:00:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.0418	0.0754	0.1039

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0.091	0.2761	0.3728

Name	TOT2101 UW (FA03927)
S/N	0B448132
Description	(FA03927)
Location	249-B 24th St, Brooklyn, NY 11232, USA

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Device	TOT2101 - CAMP Station - Upwind	
Timestamp (America/New_York)	Mass Conc. Total mg/m³ AVG 15m (mg/m³)	VOC ppm AVG 15m (ppm)
3/10/2022 7:47	0.086	0.091
3/10/2022 7:48	0.0845	0.093
3/10/2022 7:49	0.0847	0.0967
3/10/2022 7:50	0.0843	0.097
3/10/2022 7:51	0.0838	0.0982
3/10/2022 7:52	0.0835	0.0998
3/10/2022 7:53	0.0834	0.1007
3/10/2022 7:54	0.0832	0.1023
3/10/2022 7:55	0.0832	0.1033
3/10/2022 7:56	0.0832	0.1043
3/10/2022 7:57	0.0832	0.1055
3/10/2022 7:58	0.0832	0.1067
3/10/2022 7:59	0.0834	0.1076
3/10/2022 8:00	0.0835	0.1091
3/10/2022 8:01	0.0837	0.1102
3/10/2022 8:02	0.0837	0.1127
3/10/2022 8:03	0.0842	0.1153
3/10/2022 8:04	0.0846	0.1171
3/10/2022 8:05	0.0851	0.1195
3/10/2022 8:06	0.0858	0.1219
3/10/2022 8:07	0.0865	0.1239
3/10/2022 8:08	0.0873	0.1264
3/10/2022 8:09	0.0882	0.1285
3/10/2022 8:10	0.0891	0.1312
3/10/2022 8:11	0.0899	0.1339
3/10/2022 8:12	0.0907	0.1363
3/10/2022 8:13	0.0917	0.1382
3/10/2022 8:14	0.0927	0.1411
3/10/2022 8:15	0.0936	0.1431
3/10/2022 8:16	0.0945	0.1456
3/10/2022 8:17	0.0954	0.1481
3/10/2022 8:18	0.0961	0.1521
3/10/2022 8:19	0.0967	0.1548
3/10/2022 8:20	0.0973	0.1576
3/10/2022 8:21	0.0979	0.1601
3/10/2022 8:22	0.0983	0.1624
3/10/2022 8:23	0.0985	0.1644
3/10/2022 8:24	0.0986	0.1663
3/10/2022 8:25	0.0981	0.1677
3/10/2022 8:26	0.0989	0.1697
3/10/2022 8:27	0.0994	0.172
3/10/2022 8:28	0.0989	0.1745
3/10/2022 8:29	0.0984	0.1754
3/10/2022 8:30	0.0977	0.1792
3/10/2022 8:31	0.097	0.1813
3/10/2022 8:32	0.096	0.1829
3/10/2022 8:33	0.0947	0.1828
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3/10/2022 8:40	0.0867	0.193
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3/10/2022 8:52	0.0853	0.1968
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3/10/2022 8:55	0.0874	0.2063
3/10/2022 8:56	0.0882	0.2067
3/10/2022 8:57	0.0889	0.207
3/10/2022 8:58	0.0897	0.2081
3/10/2022 8:59	0.0906	0.2089
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3/10/2022 9:01	0.0923	0.2107
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3/10/2022 9:06	0.0953	0.2137
3/10/2022 9:07	0.0957	0.2131
3/10/2022 9:08	0.0961	0.2127
3/10/2022 9:09	0.0965	0.2071
3/10/2022 9:10	0.0969	0.2053
3/10/2022 9:11	0.0973	0.2062
3/10/2022 9:12	0.0979	0.207
3/10/2022 9:13	0.0982	0.2072
3/10/2022 9:14	0.0983	0.2076
3/10/2022 9:15	0.0983	0.2089
3/10/2022 9:16	0.0984	0.2095
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3/10/2022 9:19	0.099	0.2135
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3/10/2022 9:21	0.0991	0.2153
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3/10/2022 9:32	0.1004	0.2261
3/10/2022 9:33	0.1003	0.2261
3/10/2022 9:34	0.1002	0.2255

3/10/2022 9:35	0.1002	0.2252
3/10/2022 9:36	0.1003	0.2261
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3/10/2022 13:12	0.0491	0.3043
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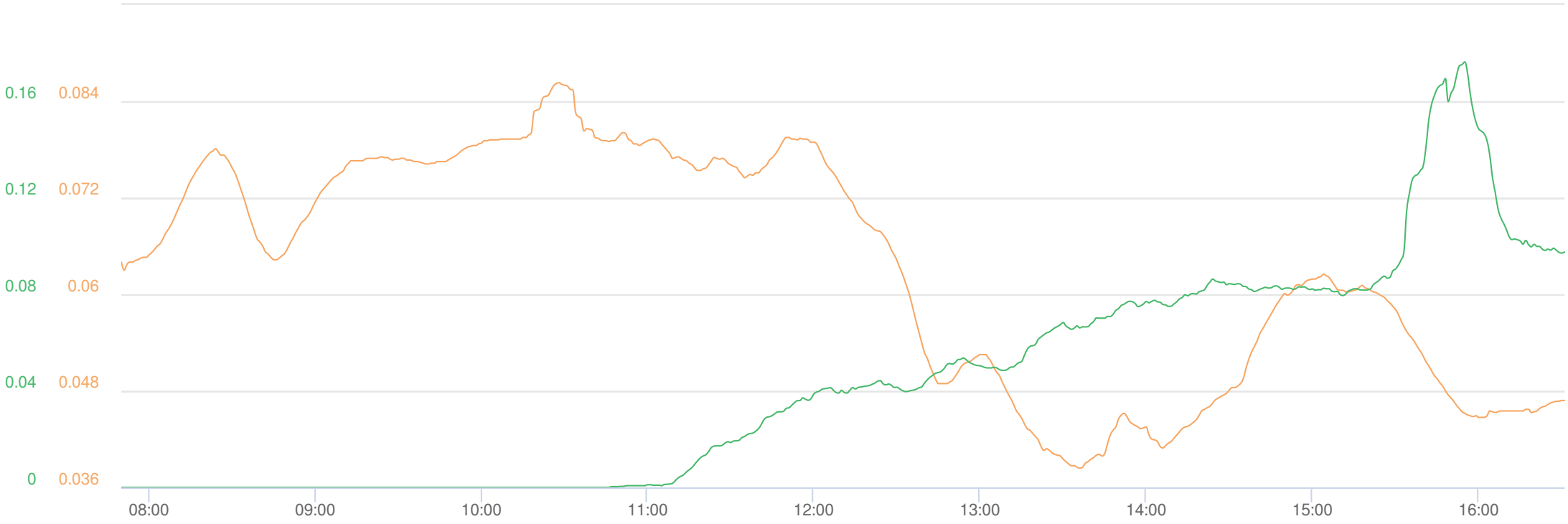
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3/10/2022 16:00	0.0469	0.3238
3/10/2022 16:01	0.0471	0.3251
3/10/2022 16:02	0.0472	0.3261
3/10/2022 16:03	0.0474	0.3236
3/10/2022 16:04	0.0475	0.3037
3/10/2022 16:05	0.0475	0.3027
3/10/2022 16:06	0.0476	0.3019
3/10/2022 16:07	0.0476	0.3025
3/10/2022 16:08	0.0477	0.3047
3/10/2022 16:09	0.048	0.3071
3/10/2022 16:10	0.0481	0.3073
3/10/2022 16:11	0.0482	0.3186
3/10/2022 16:12	0.0483	0.3172
3/10/2022 16:13	0.0481	0.3283
3/10/2022 16:14	0.0483	0.3389
3/10/2022 16:15	0.0483	0.3391
3/10/2022 16:16	0.0482	0.3379
3/10/2022 16:17	0.0482	0.3419
3/10/2022 16:18	0.0483	0.3389
3/10/2022 16:19	0.0483	0.3385
3/10/2022 16:20	0.0485	0.3373
3/10/2022 16:21	0.0488	0.3375
3/10/2022 16:22	0.0491	0.3365
3/10/2022 16:23	0.0492	0.3343
3/10/2022 16:24	0.0492	0.3319
3/10/2022 16:25	0.0495	0.3315
3/10/2022 16:26	0.0497	0.3186
3/10/2022 16:27	0.0497	0.3187
3/10/2022 16:28	0.0499	0.3063

03/10/2022 0:00:48 – 03/11/2022 0:00:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.0384	0.0634	0.0863

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.0436	0.1763

Name	TOT2101 DW (FA03793)
S/N	0B427035
Description	(FA03793)
Location	249-B 24th St, Brooklyn, NY 11232, USA

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Device	TOT2101 - CAMP Station - Downwind	
Timestamp (America/New_York)	Mass Conc. Total mg/m³ AVG 15m (mg/m³)	VOC ppm AVG 15m (ppm)
3/10/2022 7:50	0.064	0
3/10/2022 7:51	0.063	0
3/10/2022 7:52	0.0637	0
3/10/2022 7:53	0.064	0
3/10/2022 7:54	0.064	0
3/10/2022 7:55	0.0642	0
3/10/2022 7:56	0.0643	0
3/10/2022 7:57	0.0645	0
3/10/2022 7:58	0.0646	0
3/10/2022 7:59	0.0646	0
3/10/2022 8:00	0.0649	0
3/10/2022 8:01	0.0652	0
3/10/2022 8:02	0.0656	0
3/10/2022 8:03	0.066	0
3/10/2022 8:04	0.0663	0
3/10/2022 8:05	0.0669	0
3/10/2022 8:06	0.0676	0
3/10/2022 8:07	0.0681	0
3/10/2022 8:08	0.0687	0
3/10/2022 8:09	0.0694	0
3/10/2022 8:10	0.0702	0
3/10/2022 8:11	0.071	0
3/10/2022 8:12	0.0717	0
3/10/2022 8:13	0.0725	0
3/10/2022 8:14	0.0734	0
3/10/2022 8:15	0.0741	0
3/10/2022 8:16	0.0747	0
3/10/2022 8:17	0.0753	0
3/10/2022 8:18	0.0758	0
3/10/2022 8:19	0.0763	0
3/10/2022 8:20	0.0768	0
3/10/2022 8:21	0.0772	0
3/10/2022 8:22	0.0776	0
3/10/2022 8:23	0.0778	0
3/10/2022 8:24	0.0781	0
3/10/2022 8:25	0.0777	0
3/10/2022 8:26	0.0773	0
3/10/2022 8:27	0.0773	0
3/10/2022 8:28	0.0769	0
3/10/2022 8:29	0.0764	0
3/10/2022 8:30	0.0757	0
3/10/2022 8:31	0.0751	0
3/10/2022 8:32	0.0742	0
3/10/2022 8:33	0.0732	0
3/10/2022 8:34	0.0722	0
3/10/2022 8:35	0.0711	0
3/10/2022 8:36	0.0699	0
3/10/2022 8:37	0.0689	0
3/10/2022 8:38	0.0679	0
3/10/2022 8:39	0.0669	0
3/10/2022 8:40	0.0665	0
3/10/2022 8:41	0.066	0

3/10/2022 8:42	0.0653	0
3/10/2022 8:43	0.065	0
3/10/2022 8:44	0.0646	0
3/10/2022 8:45	0.0643	0
3/10/2022 8:46	0.0643	0
3/10/2022 8:47	0.0645	0
3/10/2022 8:48	0.0648	0
3/10/2022 8:49	0.0651	0
3/10/2022 8:50	0.0657	0
3/10/2022 8:51	0.0664	0
3/10/2022 8:52	0.067	0
3/10/2022 8:53	0.0677	0
3/10/2022 8:54	0.0683	0
3/10/2022 8:55	0.0689	0
3/10/2022 8:56	0.0692	0
3/10/2022 8:57	0.0696	0
3/10/2022 8:58	0.0701	0
3/10/2022 8:59	0.0708	0
3/10/2022 9:00	0.0715	0
3/10/2022 9:01	0.0721	0
3/10/2022 9:02	0.0727	0
3/10/2022 9:03	0.0731	0
3/10/2022 9:04	0.0735	0
3/10/2022 9:05	0.0739	0
3/10/2022 9:06	0.0743	0
3/10/2022 9:07	0.0746	0
3/10/2022 9:08	0.0748	0
3/10/2022 9:09	0.0751	0
3/10/2022 9:10	0.0753	0
3/10/2022 9:11	0.0759	0
3/10/2022 9:12	0.0763	0
3/10/2022 9:13	0.0766	0
3/10/2022 9:14	0.0766	0
3/10/2022 9:15	0.0766	0
3/10/2022 9:16	0.0766	0
3/10/2022 9:17	0.0766	0
3/10/2022 9:18	0.0768	0
3/10/2022 9:19	0.0769	0
3/10/2022 9:20	0.0769	0
3/10/2022 9:21	0.0769	0
3/10/2022 9:22	0.0769	0
3/10/2022 9:23	0.077	0
3/10/2022 9:24	0.0771	0
3/10/2022 9:25	0.077	0
3/10/2022 9:26	0.077	0
3/10/2022 9:27	0.0768	0
3/10/2022 9:28	0.0767	0
3/10/2022 9:29	0.0768	0
3/10/2022 9:30	0.0768	0
3/10/2022 9:31	0.0769	0
3/10/2022 9:32	0.0769	0
3/10/2022 9:33	0.0767	0
3/10/2022 9:34	0.0767	0
3/10/2022 9:35	0.0766	0

3/10/2022 9:36	0.0765	0
3/10/2022 9:37	0.0765	0
3/10/2022 9:38	0.0764	0
3/10/2022 9:39	0.0763	0
3/10/2022 9:40	0.0762	0
3/10/2022 9:41	0.0762	0
3/10/2022 9:42	0.0763	0
3/10/2022 9:43	0.0763	0
3/10/2022 9:44	0.0765	0
3/10/2022 9:45	0.0765	0
3/10/2022 9:46	0.0765	0
3/10/2022 9:47	0.0765	0
3/10/2022 9:48	0.0767	0
3/10/2022 9:49	0.0769	0
3/10/2022 9:50	0.0771	0
3/10/2022 9:51	0.0773	0
3/10/2022 9:52	0.0776	0
3/10/2022 9:53	0.0779	0
3/10/2022 9:54	0.0781	0
3/10/2022 9:55	0.0783	0
3/10/2022 9:56	0.0784	0
3/10/2022 9:57	0.0785	0
3/10/2022 9:58	0.0785	0
3/10/2022 9:59	0.0787	0
3/10/2022 10:00	0.0788	0
3/10/2022 10:01	0.0791	0
3/10/2022 10:02	0.0791	0
3/10/2022 10:03	0.0792	0
3/10/2022 10:04	0.0792	0
3/10/2022 10:05	0.0792	0
3/10/2022 10:06	0.0792	0
3/10/2022 10:07	0.0793	0
3/10/2022 10:08	0.0793	0
3/10/2022 10:09	0.0793	0
3/10/2022 10:10	0.0793	0
3/10/2022 10:11	0.0793	0
3/10/2022 10:12	0.0793	0
3/10/2022 10:13	0.0793	0
3/10/2022 10:14	0.0793	0
3/10/2022 10:15	0.0795	0
3/10/2022 10:16	0.0795	0
3/10/2022 10:17	0.0798	0
3/10/2022 10:18	0.0801	0
3/10/2022 10:19	0.0827	0
3/10/2022 10:20	0.0829	0
3/10/2022 10:21	0.0831	0
3/10/2022 10:22	0.0843	0
3/10/2022 10:23	0.0846	0
3/10/2022 10:24	0.0847	0
3/10/2022 10:25	0.0853	0
3/10/2022 10:26	0.0859	0
3/10/2022 10:27	0.0862	0
3/10/2022 10:28	0.0863	0
3/10/2022 10:29	0.0861	0

3/10/2022 10:30	0.086	0
3/10/2022 10:31	0.0859	0
3/10/2022 10:32	0.0855	0
3/10/2022 10:33	0.0854	0
3/10/2022 10:34	0.0826	0
3/10/2022 10:35	0.0821	0
3/10/2022 10:36	0.0818	0
3/10/2022 10:37	0.0803	0
3/10/2022 10:38	0.0806	0
3/10/2022 10:39	0.0805	0
3/10/2022 10:40	0.0804	0
3/10/2022 10:41	0.0795	0
3/10/2022 10:42	0.0794	0
3/10/2022 10:43	0.0792	0
3/10/2022 10:44	0.0791	0
3/10/2022 10:45	0.0791	0
3/10/2022 10:46	0.079	0
3/10/2022 10:47	0.0791	0.0003
3/10/2022 10:48	0.0791	0.0003
3/10/2022 10:49	0.0794	0.0003
3/10/2022 10:50	0.0798	0.0004
3/10/2022 10:51	0.0801	0.0004
3/10/2022 10:52	0.08	0.0006
3/10/2022 10:53	0.0793	0.0007
3/10/2022 10:54	0.0791	0.0007
3/10/2022 10:55	0.0787	0.0007
3/10/2022 10:56	0.0787	0.0007
3/10/2022 10:57	0.0785	0.0007
3/10/2022 10:58	0.0787	0.0007
3/10/2022 10:59	0.0789	0.0007
3/10/2022 11:00	0.0791	0.0011
3/10/2022 11:01	0.0792	0.0011
3/10/2022 11:02	0.0793	0.0009
3/10/2022 11:03	0.0792	0.0009
3/10/2022 11:04	0.0791	0.0009
3/10/2022 11:05	0.0787	0.0007
3/10/2022 11:06	0.0783	0.0012
3/10/2022 11:07	0.0779	0.0013
3/10/2022 11:08	0.0775	0.0014
3/10/2022 11:09	0.0769	0.0017
3/10/2022 11:10	0.077	0.0028
3/10/2022 11:11	0.0771	0.0039
3/10/2022 11:12	0.0769	0.0046
3/10/2022 11:13	0.0767	0.0052
3/10/2022 11:14	0.0766	0.0064
3/10/2022 11:15	0.0763	0.0073
3/10/2022 11:16	0.0761	0.0082
3/10/2022 11:17	0.0757	0.0096
3/10/2022 11:18	0.0754	0.011
3/10/2022 11:19	0.0754	0.0122
3/10/2022 11:20	0.0756	0.013
3/10/2022 11:21	0.0757	0.0135
3/10/2022 11:22	0.0761	0.0148
3/10/2022 11:23	0.0766	0.0165

3/10/2022 11:24	0.077	0.0171
3/10/2022 11:25	0.0769	0.0172
3/10/2022 11:26	0.0768	0.0172
3/10/2022 11:27	0.0769	0.0175
3/10/2022 11:28	0.0767	0.0184
3/10/2022 11:29	0.0763	0.0189
3/10/2022 11:30	0.0761	0.0186
3/10/2022 11:31	0.0759	0.0192
3/10/2022 11:32	0.0758	0.0193
3/10/2022 11:33	0.0753	0.0195
3/10/2022 11:34	0.0749	0.0206
3/10/2022 11:35	0.0745	0.0211
3/10/2022 11:36	0.0747	0.0219
3/10/2022 11:37	0.0749	0.0223
3/10/2022 11:38	0.0748	0.0225
3/10/2022 11:39	0.0751	0.0233
3/10/2022 11:40	0.0751	0.0243
3/10/2022 11:41	0.0755	0.026
3/10/2022 11:42	0.0758	0.0281
3/10/2022 11:43	0.0761	0.029
3/10/2022 11:44	0.0767	0.0293
3/10/2022 11:45	0.077	0.0298
3/10/2022 11:46	0.0774	0.0306
3/10/2022 11:47	0.0779	0.0313
3/10/2022 11:48	0.0785	0.0313
3/10/2022 11:49	0.0791	0.0315
3/10/2022 11:50	0.0795	0.0327
3/10/2022 11:51	0.0795	0.033
3/10/2022 11:52	0.0793	0.034
3/10/2022 11:53	0.0793	0.0351
3/10/2022 11:54	0.0792	0.0359
3/10/2022 11:55	0.0794	0.036
3/10/2022 11:56	0.0793	0.0371
3/10/2022 11:57	0.0793	0.0365
3/10/2022 11:58	0.0792	0.0361
3/10/2022 11:59	0.0789	0.0368
3/10/2022 12:00	0.0789	0.0387
3/10/2022 12:01	0.0787	0.0395
3/10/2022 12:02	0.078	0.0399
3/10/2022 12:03	0.0773	0.0407
3/10/2022 12:04	0.0765	0.0409
3/10/2022 12:05	0.0759	0.0411
3/10/2022 12:06	0.0755	0.0413
3/10/2022 12:07	0.0751	0.0403
3/10/2022 12:08	0.0746	0.0393
3/10/2022 12:09	0.074	0.0391
3/10/2022 12:10	0.0734	0.0402
3/10/2022 12:11	0.0728	0.0393
3/10/2022 12:12	0.0723	0.0391
3/10/2022 12:13	0.0718	0.0403
3/10/2022 12:14	0.0714	0.0413
3/10/2022 12:15	0.0706	0.0408
3/10/2022 12:16	0.0699	0.0414
3/10/2022 12:17	0.0695	0.0416

3/10/2022 12:18	0.0691	0.0418
3/10/2022 12:19	0.0688	0.042
3/10/2022 12:20	0.0686	0.0422
3/10/2022 12:21	0.0683	0.0427
3/10/2022 12:22	0.068	0.0432
3/10/2022 12:23	0.0679	0.044
3/10/2022 12:24	0.0678	0.0442
3/10/2022 12:25	0.0674	0.0429
3/10/2022 12:26	0.0669	0.0425
3/10/2022 12:27	0.0663	0.0428
3/10/2022 12:28	0.0655	0.0423
3/10/2022 12:29	0.0649	0.0414
3/10/2022 12:30	0.0642	0.0415
3/10/2022 12:31	0.0633	0.0408
3/10/2022 12:32	0.0625	0.0401
3/10/2022 12:33	0.0615	0.0397
3/10/2022 12:34	0.0605	0.0398
3/10/2022 12:35	0.0593	0.0401
3/10/2022 12:36	0.0579	0.0403
3/10/2022 12:37	0.0565	0.0407
3/10/2022 12:38	0.0552	0.0413
3/10/2022 12:39	0.0539	0.0417
3/10/2022 12:40	0.0527	0.0433
3/10/2022 12:41	0.052	0.0446
3/10/2022 12:42	0.051	0.0457
3/10/2022 12:43	0.0502	0.0465
3/10/2022 12:44	0.0494	0.0473
3/10/2022 12:45	0.0489	0.0476
3/10/2022 12:46	0.0489	0.0481
3/10/2022 12:47	0.0489	0.0492
3/10/2022 12:48	0.0489	0.0508
3/10/2022 12:49	0.0491	0.0513
3/10/2022 12:50	0.0493	0.0511
3/10/2022 12:51	0.0498	0.0517
3/10/2022 12:52	0.0503	0.0529
3/10/2022 12:53	0.0509	0.0531
3/10/2022 12:54	0.0513	0.0536
3/10/2022 12:55	0.0515	0.0529
3/10/2022 12:56	0.0516	0.0519
3/10/2022 12:57	0.0518	0.0513
3/10/2022 12:58	0.0521	0.0508
3/10/2022 12:59	0.0523	0.0505
3/10/2022 13:00	0.0525	0.0504
3/10/2022 13:01	0.0525	0.05
3/10/2022 13:02	0.0525	0.0496
3/10/2022 13:03	0.0521	0.0495
3/10/2022 13:04	0.0516	0.0495
3/10/2022 13:05	0.0509	0.0497
3/10/2022 13:06	0.0503	0.0495
3/10/2022 13:07	0.0499	0.0488
3/10/2022 13:08	0.0491	0.0485
3/10/2022 13:09	0.0484	0.0485
3/10/2022 13:10	0.0477	0.049
3/10/2022 13:11	0.0471	0.0498

3/10/2022 13:12	0.0464	0.0499
3/10/2022 13:13	0.0456	0.0508
3/10/2022 13:14	0.0451	0.0517
3/10/2022 13:15	0.0446	0.0521
3/10/2022 13:16	0.0439	0.0547
3/10/2022 13:17	0.0433	0.0571
3/10/2022 13:18	0.0431	0.0584
3/10/2022 13:19	0.0427	0.0587
3/10/2022 13:20	0.0423	0.0593
3/10/2022 13:21	0.0419	0.0613
3/10/2022 13:22	0.0411	0.0623
3/10/2022 13:23	0.0406	0.0632
3/10/2022 13:24	0.0408	0.064
3/10/2022 13:25	0.0406	0.0644
3/10/2022 13:26	0.0403	0.0653
3/10/2022 13:27	0.0401	0.0661
3/10/2022 13:28	0.04	0.0667
3/10/2022 13:29	0.0399	0.0674
3/10/2022 13:30	0.0395	0.0683
3/10/2022 13:31	0.0392	0.0669
3/10/2022 13:32	0.0389	0.0661
3/10/2022 13:33	0.0387	0.0655
3/10/2022 13:34	0.0387	0.066
3/10/2022 13:35	0.0385	0.0669
3/10/2022 13:36	0.0384	0.0661
3/10/2022 13:37	0.0385	0.0665
3/10/2022 13:38	0.039	0.0665
3/10/2022 13:39	0.0392	0.0666
3/10/2022 13:40	0.0395	0.0678
3/10/2022 13:41	0.0397	0.0687
3/10/2022 13:42	0.04	0.0702
3/10/2022 13:43	0.0401	0.0701
3/10/2022 13:44	0.0399	0.0701
3/10/2022 13:45	0.0402	0.0701
3/10/2022 13:46	0.0414	0.0708
3/10/2022 13:47	0.0425	0.0708
3/10/2022 13:48	0.0431	0.0717
3/10/2022 13:49	0.0435	0.0733
3/10/2022 13:50	0.0445	0.0741
3/10/2022 13:51	0.045	0.0754
3/10/2022 13:52	0.0452	0.0759
3/10/2022 13:53	0.0448	0.0767
3/10/2022 13:54	0.0442	0.0771
3/10/2022 13:55	0.0439	0.0769
3/10/2022 13:56	0.0437	0.0762
3/10/2022 13:57	0.0435	0.0749
3/10/2022 13:58	0.0433	0.0753
3/10/2022 13:59	0.0434	0.076
3/10/2022 14:00	0.0435	0.077
3/10/2022 14:01	0.0425	0.0765
3/10/2022 14:02	0.042	0.0771
3/10/2022 14:03	0.0419	0.0775
3/10/2022 14:04	0.0417	0.0769
3/10/2022 14:05	0.0411	0.0767

3/10/2022 14:06	0.0409	0.0758
3/10/2022 14:07	0.0412	0.0756
3/10/2022 14:08	0.0415	0.075
3/10/2022 14:09	0.0417	0.0751
3/10/2022 14:10	0.0421	0.076
3/10/2022 14:11	0.0425	0.0769
3/10/2022 14:12	0.0429	0.0781
3/10/2022 14:13	0.0433	0.0787
3/10/2022 14:14	0.0435	0.0798
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3/10/2022 14:17	0.0441	0.0803
3/10/2022 14:18	0.0444	0.0801
3/10/2022 14:19	0.0449	0.081
3/10/2022 14:20	0.0455	0.0814
3/10/2022 14:21	0.0457	0.0819
3/10/2022 14:22	0.0459	0.0837
3/10/2022 14:23	0.0461	0.0851
3/10/2022 14:24	0.0465	0.0863
3/10/2022 14:25	0.0469	0.0855
3/10/2022 14:26	0.0471	0.0852
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3/10/2022 14:28	0.0475	0.085
3/10/2022 14:29	0.0477	0.084
3/10/2022 14:30	0.0481	0.0844
3/10/2022 14:31	0.0484	0.0842
3/10/2022 14:32	0.0484	0.0841
3/10/2022 14:33	0.0486	0.0844
3/10/2022 14:34	0.0489	0.0842
3/10/2022 14:35	0.0495	0.0833
3/10/2022 14:36	0.0508	0.0832
3/10/2022 14:37	0.0519	0.0822
3/10/2022 14:38	0.0528	0.0819
3/10/2022 14:39	0.0535	0.0812
3/10/2022 14:40	0.0542	0.0815
3/10/2022 14:41	0.0551	0.0821
3/10/2022 14:42	0.0557	0.0825
3/10/2022 14:43	0.0563	0.0829
3/10/2022 14:44	0.0569	0.0826
3/10/2022 14:45	0.0575	0.0827
3/10/2022 14:46	0.0581	0.0833
3/10/2022 14:47	0.0587	0.0835
3/10/2022 14:48	0.0592	0.0829
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3/10/2022 14:52	0.0601	0.0825
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3/10/2022 14:55	0.0612	0.0831
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3/10/2022 14:57	0.0614	0.0831
3/10/2022 14:58	0.0617	0.0825
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3/10/2022 15:01	0.0619	0.0817
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3/10/2022 15:09	0.0606	0.0812
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3/10/2022 15:11	0.0605	0.0795
3/10/2022 15:12	0.0603	0.0801
3/10/2022 15:13	0.0603	0.0814
3/10/2022 15:14	0.0604	0.0818
3/10/2022 15:15	0.0605	0.0823
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3/10/2022 15:17	0.0609	0.0819
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3/10/2022 15:19	0.0608	0.0817
3/10/2022 15:20	0.0607	0.0819
3/10/2022 15:21	0.0605	0.0823
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3/10/2022 15:23	0.0602	0.0849
3/10/2022 15:24	0.06	0.0857
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3/10/2022 15:49	0.0475	0.1599
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3/10/2022 15:53	0.0458	0.1746

3/10/2022 15:54	0.0454	0.1752
3/10/2022 15:55	0.0452	0.1763
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3/10/2022 15:58	0.0448	0.1562
3/10/2022 15:59	0.0449	0.1515
3/10/2022 16:00	0.0447	0.1486
3/10/2022 16:01	0.0447	0.1476
3/10/2022 16:02	0.0447	0.1465
3/10/2022 16:03	0.0449	0.1437
3/10/2022 16:04	0.0455	0.1377
3/10/2022 16:05	0.0454	0.1283
3/10/2022 16:06	0.0453	0.1221
3/10/2022 16:07	0.0454	0.1153
3/10/2022 16:08	0.0455	0.1117
3/10/2022 16:09	0.0455	0.1094
3/10/2022 16:10	0.0455	0.1069
3/10/2022 16:11	0.0455	0.1039
3/10/2022 16:12	0.0455	0.1027
3/10/2022 16:13	0.0455	0.1029
3/10/2022 16:14	0.0455	0.1026
3/10/2022 16:15	0.0455	0.1021
3/10/2022 16:16	0.0455	0.1008
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3/10/2022 16:28	0.0467	0.0983
3/10/2022 16:29	0.0467	0.0974
3/10/2022 16:30	0.0468	0.0971
3/10/2022 16:31	0.0468	0.0975

PWGC	DATE:	3/11/22	DAY:	Friday
	ON-SITE:	0650	OFF-SITE:	1620
	NYSDEC Project #:	C224332		
	PWGC Project #:	TOT2101		

DAILY FIELD ACTIVITY REPORT	
PROJECT:	737 4th Avenue Site
LOCATION:	731-747 4th Avenue, Brooklyn, New York 11232
WEATHER:	Partly Cloudy, 35-50 F, Wind Northeast
SITE SAFETY OFFICER:	William Hamilton
ATTACHMENTS:	Langan Boring Site Plan, Groundwater Sample Figure, CAMP Readings

SUMMARY OF SITE ACTIVITIES

Langan and PWGC onsite to oversee installation of geotechnical drilling by AARCO Environmental. PWGC onsite to perform field work outlined in the Remedial Investigation Work Plan

CAMP Oversight

- Eco-Rental dust track and PID mini RAE lite were recording for the duration of ground intrusion. No exceedences were detected. Due to the geotechnical work occurring inside the building, only one CAMP station was operating and it was at the doorway of the building.

Geotechnical Drilling

- AARCO Environmental drilled LB-5 in the Metro cellphone store to facilitate Langan's geotechnical soil sampling. Drilling did not begin until approximately 1030 and ceased at 30ft at end of day.

Groundwater Sampling

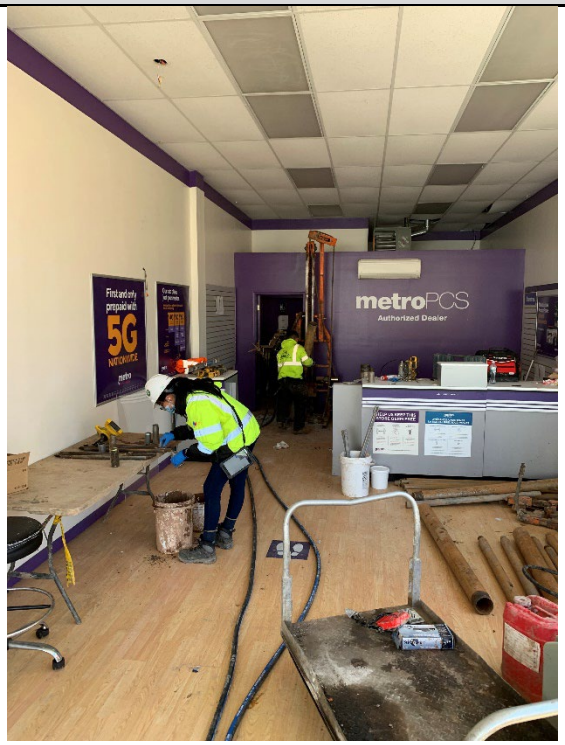
- Groundwater Samples MW-7, MW-86, and MW002 were collected using low-flow sampling procedures.

Samples were submitted to Alpha Analytical Laboratories (AAL) via courier service under COC. The samples will be analyzed by AAL in accordance with the procedures in the RIWP.

PREPARED BY	**REVIEWED BY**
PRINT NAME: William Hamilton	PRINT NAME: Jennifer Lewis, PG

PWGC	DATE:	3/11/22	DAY:	Friday
	ON-SITE:	0650	OFF-SITE:	1620
	NYSDEC Project #:	C224332		
	PWGC Project #:	TOT2101		

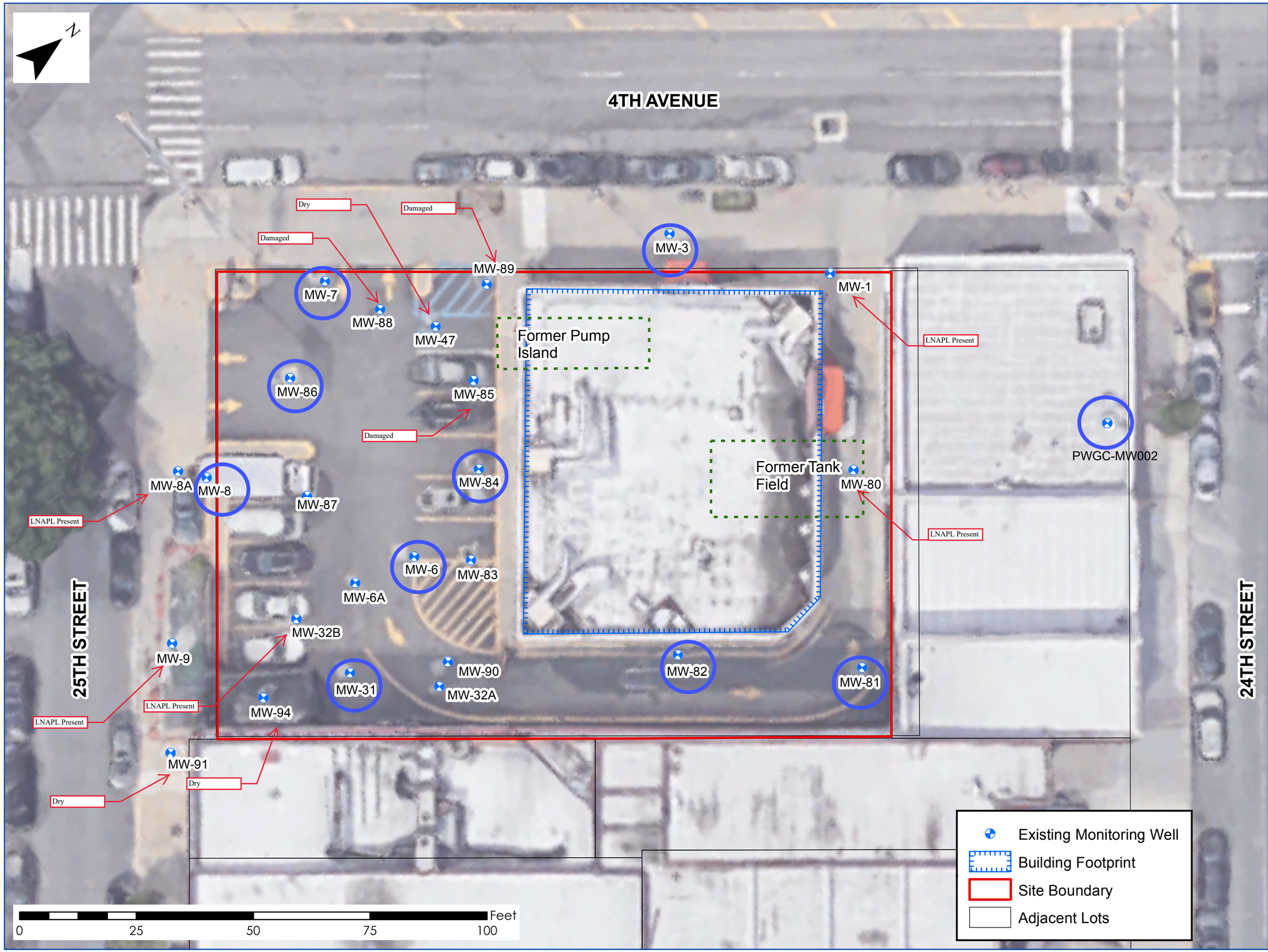
PHOTO LOG



View of LB-8.



View of upwind CAMP station.



PWGC
Strategic Environmental and Engineering Solutions

P.W. GROSSER CONSULTING, INC.

630 Johnson Avenue. • Suite 7
Bohemia • NY • 11716-2618
Phone: (631) 589-6353 • Fax: (631) 589-8705
E-mail: INFO@PWGROSSER.COM

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DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

Project:	TOT1802	Designed by:	LS
Date:	8/2/2018	Drawn by:	TS
Scale:	AS SHOWN	Approved by:	LS

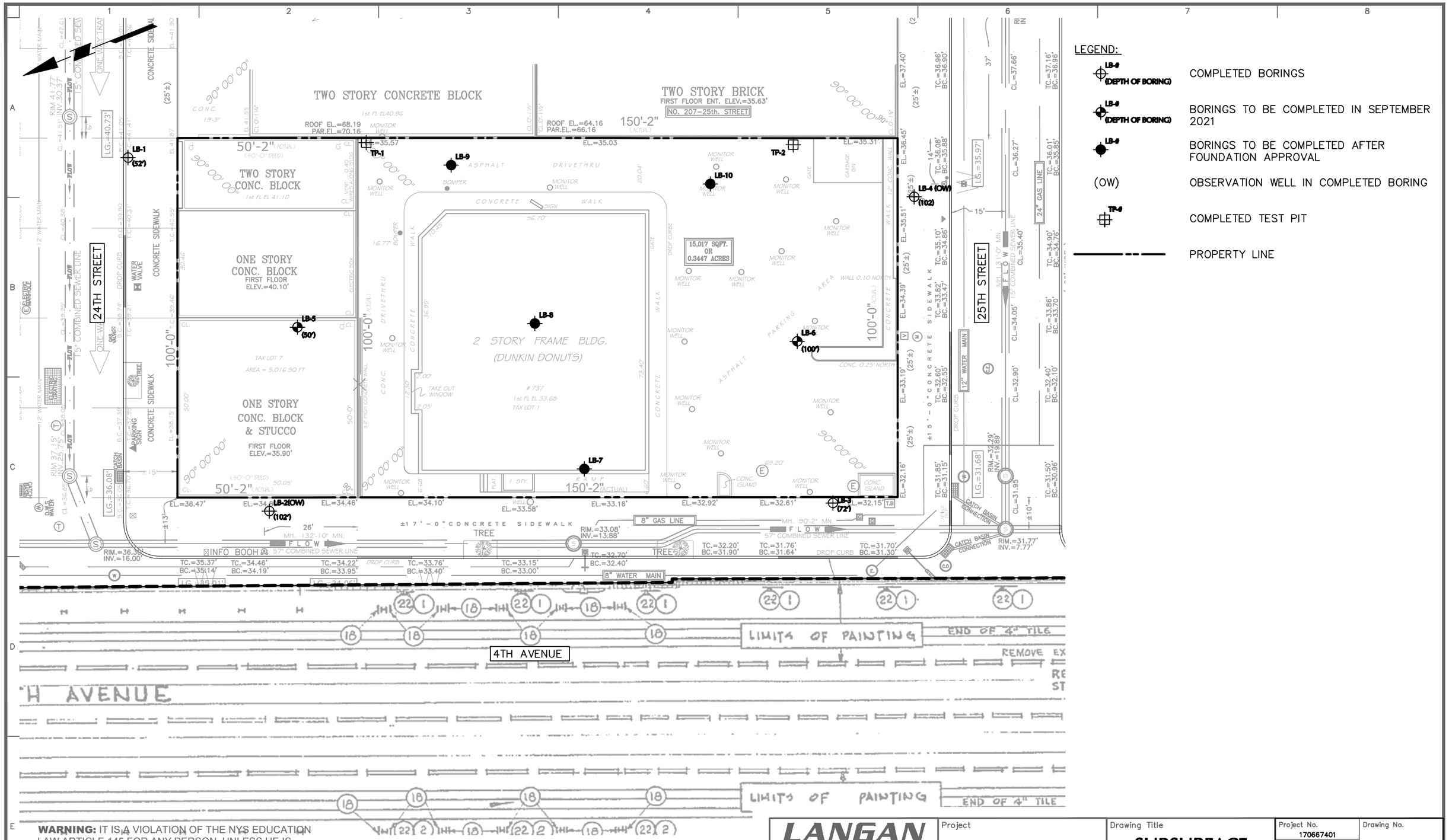
SITE PLAN WITH EXISTING MONITORING WELL LOCATIONS

737-747 4TH AVE
BROOKLYN, NY

FIGURE NO:

2

Document Path: W:\Projects\S-Z\TOT\1801\mapfiles\FIG02_SitePlan_v4.mxd



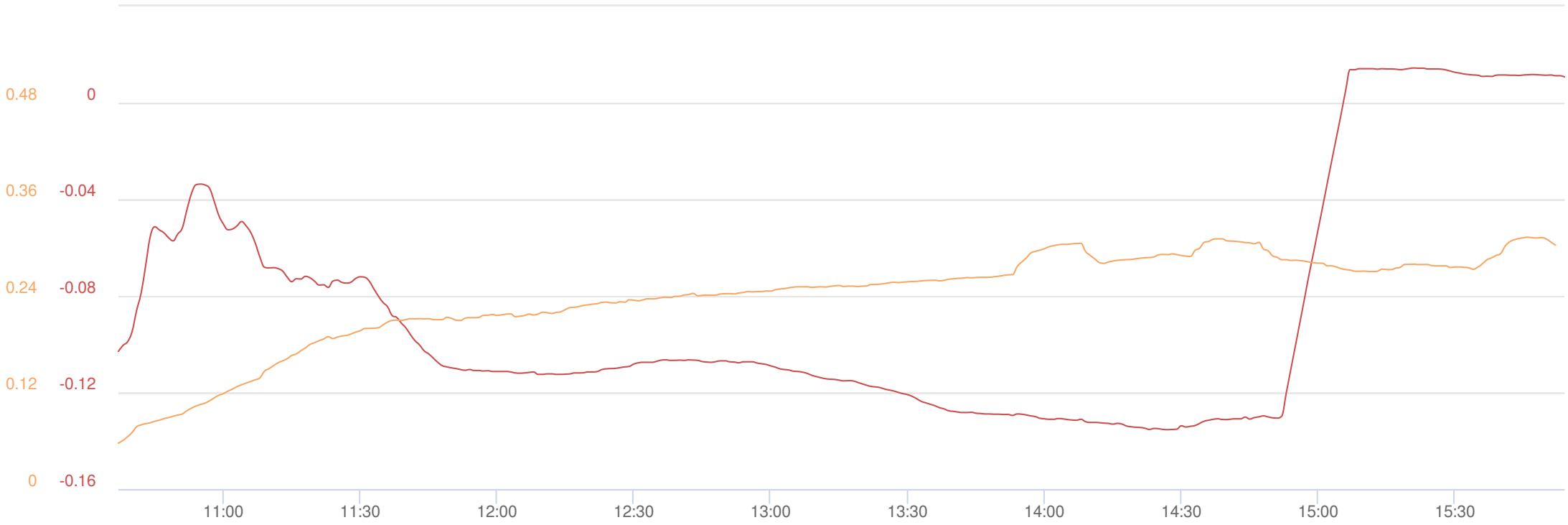
LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
T: 212.479.5400 F: 212.479.5444 www.langan.com

Project	737 4TH AVENUE BLOCK No. 652 LOT No. 1, 7 BROOKLYN NEW YORK
Drawing Title	SUBSURFACE INVESTIGATION PLAN
Project No.	170667401
Date	08/17/2021
Drawn By	EK
Checked By	VV
Drawing No.	1
Sheet	1 of 1

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Filename: \\langan.com\data\NY\data4\170667401\Project Data\CAD\01\SheetFiles\Geotechnical\170667401-BI001-0102.dwg Date: 8/17/2021 Time: 17:51 User: ekyriacou Style Table: Langan.stb Layout: BLP

03/11/2022 0:00:59 – 03/12/2022 0:00:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
-0.1354	-0.0863	0.0144

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0.057	0.2386	0.3129

Name	TOT2101 UW (FA03927)
S/N	0B448132
Description	(FA03927)
Location	213 25th St, Brooklyn, NY 11232, USA

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Device	TOT2101 - CAMP Station - Downwind	
Timestamp (America/New_York)	Mass Conc. Total mg/m³ AVG 15m (mg/m³)	VOC ppm AVG 15m (ppm)
3/11/2022 10:37	-0.103	0.057
3/11/2022 10:38	-0.1005	0.0605
3/11/2022 10:39	-0.099	0.065
3/11/2022 10:40	-0.0948	0.0703
3/11/2022 10:41	-0.086	0.0774
3/11/2022 10:42	-0.0787	0.0798
3/11/2022 10:43	-0.0671	0.0813
3/11/2022 10:44	-0.0553	0.0824
3/11/2022 10:45	-0.0514	0.0843
3/11/2022 10:46	-0.0527	0.0856
3/11/2022 10:47	-0.0539	0.0876
3/11/2022 10:48	-0.0559	0.0888
3/11/2022 10:49	-0.0572	0.0905
3/11/2022 10:50	-0.0544	0.0919
3/11/2022 10:51	-0.0519	0.0933
3/11/2022 10:52	-0.0445	0.0972
3/11/2022 10:53	-0.0377	0.1005
3/11/2022 10:54	-0.034	0.1031
3/11/2022 10:55	-0.0337	0.1051
3/11/2022 10:56	-0.0341	0.1068
3/11/2022 10:57	-0.0355	0.1097
3/11/2022 10:58	-0.0408	0.1133
3/11/2022 10:59	-0.0466	0.1165
3/11/2022 11:00	-0.0502	0.1185
3/11/2022 11:01	-0.0526	0.1217
3/11/2022 11:02	-0.0523	0.1242
3/11/2022 11:03	-0.051	0.1273
3/11/2022 11:04	-0.0492	0.1295
3/11/2022 11:05	-0.051	0.1317
3/11/2022 11:06	-0.0537	0.1337
3/11/2022 11:07	-0.0581	0.1358
3/11/2022 11:08	-0.0638	0.1381
3/11/2022 11:09	-0.0681	0.1463
3/11/2022 11:10	-0.0684	0.1496
3/11/2022 11:11	-0.0683	0.1533
3/11/2022 11:12	-0.0687	0.1569
3/11/2022 11:13	-0.0697	0.1593
3/11/2022 11:14	-0.0722	0.1619
3/11/2022 11:15	-0.0741	0.166
3/11/2022 11:16	-0.0729	0.1679
3/11/2022 11:17	-0.073	0.1719
3/11/2022 11:18	-0.0719	0.1754
3/11/2022 11:19	-0.0725	0.1797
3/11/2022 11:20	-0.0739	0.1819
3/11/2022 11:21	-0.0755	0.1844
3/11/2022 11:22	-0.0754	0.1865
3/11/2022 11:23	-0.0765	0.1893
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3/11/2022 11:25	-0.0735	0.1888
3/11/2022 11:26	-0.0744	0.1902
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3/11/2022 11:28	-0.0743	0.1927
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3/11/2022 11:31	-0.0723	0.1995
3/11/2022 11:32	-0.0739	0.1996

3/11/2022 11:33	-0.0771	0.1999
3/11/2022 11:34	-0.0801	0.2005
3/11/2022 11:35	-0.0827	0.2039
3/11/2022 11:36	-0.0845	0.2074
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3/11/2022 12:45	-0.1072	0.2407
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3/11/2022 12:48	-0.1072	0.241
3/11/2022 12:49	-0.1069	0.2424
3/11/2022 12:50	-0.1069	0.2427
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3/11/2022 13:04	-0.1107	0.2501
3/11/2022 13:05	-0.1112	0.2509
3/11/2022 13:06	-0.1113	0.2513
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3/11/2022 13:34	-0.1243	0.2591
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3/11/2022 13:44	-0.1282	0.2625
3/11/2022 13:45	-0.1286	0.2628
3/11/2022 13:46	-0.1287	0.2631
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3/11/2022 14:16	-0.1328	0.2842
3/11/2022 14:17	-0.1331	0.2847
3/11/2022 14:18	-0.1339	0.2851
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3/11/2022 15:07	0.0137	0.2721
3/11/2022 15:08	0.0137	0.2707
3/11/2022 15:09	0.0141	0.2706
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3/11/2022 15:11	0.0141	0.2704
3/11/2022 15:12	0.0141	0.2703
3/11/2022 15:13	0.0139	0.2707
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3/11/2022 15:28	0.0136	0.2773
3/11/2022 15:29	0.0131	0.2753
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3/11/2022 15:31	0.0123	0.2759
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3/11/2022 15:33	0.0117	0.2749
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3/11/2022 15:35	0.0114	0.2758
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3/11/2022 15:38	0.0109	0.2873
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3/11/2022 15:52	0.0112	0.3031
3/11/2022 15:53	0.0112	
3/11/2022 15:54	0.0107	

PWGC	DATE:	3/14/22	DAY:	Monday
	ON-SITE:	0700	OFF-SITE:	1800
	NYSDEC Project #:	C224332		
	PWGC Project #:	TOT2101		

DAILY FIELD ACTIVITY REPORT	
PROJECT:	737 4th Avenue Site
LOCATION:	731-747 4th Avenue, Brooklyn, New York 11232
WEATHER:	Partly Cloudy, 35-50 F, Wind Northeast
SITE SAFETY OFFICER:	William Hamilton
ATTACHMENTS:	Langan Boring Site Plan, CAMP Readings

SUMMARY OF SITE ACTIVITIES

Langan and PWGC onsite to oversee installation of geotechnical drilling by AARCO Environmental. PWGC onsite to perform field work outlined in the Remedial Investigation Work Plan

CAMP Oversight

- Ecorental dust track and PID mini RAE lite were recording for the duration of ground intrusion. No exceedences were detected. There was a malfunction where the PID stopped operating at 9:01am and then the dust meter began operating at the same time. Due to this work occurring inside the building, only one CAMP station was operating and it was at the doorway of the building.

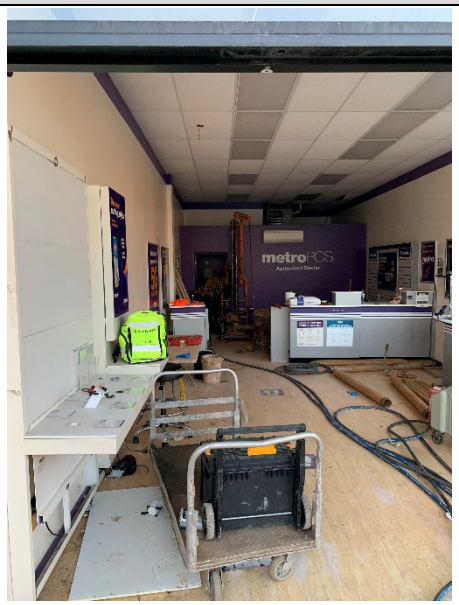
Geotechnical Drilling

- AARCO Environmental drilled LB-5 in the Metro cellphone store to facilitate Langan's geotechnical soil sampling. Drilling started at 30ft and ceased at 67ft.
- Geotechnical drilling complete.

PREPARED BY	**REVIEWED BY**
PRINT NAME: William Hamilton	PRINT NAME: Jennifer Lewis, PG

PWGC	DATE:	3/14/22	DAY:	Monday
	ON-SITE:	0700	OFF-SITE:	1800
	NYSDEC Project #:	C224332		
	PWGC Project #:	TOT2101		

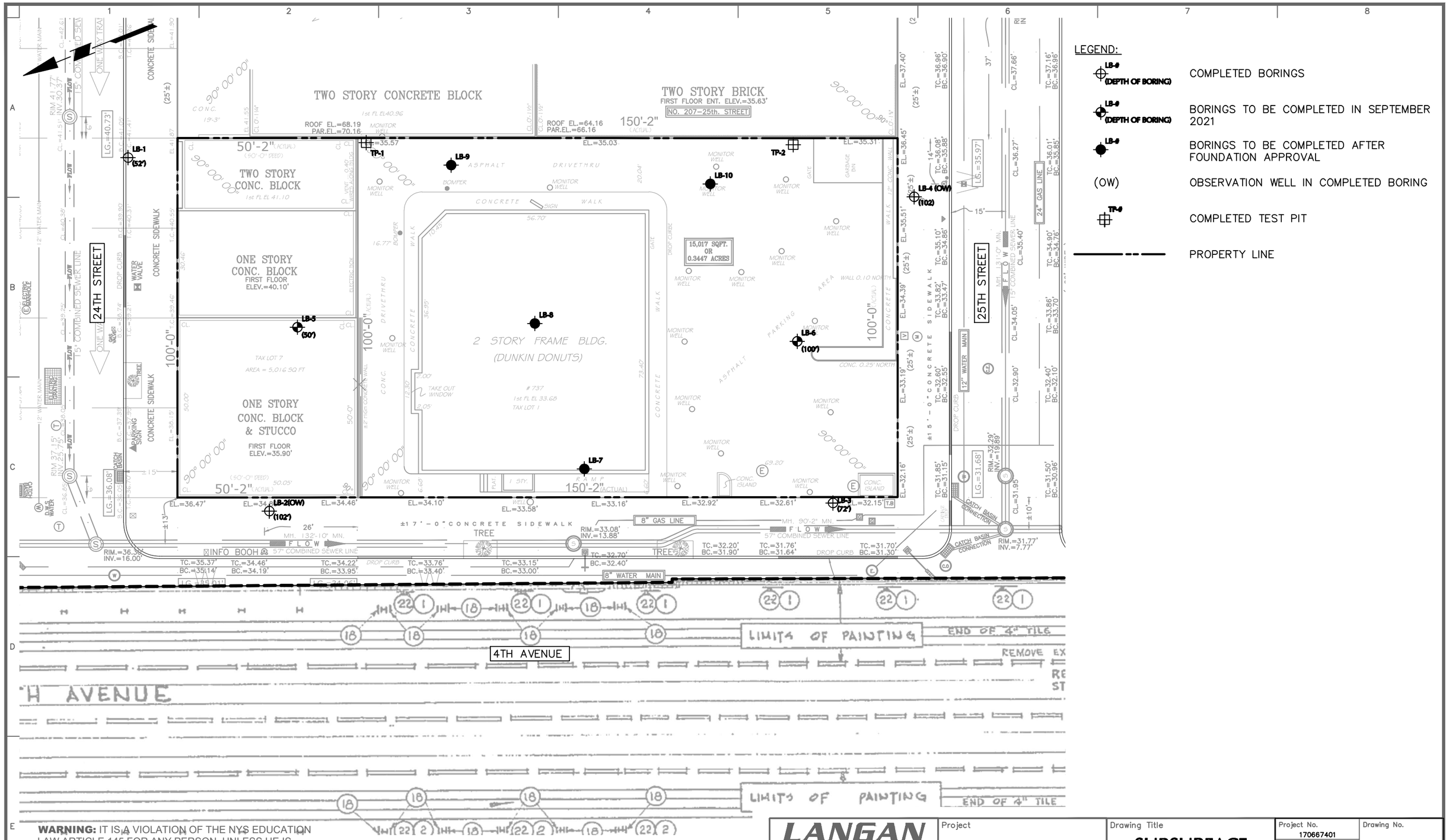
PHOTO LOG



View of LB-8.



View of upwind CAMP station.



LANGAN
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21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
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Project	737 4TH AVENUE BLOCK No. 652 LOT No. 1, 7 BROOKLYN NEW YORK
Drawing Title	SUBSURFACE INVESTIGATION PLAN
Project No.	170667401
Date	08/17/2021
Drawn By	EK
Checked By	VV
Drawing No.	1
Sheet	1 of 1

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Filename: \\langan.com\data\NY\data4\170667401\Project Data\CAD\01\SheetFiles\Geotechnical\170667401-BI001-0102.dwg Date: 8/17/2021 Time: 17:51 User: ekyriacou Style Table: Langan.stb Layout: BLP

Mon, 14th of Mar 2022, 6:36:00 – 19:36:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.0211	0.0293	0.0399

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0.075	0.1216	0.1545

Name	TOT2101 UW (FA03927)
S/N	0B448132
Description	(FA03927)
Location	55 Hunter Ln, Elmsford, NY 10523, USA

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Device

Timestamp (America/New_York)	VOC ppm AVG 15m (ppm)	Mass Conc. Total mg/m³ AVG 15m (mg/m³)
3/14/2022 7:48	0.075	
3/14/2022 7:49	0.0785	
3/14/2022 7:50	0.0797	
3/14/2022 7:51	0.0852	
3/14/2022 7:52	0.0844	
3/14/2022 7:53	0.0847	
3/14/2022 7:54	0.0876	
3/14/2022 7:55	0.0879	
3/14/2022 7:56	0.0887	
3/14/2022 7:57	0.0891	
3/14/2022 7:58	0.0898	
3/14/2022 7:59	0.0903	
3/14/2022 8:00	0.0908	
3/14/2022 8:01	0.0912	
3/14/2022 8:02	0.0922	
3/14/2022 8:03	0.0937	
3/14/2022 8:04	0.0955	
3/14/2022 8:05	0.0988	
3/14/2022 8:06	0.0993	
3/14/2022 8:07	0.1012	
3/14/2022 8:08	0.1033	
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3/14/2022 8:18	0.1225	
3/14/2022 8:19	0.1229	
3/14/2022 8:20	0.1219	
3/14/2022 8:21	0.1226	
3/14/2022 8:22	0.1236	
3/14/2022 8:23	0.1241	
3/14/2022 8:24	0.1251	
3/14/2022 8:25	0.1254	
3/14/2022 8:26	0.1209	
3/14/2022 8:27	0.1214	
3/14/2022 8:28	0.1222	
3/14/2022 8:29	0.1232	
3/14/2022 8:30	0.1241	
3/14/2022 8:31	0.1245	
3/14/2022 8:32	0.1253	

3/14/2022 8:33	0.1272	
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3/14/2022 8:38	0.1357	
3/14/2022 8:39	0.137	
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3/14/2022 8:44	0.1458	
3/14/2022 8:45	0.1473	
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3/14/2022 11:11	0.0336
3/14/2022 11:12	0.0335
3/14/2022 11:13	0.0332
3/14/2022 11:14	0.0329
3/14/2022 11:15	0.0325
3/14/2022 11:16	0.0324
3/14/2022 11:17	0.0325
3/14/2022 11:18	0.0325
3/14/2022 11:19	0.0323
3/14/2022 11:20	0.0319
3/14/2022 11:21	0.0317
3/14/2022 11:22	0.0317
3/14/2022 11:23	0.0313
3/14/2022 11:24	0.0313
3/14/2022 11:25	0.0308
3/14/2022 11:26	0.0307
3/14/2022 11:27	0.0312
3/14/2022 11:28	0.0315
3/14/2022 11:29	0.0319
3/14/2022 11:30	0.0321
3/14/2022 11:31	0.0323
3/14/2022 11:32	0.0323
3/14/2022 11:33	0.0323
3/14/2022 11:34	0.0324
3/14/2022 11:35	0.0323
3/14/2022 11:36	0.0323
3/14/2022 11:37	0.0322
3/14/2022 11:38	0.032
3/14/2022 11:39	0.0321
3/14/2022 11:40	0.0326
3/14/2022 11:41	0.0323
3/14/2022 11:42	0.0323
3/14/2022 11:43	0.0359

3/14/2022 11:44	0.0353
3/14/2022 11:45	0.035
3/14/2022 11:46	0.0349
3/14/2022 11:47	0.0347
3/14/2022 11:48	0.0345
3/14/2022 11:49	0.0343
3/14/2022 11:50	0.0345
3/14/2022 11:51	0.0343
3/14/2022 11:52	0.0345
3/14/2022 11:53	0.0347
3/14/2022 11:54	0.0345
3/14/2022 11:55	0.0338
3/14/2022 11:56	0.0337
3/14/2022 11:57	0.0329
3/14/2022 11:58	0.0291
3/14/2022 11:59	0.0293
3/14/2022 12:00	0.0295
3/14/2022 12:01	0.0295
3/14/2022 12:02	0.0296
3/14/2022 12:03	0.0295
3/14/2022 12:04	0.03
3/14/2022 12:05	0.0296
3/14/2022 12:06	0.0297
3/14/2022 12:07	0.0293
3/14/2022 12:08	0.0291
3/14/2022 12:09	0.0291
3/14/2022 12:10	0.0292
3/14/2022 12:11	0.0294
3/14/2022 12:12	0.0295
3/14/2022 12:13	0.0294
3/14/2022 12:14	0.0293
3/14/2022 12:15	0.0294
3/14/2022 12:16	0.0297
3/14/2022 12:17	0.0293
3/14/2022 12:18	0.0293
3/14/2022 12:19	0.03
3/14/2022 12:20	0.0302
3/14/2022 12:21	0.0301
3/14/2022 12:22	0.0307
3/14/2022 12:23	0.0307
3/14/2022 12:24	0.0307
3/14/2022 12:25	0.0306
3/14/2022 12:26	0.0303
3/14/2022 12:27	0.0301
3/14/2022 12:28	0.0299
3/14/2022 12:29	0.0302
3/14/2022 12:30	0.0296

3/14/2022 12:31	0.029
3/14/2022 12:32	0.0292
3/14/2022 12:33	0.0291
3/14/2022 12:34	0.0279
3/14/2022 12:35	0.0281
3/14/2022 12:36	0.0281
3/14/2022 12:37	0.0276
3/14/2022 12:38	0.0276
3/14/2022 12:39	0.0275
3/14/2022 12:40	0.0273
3/14/2022 12:41	0.0273
3/14/2022 12:42	0.0277
3/14/2022 12:43	0.0279
3/14/2022 12:44	0.0277
3/14/2022 12:45	0.028
3/14/2022 12:46	0.0279
3/14/2022 12:47	0.0278
3/14/2022 12:48	0.0282
3/14/2022 12:49	0.0285
3/14/2022 12:50	0.0283
3/14/2022 12:51	0.0283
3/14/2022 12:52	0.0283
3/14/2022 12:53	0.0283
3/14/2022 12:54	0.0285
3/14/2022 12:55	0.0288
3/14/2022 12:56	0.029
3/14/2022 12:57	0.0286
3/14/2022 12:58	0.0284
3/14/2022 12:59	0.0281
3/14/2022 13:00	0.0278
3/14/2022 13:01	0.0277
3/14/2022 13:02	0.0277
3/14/2022 13:03	0.0271
3/14/2022 13:04	0.027
3/14/2022 13:05	0.0268
3/14/2022 13:06	0.0267
3/14/2022 13:07	0.0268
3/14/2022 13:08	0.0268
3/14/2022 13:09	0.0267
3/14/2022 13:10	0.0267
3/14/2022 13:11	0.0265
3/14/2022 13:12	0.0265
3/14/2022 13:13	0.0263
3/14/2022 13:14	0.0261
3/14/2022 13:15	0.0262
3/14/2022 13:16	0.0265
3/14/2022 13:17	0.0265

3/14/2022 13:18	0.0266
3/14/2022 13:19	0.0264
3/14/2022 13:20	0.0263
3/14/2022 13:21	0.0264
3/14/2022 13:22	0.0263
3/14/2022 13:23	0.0263
3/14/2022 13:24	0.0263
3/14/2022 13:25	0.0259
3/14/2022 13:26	0.0259
3/14/2022 13:27	0.0259
3/14/2022 13:28	0.0261
3/14/2022 13:29	0.0263
3/14/2022 13:30	0.0263
3/14/2022 13:31	0.0259
3/14/2022 13:32	0.0259
3/14/2022 13:33	0.0258
3/14/2022 13:34	0.0257
3/14/2022 13:35	0.0257
3/14/2022 13:36	0.0256
3/14/2022 13:37	0.0256
3/14/2022 13:38	0.0256
3/14/2022 13:39	0.0255
3/14/2022 13:40	0.0256
3/14/2022 13:41	0.0257
3/14/2022 13:42	0.0256
3/14/2022 13:43	0.0257
3/14/2022 13:44	0.0255
3/14/2022 13:45	0.0255
3/14/2022 13:46	0.0256
3/14/2022 13:47	0.0257
3/14/2022 13:48	0.0257
3/14/2022 13:49	0.0258
3/14/2022 13:50	0.0259
3/14/2022 13:51	0.0261
3/14/2022 13:52	0.0261
3/14/2022 13:53	0.0261
3/14/2022 13:54	0.0262
3/14/2022 13:55	0.0263
3/14/2022 13:56	0.0262
3/14/2022 13:57	0.0261
3/14/2022 13:58	0.0259
3/14/2022 13:59	0.0257
3/14/2022 14:00	0.0255
3/14/2022 14:01	0.0254
3/14/2022 14:02	0.0253
3/14/2022 14:03	0.0251
3/14/2022 14:04	0.0249

3/14/2022 14:05	0.0249
3/14/2022 14:06	0.0249
3/14/2022 14:07	0.0247
3/14/2022 14:08	0.0243
3/14/2022 14:09	0.024
3/14/2022 14:10	0.0238
3/14/2022 14:11	0.0237
3/14/2022 14:12	0.0236
3/14/2022 14:13	0.0236
3/14/2022 14:14	0.0238
3/14/2022 14:15	0.0237
3/14/2022 14:16	0.0237
3/14/2022 14:17	0.0237
3/14/2022 14:18	0.0238
3/14/2022 14:19	0.0239
3/14/2022 14:20	0.0239
3/14/2022 14:21	0.0241
3/14/2022 14:22	0.0243
3/14/2022 14:23	0.0244
3/14/2022 14:24	0.0245
3/14/2022 14:25	0.0244
3/14/2022 14:26	0.0246
3/14/2022 14:27	0.0246
3/14/2022 14:28	0.0246
3/14/2022 14:29	0.0245
3/14/2022 14:30	0.0247
3/14/2022 14:31	0.0246
3/14/2022 14:32	0.0245
3/14/2022 14:33	0.0245
3/14/2022 14:34	0.0245
3/14/2022 14:35	0.0245
3/14/2022 14:36	0.0243
3/14/2022 14:37	0.0239
3/14/2022 14:38	0.024
3/14/2022 14:39	0.0241
3/14/2022 14:40	0.0242
3/14/2022 14:41	0.0242
3/14/2022 14:42	0.0243
3/14/2022 14:43	0.0242
3/14/2022 14:44	0.0241
3/14/2022 14:45	0.0243
3/14/2022 14:46	0.0242
3/14/2022 14:47	0.0241
3/14/2022 14:48	0.0241
3/14/2022 14:49	0.0238
3/14/2022 14:50	0.0235
3/14/2022 14:51	0.0231

3/14/2022 14:52	0.0231
3/14/2022 14:53	0.0228
3/14/2022 14:54	0.0225
3/14/2022 14:55	0.0223
3/14/2022 14:56	0.0221
3/14/2022 14:57	0.0219
3/14/2022 14:58	0.0217
3/14/2022 14:59	0.0215
3/14/2022 15:00	0.0211
3/14/2022 15:01	0.0212
3/14/2022 15:02	0.0213
3/14/2022 15:03	0.0215
3/14/2022 15:04	0.0215
3/14/2022 15:05	0.0214
3/14/2022 15:06	0.0215
3/14/2022 15:07	0.0215
3/14/2022 15:08	0.0217
3/14/2022 15:09	0.0219
3/14/2022 15:10	0.022
3/14/2022 15:11	0.022
3/14/2022 15:12	0.0221
3/14/2022 15:13	0.0222
3/14/2022 15:14	0.0225
3/14/2022 15:15	0.0225
3/14/2022 15:16	0.0223
3/14/2022 15:17	0.0223
3/14/2022 15:18	0.022
3/14/2022 15:19	0.0219
3/14/2022 15:20	0.0219
3/14/2022 15:21	0.0219
3/14/2022 15:22	0.0217
3/14/2022 15:23	0.0219
3/14/2022 15:24	0.0219
3/14/2022 15:25	0.0221
3/14/2022 15:26	0.022
3/14/2022 15:27	0.0219
3/14/2022 15:28	0.0218
3/14/2022 15:29	0.0215
3/14/2022 15:30	0.0215
3/14/2022 15:31	0.0214
3/14/2022 15:32	0.0213
3/14/2022 15:33	0.022
3/14/2022 15:34	0.0223
3/14/2022 15:35	0.0227
3/14/2022 15:36	0.0229
3/14/2022 15:37	0.0232
3/14/2022 15:38	0.023

3/14/2022 15:39	0.023
3/14/2022 15:40	0.0229
3/14/2022 15:41	0.0232
3/14/2022 15:42	0.0235
3/14/2022 15:43	0.0237
3/14/2022 15:44	0.0239
3/14/2022 15:45	0.0242
3/14/2022 15:46	0.0245
3/14/2022 15:47	0.0246
3/14/2022 15:48	0.0245
3/14/2022 15:49	0.0245
3/14/2022 15:50	0.0244
3/14/2022 15:51	0.0245
3/14/2022 15:52	0.0244
3/14/2022 15:53	0.0247
3/14/2022 15:54	0.0247
3/14/2022 15:55	0.0247
3/14/2022 15:56	0.0243
3/14/2022 15:57	0.0241
3/14/2022 15:58	0.0241
3/14/2022 15:59	0.024
3/14/2022 16:00	0.0242
3/14/2022 16:01	0.0242
3/14/2022 16:02	0.0242
3/14/2022 16:03	0.0237
3/14/2022 16:04	0.0233

APPENDIX G

DATA USABILITY SUMMARY REPORT

P.W. GROSSER CONSULTING, INC.
P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, P.C.
PHONE: 631.589.6353 PWGROSSER.COM 630 JOHNSON AVENUE, STE 7 BOHEMIA, NY 11716
LONG ISLAND • MANHATTAN • SARATOGA SPRINGS • SYRACUSE • SEATTLE • SHELTON

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

P.W. Grosser Consulting
630 Johnson Ave, Suite 7
Bohemia, NY 11716
ATTN: Ms. Jennifer Lewis
jenniferl@pwgrosser.com

July 15, 2022

SUBJECT: 737 4th Ave, Brooklyn, NY- Data Usability Summary Report

Dear Ms. Lewis,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on April 11, 2022. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #54136:

SDG #	Fraction
L2210848, L2211451, L2212858, L2212899, L2212979, L2213494	Volatiles, Semivolatiles, Pesticides, Polychlorinated Biphenyls, Herbicides, Perfluoroalkyl & Polyfluoroalkyl Substances, Metals, Wet Chemistry, Polyaromatic Hyrodrocarbons, 1,4-Dioxane

The data validation was performed under modified Category B guidelines using quality control summaries provided by the laboratory. The analyses were validated using the following documents, as applicable to each method:

- USEPA Region 2 Standard Operating Procedure for Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-Method 8260B and 8260C, SOP HW-24, Revision 4 (October 2014)
- USEPA Region 2 Standard Operating Procedure for Semivolatile Data Validation, SOP HW-35A, Revision 0 (June 2015)
- USEPA Region 2 Standard Operating Procedure for Validating Pesticide Compounds, Organochlorine Pesticides by Gas Chromatography SW-846 Method 8081B, SOP HW-44, Revision 1.1 (December 2010)
- USEPA Region 2 Standard Operating Procedure for Validating PCB Compounds, PCBs by Gas Chromatography SW-846 Method 8082A, SOP HW-45, Revision 1 (October 2006)
- USEPA Region 2 Standard Operating Procedure for Validating Chlorinated Herbicides, SOP HW-17, Revision 3.1 (December 2010)
- USEPA Region 2 Standard Operating Procedure for the Evaluation of Metals for the Contract Laboratory Program, SOP HW-3a/c, Revision 1 (September 2016),
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, EPA 540-R-20-005 (November 2020)
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, EPA 542-R-20-006 (November 2020
- Guidelines for Sampling and Analysis of PFAS under NYSDEC's Part 375 Remedial Programs (January 2021)

Please feel free to contact us if you have any questions.

Sincerely,

Kevin Kha
kkha@lab-data.com
Project Manager/Senior Chemist

2,681 pages-DL Equis EDD NYDUSR

Attachment 1

Cat. B (1 sample per SDG or 5%) **LDC# 54136 (P.W. Grosser Consulting-Bohemia, NY / 737 4th Ave, Brooklyn, NY**

LDC	SDG#	DATE REC'D	(3) DATE DUE	VOA (TO-15)		VOA (TO-15 -SIM)		VOA (8260C)		SVOA (8270D)		PAHs (8270D -SIM)		1,4-Diox (8270D -SIM)		Pest. (8081B)		PCBs (8082A)		Metals (6010C /7471B)		Metals (6020B /7470A)		D.Metals (6020B /7470A)		Herbs (8151A)		PFAs (537M)		CN- (9010C /9012B)		Cr(III) (Calc.)		Cr(VI) (7196A)			
Matrix:	Air/Water/Soil			A	S	A	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	L2210848	04/11/22	05/02/22	-	-	-	-	0	2	0	3	-	-	-	-	0	2	0	2	0	2	-	-	-	-	0	2	0	2	0	2	0	2	0	2		
B	L2211451	04/11/22	05/02/22	-	-	-	-	0	1	0	1	-	-	-	-	0	1	0	1	0	1	-	-	-	-	0	1	-	-	0	1	0	1	0	1		
C	L2212858	04/11/22	05/02/22	1	0	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
E	L2212899	04/11/22	05/02/22	-	-	-	-	1	0	1	0	1	0	1	0	1	0	1	0	-	-	1	0	1	0	-	-	1	0	-	-	-	-	-	-		
F	L2212979	04/11/22	05/02/22	-	-	-	-	1	0	1	0	1	0	1	0	1	0	1	0	-	-	1	0	1	0	-	-	1	0	-	-	-	-	-	-		
G	L2213494	04/11/22	05/02/22	-	-	-	-	-	-	-	-	-	-	1	0	1	0	1	0	-	-	1	0	-	-	-	-	1	0	-	-	-	-	-	-		
Total	T/KK			1	0	1	0	2	3	2	4	2	0	3	0	3	3	3	3	0	3	3	0	2	0	0	3	3	2	0	3	0	3	0	3	0	55

Shaded cells indicate Category B validation (all other cells are Category A validation). These sample counts do not include MS, MSD, or DUP's. V:\LOGIN\PW Grosser\737 4th Ave Brooklyn\54136ST.wpd

Site:	737 4th Ave, Brooklyn, NY
Laboratory:	Alpha Analytical, Inc., Westborough, MA
Report No.:	L2210848
Reviewer:	Felomina Tanguilig, Josephine Go, and Kevin Kha/Laboratory Data Consultants for P.W. Grosser Consulting
Date:	June 29, 2022

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
SB007 7-9	L2210848-06	VOC, SVOC, Pesticide, PCB, Herbicide, PFAS
SB001 0-2	L2210848-14	VOC, SVOC, Pesticide, PCB, Herbicide, PFAS
SB001 0-2RE	L2210848-14RE	SVOC

Associated QC Samples(s):
Field/Trip Blanks: TRIP BLANK, EQUIPMENT BLANK, FIELD BLANK
Field Duplicate pair: None Associated

The above-listed soil samples were collected on March 1, 2022 and were analyzed for volatile organic compounds (VOCs) by SW-846 method 8260C, semivolatile organic compounds (SVOCs) by SW-846 method 8270D, organochlorine pesticides by SW-846 method 8081B, polychlorinated biphenyls (PCBs) by SW-846 method 8082A, herbicide by SW-846 method 8151A, and perfluoroalkyl and polyfluoroalkyl substances (PFAS) by method 537 modified. The data validation was performed in accordance with the USEPA Region 2 *Standard Operating Procedure for Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-Method 8260B and 8260C,* SOP HW-24, Revision 4 (October 2014), the USEPA Region 2 *Standard Operating Procedure for Semivolatile Data Validation,* SOP HW-35A, Revision 0 (June 2015), the USEPA Region 2 *Standard Operating Procedure for Validating Pesticide Compounds, Organochlorine Pesticides by Gas Chromatography SW-846 Method 8081B,* SOP HW-44, Revision 1.1 (December 2010), the USEPA Region 2 *Standard Operating Procedure for Validating PCB Compounds, PCBs by Gas Chromatography SW-846 Method 8082A,* SOP HW-45, Revision 1 (October 2006), the USEPA Region 2 *Standard Operating Procedure for Validating Chlorinated Herbicides,* SOP HW-17, Revision 3.1 (December 2010), the USEPA *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review,* EPA 540-R-20-005 (November 2020), and the Guidelines for Sampling and Analysis of PFAS under NYSDEC's Part 375 Remedial Programs (January 2021), modified as necessary to accommodate the non-CLP methodologies used.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- GC/Electron Capture Detector (GC/ECD) Instrument Performance Checks
- Liquid Chromatography/Mass Spectrometry (LC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards/Labeled Compounds
- Field Duplicate Results
- Moisture Content
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to laboratory quality control outliers with the exception listed below.

The SVOC nondetect results for phenol, 2-chlorophenol, 2-methylphenol, 2-nitrophenol, 2,4-dimethylphenol, 2,4-dichlorophenol, 2,4,6-trichlorophenol, 2,4,5-trichlorophenol, 2,4-dinitrophenol, 4-nitrophenol, pentachlorophenol, benzoic acid, 3&4-methylphenol, p-chloro-m-cresol, and 4,6-dinitro-8-cresol in samples SB001 0-2 and SB001 0-2RE were rejected (R) due to low surrogate recoveries. The results are not usable for project objectives, which may have a major impact on the data usability.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

VOC, Pesticide, PCB, Herbicide, and PFAS

All technical holding time requirements were met.

SVOC

Compounds that were recovered outside of holding time are summarized in the following table.

Sample	Compound	Total Days From Sample Collection Until Extraction	Required Holding Time (in Days) From Sample Collection Until Extraction	Flag
SB001 0-2RE	All compounds	21	14	J detects/UJ nondetects

The SVOC results may be biased low due to technical holding time exceedances. The results can be used for project objectives as estimated values (J) or nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

GC/MS Tunes

VOC and SVOC

All criteria were met.

GC/ECD Instrument Performance Checks

Pesticide

All criteria were met.

LC/MS Tunes

PFAS

All criteria were met.

Initial and Continuing Calibrations

VOC

Initial calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Standard ID	Compound	IC %D	Associated Samples		Validation Action
02/03/22	ICV-VOA111	Dichlorodifluoromethane	78.2	SB007 7-9	SS	UJ nondetects
		Chloromethane	33.0	SB001 0-2	SS	UJ nondetects
		Benzene	37.6		SS	UJ nondetects
		Bromomethane	38.8		SS	UJ nondetects
		Acetone	30.8		SS	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The dichlorodifluoromethane, chloromethane, benzene, bromomethane, and acetone results were estimated due to second source calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Standard ID	Compound	CC %D	Associated Samples		Validation Action
03/10/22	CCV-VOA111	Vinyl chloride	24.1	SB001 0-2	XX	J detects/UJ nondetects
		Chloroethane	29.9		XX	J detects/UJ nondetects
		Acetone	24.4		XX	J detects/UJ nondetects
		2-Butanone	20.9		XX	J detects/UJ nondetects
		1,4-Dioxane	38.2		XX	J detects/UJ nondetects
		Tetrachloroethene	23.6		XX	J detects/UJ nondetects
03/11/22	CCV-VOA111	Vinyl chloride	24.8	SB007 7-9	XX	UJ nondetects
		Chloroethane	29.3		XX	UJ nondetects
		Vinyl acetate	20.2		XX	UJ nondetects
		Tetrachloroethene	22.3		XX	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The results for the compounds listed above were estimated due to continuing calibration exceedances. The bias cannot be determined. The results can be used for project objectives as estimated values (J) or nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

SVOC

Initial calibration:

All criteria were met.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Standard ID	Compound	CC %D	Associated Samples		Validation Action
03/16/22 (21:04)	CCV-Juliet	Hexachlorocyclopentadiene	36.8	SB001 0-2	XX	UJ nondetects
		4-Nitrophenol	24.0		XX	UJ nondetects
03/16/22 (09:53)	CCV-Juliet	1,4-Dioxane	28.4	SB001 0-2	XX	UJ nondetects

Date	Standard ID	Compound	CC %D	Associated Samples		Validation Action
03/18/22 (07:40)	CCV-Juliet	4-Nitrophenol Hexachlorocyclopentadiene	24.0 35.1	SB007 7-9	XX XX	UJ nondetects UJ nondetects
03/18/22 (08:28)	CCV-Juliet	1,4-Dioxane	32.1	SB007 7-9	XX	UJ nondetects
03/23/22 (12:10)	CCV-Mork	Bis(2-chloroisopropyl) ether	31.3	SB001 0-2RE	XX	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The hexachlorocyclopentadiene, 4-nitrophenol, 1,4-dioxane, and bis(2-chloroisopropyl) ether results were estimated due to continuing calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Pesticide

Initial calibration:

All criteria were met.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Standard ID	Column	Compound	CC %D	Associated Samples		Validation Action
03/14/22	CCV-Pest10	CLP 1	Endrin aldehyde	20.4	SB001 0-2	XX	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The endrin aldehyde result was estimated due to continuing calibration exceedance. The bias cannot be determined. The result can be used for project objectives as nondetect with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

PCB and Herbicide

All criteria were met.

PFAS

Initial calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Standard ID	Compound	IC %D	Associated Samples		Validation Action
03/07/22	I15756	L-N-Methylperfluorooctanesulfonamidoacetic acid	32.7	SB007 7-9	SS	UJ nondetects
		L-N-Ethylperfluorooctanesulfonamidoacetic acid	32.4	SB001 0-2	SS	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
ISC = Instrument sensitivity check (ISC) percent difference (%D) > 50; estimate (J/UJ) positive and nondetect results.

The n-methylperfluorooctanesulfonamidoacetic acid and n-ethylperfluorooctanesulfonamidoacetic acid results were estimated due to second source calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Standard ID	Compound	CC %D	Associated Samples		Validation Action
03/18/22	I16452	br-N-Methylperfluorooctanesulfonamidoacetic acid	72	SB007 7-9	ISC	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
ISC = Instrument sensitivity check (ISC) percent difference (%D) > 50; estimate (J/UJ) positive and nondetect results.

The n-methylperfluorooctanesulfonamidoacetic acid result was estimated due to instrument sensitivity check exceedance. The bias cannot be determined. The result can be used for project objectives as nondetect with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Blanks

VOC

Contamination was not detected in the method blanks.

No positive results were found in the trip blank sample TRIP BLANK and equipment blank sample EQUIPMENT BLANK for VOC analysis.

SVOC, Pesticide, PCB, and Herbicide

Contamination was not detected in the method blanks.

No positive results were found in the equipment blank sample EQUIPMENT BLANK for SVOC, pesticide, PCB, and herbicide analyses.

PFAS

Contamination was not detected in the method blanks.

No positive results were found in the field blank sample FIELD BLANK for PFAS analysis.

Contamination was detected in the equipment blank sample EQUIPMENT BLANK for PFAS analysis. The presence of blank contamination indicates that false positives may exist for these compounds in the associated samples. Action Levels (ALs) were established at the reporting limit (RL) for contaminants. The following table summarizes the contamination detected.

Field Blank ID	Compound	Level Detected	Action Level	Associated Samples
EQUIPMENT BLANK	1H,1H,2H,2H- Perfluorooctanesulfonic acid	3.85 ng/L	RL	SB007 7-9 SB001 0-2

Sample results were qualified as follows:

- If sample concentration was < the reporting limit (RL) and ≤ the Action Level, qualify the result as a nondetect (U) at the RL.
- If sample concentration was > the RL and ≤ the Action Level, qualify the result as not detected (U) at the reported concentration.

No samples were qualified since the associated sample results were nondetect.

Surrogate Recoveries

VOC, Pesticide, PCB, and Herbicide

All criteria were met.

SVOC

The following table lists the surrogate percent recoveries (%R) outside of control limits in the SVOC analysis and the resulting validation actions.

Sample ID	Surrogate	%R (Limits)	Validation Action
SB001 0-2	2-Fluorophenol	3 (25-120)	R nondetects
	2,4,6-Tribromophenol	2 (10-136)	R nondetects
SB001 0-2RE	2-Fluorophenol	0 (25-120)	R nondetects
	2,4,6-Tribromophenol	2 (10-136)	R nondetects
	Phenol-d6	4 (10-120)	R nondetects

The SVOC nondetect results for phenol, 2-chlorophenol, 2-methylphenol, 2-nitrophenol, 2,4-dimethylphenol, 2,4-dichlorophenol, 2,4,6-trichlorophenol, 2,4,5-trichlorophenol, 2,4-dinitrophenol, 4-nitrophenol, pentachlorophenol, benzoic acid, 3&4-methylphenol, p-chloro-m-cresol, and 4,6-dinitro-o-cresol in samples SB001 0-2 and SB001 0-2RE were rejected (R) due to low surrogate recoveries. The results are not usable for project objectives, which may have a major impact on the data usability.

Surrogates were recovered outside of control limits for sample SB007 7-9. No data were qualified for samples analyzed at greater than or equal to 5X dilution.

MS/MSD Results

VOC, SVOC, Pesticide, and PFAS

MS/MSD analyses were not associated with this sample set. Validation action was not required on this basis.

PCB and Herbicide

MS/MSD analyses were performed on an associated project sample for PCB and herbicide analyses. All criteria were met.

LCS Results

VOC

The following table lists the LCS/LCSD percent recoveries (%R) outside of control limits in the VOC analysis and the resulting validation actions.

LCS ID	Compound	LCS %R (Limits)	LCS/D %R (Limits)	Affected Sample	Validation Action
WG1614355-LCS/LCSD	1,4-Dioxane	138 (65-136)	-	SB001 0-2	None

- Within control limits

Validation action was not required for 1,4-dioxane due to high LCS/LCSD recovery as positive results only are affected and this compound not detected in the associated sample.

The following table lists the LCS/LCSD relative percent differences (RPD) outside of control limits in the VOC analysis and the resulting validation actions.

LCS ID	Compound	RPD (Limits)	Affected Sample	Validation Action
WG1614355-LCS/LCSD	1,4-Dioxane	46 (≤30)	SB001 0-2	None

Validation action was not required for 1,4-dioxane due to LCS/LCSD relative percent difference exceedance as positive results only are affected and this compound was not detected in the associated sample.

SVOC

The following table lists the LCS/LCSD percent recoveries (%R) outside of control limits in the SVOC analysis and the resulting validation actions.

LCS ID	Compound	LCS %R (Limits)	LCS/D %R (Limits)	Affected Sample	Validation Action
WG1614960-2/3 LCS/LCSD	Hexachlorocyclopentadiene	36 (40-140)	31 (40-140)	SB007 7-9 SB001 0-2	UJ nondetects
WG1618532-2/3 LCS/LCSD	p-Chloro-m-cresol	-	121 (26-103)	SB001 0-2RE	UJ nondetects
	Phenol	-	101 (26-90)		UJ nondetects
	Benzoic acid	-	113 (10-110)		UJ nondetects

- Within control limits

The hexachlorocyclopentadiene result may be biased low due to low LCS/LCSD percent recoveries. The result can be used for project objectives as nondetect with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

The p-chloro-m-cresol, phenol, and benzoic acid results may be biased high due to high LCS/LCSD percent recoveries. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

The following table lists the LCS/LCSD relative percent differences (RPD) outside of control limits in the SVOC analysis and the resulting validation actions.

LCS ID	Compound	RPD (Limits)	Affected Sample	Validation Action
WG1618532-2/3 LCS/LCSD	2-Methylnaphthalene	64 (≤50)	SB001 0-2RE	UJ nondetects

The 2-methylnaphthalene result was estimated due to LCS/LCSD relative percent difference exceedance. The bias cannot be determined. The result can be used for project objectives as nondetect with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Pesticide, PCB, Herbicide, and PFAS

All criteria were met.

Internal Standards

VOC, SVOC, Pesticide, PCB, and Herbicide

All criteria were met.

Labeled Compounds

PFAS

All criteria were met.

Field Duplicate Results

A field duplicate pair was not associated with this sample set. Validation action was not required on this basis.

Moisture Content

All criteria were met.

Quantitation Limits and Data Assessment

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the VOC, SVOC, pesticide, PCB analyses. These results were qualified as estimated (J) by the laboratory.

No results were reported below the RL and above the MDL in the herbicide and PFAS analyses.

Due to high target compound levels or difficult sample matrix, select samples were analyzed at dilutions. The following table lists the sample dilutions which were performed and the results reported. RLs were elevated accordingly.

Sample	SVOC Analysis Reported
SB007 7-9	5-fold dilution due to nature of sample matrix

Dilutions were not required for VOC, pesticide, PCB, herbicide, and PFAS analyses.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

SVOC

In the case where more than one result was reported for an individual sample, the least technically acceptable results were deemed not reportable as follows:

Sample	Compound	Reason	Validation Action
SB001 0-2RE	All compounds	Extracted outside of holding time.	Not reportable

Pesticide

The following table lists the GC dual column RPDs for pesticide analysis which were outside the control limit of 40% and the resulting actions. The direction of the bias cannot be determined from this nonconformance. All results are usable as estimated values (J).

Sample	Compound	RPD (%)	Validation Action
SB001 0-2	trans-Chlordane	60	J detects

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-06	Date Collected	: 03/01/22 14:00
Client ID	: SB007 7-9	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/11/22 17:01
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: AJK
Lab File ID	: V11220311A25	Instrument ID	: VOA111
Sample Amount	: 5.4 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 85
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	320	140	U	U
75-34-3	1,1-Dichloroethane	ND	64	9.2	U	
67-66-3	Chloroform	ND	96	8.9	U	
56-23-5	Carbon tetrachloride	ND	64	15.	U	
78-87-5	1,2-Dichloropropane	ND	64	8.0	U	
124-48-1	Dibromochloromethane	ND	64	8.9	U	
79-00-5	1,1,2-Trichloroethane	ND	64	17.	U	
127-18-4	Tetrachloroethene	ND	32	12.	U	UJ
108-90-7	Chlorobenzene	ND	32	8.1	U	U
75-69-4	Trichlorofluoromethane	ND	250	44.	U	
107-06-2	1,2-Dichloroethane	ND	64	16.	U	
71-55-6	1,1,1-Trichloroethane	ND	32	11.	U	
75-27-4	Bromodichloromethane	ND	32	6.9	U	
10061-02-6	trans-1,3-Dichloropropene	ND	64	17.	U	
10061-01-5	cis-1,3-Dichloropropene	ND	32	10.	U	
542-75-6	1,3-Dichloropropene, Total	ND	32	10.	U	
563-58-6	1,1-Dichloropropene	ND	32	10.	U	
75-25-2	Bromoform	ND	250	16.	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	32	10.	U	
71-43-2	Benzene	ND	32	10.	U	UJ
108-88-3	Toluene	65	64	34.		
100-41-4	Ethylbenzene	680	64	9.0		
74-87-3	Chloromethane	ND	250	59.	U	UJ
74-83-9	Bromomethane	ND	130	37.	U	UJ
75-01-4	Vinyl chloride	ND	64	21.	U	UJ

KK 7/14/22

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-06	Date Collected	: 03/01/22 14:00
Client ID	: SB007 7-9	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/11/22 17:01
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: AJK
Lab File ID	: V11220311A25	Instrument ID	: VOA111
Sample Amount	: 5.4 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 85
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-00-3	Chloroethane	ND	130	29.	U	UJ
75-35-4	1,1-Dichloroethene	ND	64	15.	U	U
156-60-5	trans-1,2-Dichloroethene	ND	96	8.7	U	
79-01-6	Trichloroethene	ND	32	8.7	U	
95-50-1	1,2-Dichlorobenzene	ND	130	9.2	U	
541-73-1	1,3-Dichlorobenzene	ND	130	9.4	U	
106-46-7	1,4-Dichlorobenzene	ND	130	11.	U	
1634-04-4	Methyl tert butyl ether	ND	130	13.	U	
179601-23-1	p/m-Xylene	1900	130	36.		
95-47-6	o-Xylene	680	64	18.		
1330-20-7	Xylenes, Total	2600	64	18.		
156-59-2	cis-1,2-Dichloroethene	ND	64	11.	U	U
540-59-0	1,2-Dichloroethene, Total	ND	64	8.7	U	
74-95-3	Dibromomethane	ND	130	15.	U	
100-42-5	Styrene	ND	64	12.	U	
75-71-8	Dichlorodifluoromethane	ND	640	58.	U	UJ
67-64-1	Acetone	ND	640	310	U	UJ
75-15-0	Carbon disulfide	ND	640	290	U	U
78-93-3	2-Butanone	ND	640	140	U	U
108-05-4	Vinyl acetate	ND	640	140	U	UJ
108-10-1	4-Methyl-2-pentanone	ND	640	82.	U	U
96-18-4	1,2,3-Trichloropropane	ND	130	8.1	U	
591-78-6	2-Hexanone	ND	640	75.	U	
74-97-5	Bromochloromethane	ND	130	13.	U	
594-20-7	2,2-Dichloropropane	ND	130	13.	U	

KK 7/14/22

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-06	Date Collected	: 03/01/22 14:00
Client ID	: SB007 7-9	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/11/22 17:01
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: AJK
Lab File ID	: V11220311A25	Instrument ID	: VOA111
Sample Amount	: 5.4 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 85
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
106-93-4	1,2-Dibromoethane	ND	64	18.	U	U
142-28-9	1,3-Dichloropropane	ND	130	11.	U	
630-20-6	1,1,1,2-Tetrachloroethane	ND	32	8.4	U	
108-86-1	Bromobenzene	ND	130	9.2	U	
104-51-8	n-Butylbenzene	2300	64	11.		
135-98-8	sec-Butylbenzene	1900	64	9.3		
98-06-6	tert-Butylbenzene	220	130	7.5		
95-49-8	o-Chlorotoluene	ND	130	12.	U	U
106-43-4	p-Chlorotoluene	ND	130	6.9	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	190	64.	U	
87-68-3	Hexachlorobutadiene	ND	250	11.	U	
98-82-8	Isopropylbenzene	610	64	6.9		
99-87-6	p-Isopropyltoluene	1900	64	6.9		
91-20-3	Naphthalene	15000	250	41.		
107-13-1	Acrylonitrile	ND	250	73.	U	U
103-65-1	n-Propylbenzene	1400	64	11.		
87-61-6	1,2,3-Trichlorobenzene	ND	130	20.	U	U
120-82-1	1,2,4-Trichlorobenzene	ND	130	17.	U	U
108-67-8	1,3,5-Trimethylbenzene	5500	130	12.		
95-63-6	1,2,4-Trimethylbenzene	13000	130	21.		
123-91-1	1,4-Dioxane	ND	5100	2200	U	U
105-05-5	p-Diethylbenzene	1700	130	11.		
622-96-8	p-Ethyltoluene	7500	130	24.		
95-93-2	1,2,4,5-Tetramethylbenzene	8200	130	12.		
60-29-7	Ethyl ether	ND	130	22.	U	U

KK 7/14/22

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-06	Date Collected	: 03/01/22 14:00
Client ID	: SB007 7-9	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/11/22 17:01
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: AJK
Lab File ID	: V11220311A25	Instrument ID	: VOA111
Sample Amount	: 5.4 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 85
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
110-57-6	trans-1,4-Dichloro-2-butene	ND	320	90.	U	U

KK 7/14/22

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/10/22 15:08
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V11220310A18	Instrument ID	: VOA111
Sample Amount	: 5.3 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 95
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	5.0	2.3	U	U
75-34-3	1,1-Dichloroethane	ND	0.99	0.14	U	U
67-66-3	Chloroform	0.16	1.5	0.14	J	J
56-23-5	Carbon tetrachloride	ND	0.99	0.23	U	U
78-87-5	1,2-Dichloropropane	ND	0.99	0.12	U	
124-48-1	Dibromochloromethane	ND	0.99	0.14	U	
79-00-5	1,1,2-Trichloroethane	ND	0.99	0.26	U	
127-18-4	Tetrachloroethene	0.77	0.50	0.19		J
108-90-7	Chlorobenzene	ND	0.50	0.13	U	U
75-69-4	Trichlorofluoromethane	ND	4.0	0.69	U	
107-06-2	1,2-Dichloroethane	ND	0.99	0.26	U	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	U	
75-27-4	Bromodichloromethane	ND	0.50	0.11	U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.99	0.27	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	U	
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.16	U	
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U	
75-25-2	Bromoform	ND	4.0	0.24	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.16	U	
71-43-2	Benzene	ND	0.50	0.16	U	UJ
108-88-3	Toluene	0.67	0.99	0.54	J	J
100-41-4	Ethylbenzene	0.57	0.99	0.14	J	J
74-87-3	Chloromethane	ND	4.0	0.93	U	UJ
74-83-9	Bromomethane	ND	2.0	0.58	U	UJ
75-01-4	Vinyl chloride	ND	0.99	0.33	U	UJ

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Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/10/22 15:08
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V11220310A18	Instrument ID	: VOA111
Sample Amount	: 5.3 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 95
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier	
75-00-3	Chloroethane	ND	2.0	0.45	U	UJ
75-35-4	1,1-Dichloroethene	ND	0.99	0.24	U	U
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.14	U	
79-01-6	Trichloroethene	ND	0.50	0.14	U	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.14	U	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.15	U	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.17	U	
1634-04-4	Methyl tert butyl ether	ND	2.0	0.20	U	
179601-23-1	p/m-Xylene	ND	2.0	0.56	U	
95-47-6	o-Xylene	ND	0.99	0.29	U	
1330-20-7	Xylenes, Total	ND	0.99	0.29	U	
156-59-2	cis-1,2-Dichloroethene	ND	0.99	0.17	U	
540-59-0	1,2-Dichloroethene, Total	ND	0.99	0.14	U	
74-95-3	Dibromomethane	ND	2.0	0.24	U	
100-42-5	Styrene	0.20	0.99	0.19	J	J
75-71-8	Dichlorodifluoromethane	ND	9.9	0.91	U	UJ
67-64-1	Acetone	ND	9.9	4.8	U	UJ
75-15-0	Carbon disulfide	ND	9.9	4.5	U	U
78-93-3	2-Butanone	ND	9.9	2.2	U	UJ
108-05-4	Vinyl acetate	ND	9.9	2.1	U	U
108-10-1	4-Methyl-2-pentanone	ND	9.9	1.3	U	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.13	U	
591-78-6	2-Hexanone	ND	9.9	1.2	U	
74-97-5	Bromochloromethane	ND	2.0	0.20	U	
594-20-7	2,2-Dichloropropane	ND	2.0	0.20	U	

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Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/10/22 15:08
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V11220310A18	Instrument ID	: VOA111
Sample Amount	: 5.3 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 95
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier	
106-93-4	1,2-Dibromoethane	ND	0.99	0.28	U	U
142-28-9	1,3-Dichloropropane	ND	2.0	0.17	U	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U	
108-86-1	Bromobenzene	ND	2.0	0.14	U	
104-51-8	n-Butylbenzene	ND	0.99	0.17	U	
135-98-8	sec-Butylbenzene	ND	0.99	0.14	U	
98-06-6	tert-Butylbenzene	ND	2.0	0.12	U	
95-49-8	o-Chlorotoluene	ND	2.0	0.19	U	
106-43-4	p-Chlorotoluene	ND	2.0	0.11	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.0	0.99	U	
87-68-3	Hexachlorobutadiene	ND	4.0	0.17	U	
98-82-8	Isopropylbenzene	ND	0.99	0.11	U	
99-87-6	p-Isopropyltoluene	ND	0.99	0.11	U	
91-20-3	Naphthalene	ND	4.0	0.65	U	
107-13-1	Acrylonitrile	ND	4.0	1.1	U	
103-65-1	n-Propylbenzene	ND	0.99	0.17	U	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.32	U	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.27	U	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.19	U	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.33	U	
123-91-1	1,4-Dioxane	ND	80	35.	U	UJ
105-05-5	p-Diethylbenzene	ND	2.0	0.18	U	U
622-96-8	p-Ethyltoluene	ND	2.0	0.38	U	
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.19	U	
60-29-7	Ethyl ether	ND	2.0	0.34	U	

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Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/10/22 15:08
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V11220310A18	Instrument ID	: VOA111
Sample Amount	: 5.3 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 95
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.0	1.4	U	U

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Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-06D	Date Collected	: 03/01/22 14:00
Client ID	: SB007 7-9	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/18/22 12:05
Sample Matrix	: SOIL	Date Extracted	: 03/12/22
Analytical Method	: 1,8270D	Dilution Factor	: 5
Lab File ID	: 848-06D1	Analyst	: JG
Sample Amount	: 30.78 g	Instrument ID	: JULIET
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 85
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier	
83-32-9	Acenaphthene	1700	770	99.		
120-82-1	1,2,4-Trichlorobenzene	ND	960	110	U	U
118-74-1	Hexachlorobenzene	ND	580	110	U	
111-44-4	Bis(2-chloroethyl)ether	ND	860	130	U	
91-58-7	2-Chloronaphthalene	ND	960	95.	U	
95-50-1	1,2-Dichlorobenzene	ND	960	170	U	
541-73-1	1,3-Dichlorobenzene	ND	960	160	U	
106-46-7	1,4-Dichlorobenzene	ND	960	170	U	
91-94-1	3,3'-Dichlorobenzidine	ND	960	260	U	
121-14-2	2,4-Dinitrotoluene	ND	960	190	U	
606-20-2	2,6-Dinitrotoluene	ND	960	160	U	
206-44-0	Fluoranthene	130	580	110	J	J
7005-72-3	4-Chlorophenyl phenyl ether	ND	960	100	U	U
101-55-3	4-Bromophenyl phenyl ether	ND	960	150	U	
108-60-1	Bis(2-chloroisopropyl)ether	ND	1200	160	U	
111-91-1	Bis(2-chloroethoxy)methane	ND	1000	96.	U	
87-68-3	Hexachlorobutadiene	ND	960	140	U	
77-47-4	Hexachlorocyclopentadiene	ND	2700	870	U	U J
67-72-1	Hexachloroethane	ND	770	160	U	U
78-59-1	Isophorone	ND	860	120	U	U
91-20-3	Naphthalene	5200	960	120		
98-95-3	Nitrobenzene	ND	860	140	U	U

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Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-06D	Date Collected	: 03/01/22 14:00
Client ID	: SB007 7-9	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/18/22 12:05
Sample Matrix	: SOIL	Date Extracted	: 03/12/22
Analytical Method	: 1,8270D	Dilution Factor	: 5
Lab File ID	: 848-06D1	Analyst	: JG
Sample Amount	: 30.78 g	Instrument ID	: JULIET
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 85
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
86-30-6	NDPA/DPA	ND	770	110	U	U
621-64-7	n-Nitrosodi-n-propylamine	ND	960	150	U	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	960	330	U	
85-68-7	Butyl benzyl phthalate	ND	960	240	U	
84-74-2	Di-n-butylphthalate	ND	960	180	U	
117-84-0	Di-n-octylphthalate	ND	960	330	U	
84-66-2	Diethyl phthalate	ND	960	89.	U	
131-11-3	Dimethyl phthalate	ND	960	200	U	
56-55-3	Benzo(a)anthracene	ND	580	110	U	
50-32-8	Benzo(a)pyrene	ND	770	230	U	
205-99-2	Benzo(b)fluoranthene	ND	580	160	U	
207-08-9	Benzo(k)fluoranthene	ND	580	150	U	
218-01-9	Chrysene	ND	580	100	U	
208-96-8	Acenaphthylene	ND	770	150	U	
120-12-7	Anthracene	620	580	190		
191-24-2	Benzo(ghi)perylene	ND	770	110	U	U
86-73-7	Fluorene	3100	960	93.		
85-01-8	Phenanthrene	4800	580	120		
53-70-3	Dibenzo(a,h)anthracene	ND	580	110	U	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	770	130	U	U
129-00-0	Pyrene	530	580	95.	J	J
92-52-4	Biphenyl	1900	2200	120	J	J

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Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-06D	Date Collected	: 03/01/22 14:00
Client ID	: SB007 7-9	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/18/22 12:05
Sample Matrix	: SOIL	Date Extracted	: 03/12/22
Analytical Method	: 1,8270D	Dilution Factor	: 5
Lab File ID	: 848-06D1	Analyst	: JG
Sample Amount	: 30.78 g	Instrument ID	: JULIET
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 85
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier	
106-47-8	4-Chloroaniline	ND	960	170	U	U
88-74-4	2-Nitroaniline	ND	960	180	U	
99-09-2	3-Nitroaniline	ND	960	180	U	
100-01-6	4-Nitroaniline	ND	960	400	U	
132-64-9	Dibenzofuran	1200	960	91.		
91-57-6	2-Methylnaphthalene	29000	1200	120		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	960	100	U	U
98-86-2	Acetophenone	ND	960	120	U	
88-06-2	2,4,6-Trichlorophenol	ND	580	180	U	
59-50-7	p-Chloro-m-cresol	ND	960	140	U	
95-57-8	2-Chlorophenol	ND	960	110	U	
120-83-2	2,4-Dichlorophenol	ND	860	150	U	
105-67-9	2,4-Dimethylphenol	ND	960	320	U	
88-75-5	2-Nitrophenol	ND	2100	360	U	
100-02-7	4-Nitrophenol	ND	1300	390	U	UJ
51-28-5	2,4-Dinitrophenol	ND	4600	450	U	U
534-52-1	4,6-Dinitro-o-cresol	ND	2500	460	U	
87-86-5	Pentachlorophenol	ND	770	210	U	
108-95-2	Phenol	ND	960	140	U	
95-48-7	2-Methylphenol	ND	960	150	U	
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	1400	150	U	
95-95-4	2,4,5-Trichlorophenol	ND	960	180	U	

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Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-06D	Date Collected	: 03/01/22 14:00
Client ID	: SB007 7-9	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/18/22 12:05
Sample Matrix	: SOIL	Date Extracted	: 03/12/22
Analytical Method	: 1,8270D	Dilution Factor	: 5
Lab File ID	: 848-06D1	Analyst	: JG
Sample Amount	: 30.78 g	Instrument ID	: JULIET
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 85
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
65-85-0	Benzoic Acid	ND	3100	970	U	U
100-51-6	Benzyl Alcohol	ND	960	290	U	↓
86-74-8	Carbazole	ND	960	93.	U	
123-91-1	1,4-Dioxane	ND	140	44.	U	UJ

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Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	**Lab Number**	: L2210848
Project Name	: TOT2101	**Project Number**	: TOT2101
Lab ID	: L2210848-14	**Date Collected**	: 03/01/22 16:05
Client ID	: SB001 0-2	**Date Received**	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	**Date Analyzed**	: 03/17/22 08:20
Sample Matrix	: SOIL	**Date Extracted**	: 03/12/22
Analytical Method	: 1,8270D	**Dilution Factor**	: 1
Lab File ID	: 10848-14	**Analyst**	: IM
Sample Amount	: 30.53 g	**Instrument ID**	: JULIET
Extraction Method	: EPA 3546	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: 95
GPC Cleanup	: N	**Injection Volume**	: 1 uL

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier	
83-32-9	Acenaphthene	ND	140	18.	U	U
120-82-1	1,2,4-Trichlorobenzene	ND	170	20.	U	
118-74-1	Hexachlorobenzene	ND	100	19.	U	
111-44-4	Bis(2-chloroethyl)ether	ND	160	24.	U	
91-58-7	2-Chloronaphthalene	ND	170	17.	U	
95-50-1	1,2-Dichlorobenzene	ND	170	31.	U	
541-73-1	1,3-Dichlorobenzene	ND	170	30.	U	
106-46-7	1,4-Dichlorobenzene	ND	170	30.	U	
91-94-1	3,3'-Dichlorobenzidine	ND	170	46.	U	
121-14-2	2,4-Dinitrotoluene	ND	170	35.	U	
606-20-2	2,6-Dinitrotoluene	ND	170	30.	U	
206-44-0	Fluoranthene	170	100	20.		
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	18.	U	U
101-55-3	4-Bromophenyl phenyl ether	ND	170	26.	U	
108-60-1	Bis(2-chloroisopropyl)ether	ND	210	30.	U	
111-91-1	Bis(2-chloroethoxy)methane	ND	190	17.	U	
87-68-3	Hexachlorobutadiene	ND	170	25.	U	
77-47-4	Hexachlorocyclopentadiene	ND	500	160	U	UJ
67-72-1	Hexachloroethane	ND	140	28.	U	U
78-59-1	Isophorone	ND	160	22.	U	
91-20-3	Naphthalene	ND	170	21.	U	
98-95-3	Nitrobenzene	ND	160	26.	U	

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Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/17/22 08:20
Sample Matrix	: SOIL	Date Extracted	: 03/12/22
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 10848-14	Analyst	: IM
Sample Amount	: 30.53 g	Instrument ID	: JULIET
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 95
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
86-30-6	NDPA/DPA	ND	140	20.	U	U
621-64-7	n-Nitrosodi-n-propylamine	ND	170	27.	U	U
117-81-7	Bis(2-ethylhexyl)phthalate	610	170	60.		
85-68-7	Butyl benzyl phthalate	480	170	44.		
84-74-2	Di-n-butylphthalate	110	170	33.	J	J
117-84-0	Di-n-octylphthalate	ND	170	59.	U	U
84-66-2	Diethyl phthalate	ND	170	16.	U	U
131-11-3	Dimethyl phthalate	ND	170	36.	U	U
56-55-3	Benzo(a)anthracene	100	100	20.		
50-32-8	Benzo(a)pyrene	89	140	42.	J	J
205-99-2	Benzo(b)fluoranthene	100	100	29.		
207-08-9	Benzo(k)fluoranthene	46	100	28.	J	J
218-01-9	Chrysene	100	100	18.		
208-96-8	Acenaphthylene	ND	140	27.	U	U
120-12-7	Anthracene	34	100	34.	J	J
191-24-2	Benzo(ghi)perylene	59	140	20.	J	J
86-73-7	Fluorene	ND	170	17.	U	U
85-01-8	Phenanthrene	130	100	21.		
53-70-3	Dibenzo(a,h)anthracene	ND	100	20.	U	U
193-39-5	Indeno(1,2,3-cd)pyrene	48	140	24.	J	J
129-00-0	Pyrene	160	100	17.		
92-52-4	Biphenyl	ND	400	22.	U	U

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Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/17/22 08:20
Sample Matrix	: SOIL	Date Extracted	: 03/12/22
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 10848-14	Analyst	: IM
Sample Amount	: 30.53 g	Instrument ID	: JULIET
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 95
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier	
106-47-8	4-Chloroaniline	ND	170	32.	U	U
88-74-4	2-Nitroaniline	ND	170	33.	U	
99-09-2	3-Nitroaniline	ND	170	33.	U	
100-01-6	4-Nitroaniline	ND	170	72.	U	
132-64-9	Dibenzofuran	ND	170	16.	U	
91-57-6	2-Methylnaphthalene	ND	210	21.	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	18.	U	
98-86-2	Acetophenone	ND	170	21.	U	
88-06-2	2,4,6-Trichlorophenol	ND	100	33.	U	R
59-50-7	p-Chloro-m-cresol	ND	170	26.	U	R
95-57-8	2-Chlorophenol	ND	170	20.	U	R
120-83-2	2,4-Dichlorophenol	ND	160	28.	U	R
105-67-9	2,4-Dimethylphenol	ND	170	57.	U	R
88-75-5	2-Nitrophenol	ND	370	65.	U	R
100-02-7	4-Nitrophenol	ND	240	71.	U	R
51-28-5	2,4-Dinitrophenol	ND	830	81.	U	R
534-52-1	4,6-Dinitro-o-cresol	ND	450	83.	U	R
87-86-5	Pentachlorophenol	ND	140	38.	U	R
108-95-2	Phenol	ND	170	26.	U	R
95-48-7	2-Methylphenol	ND	170	27.	U	R
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	250	27.	U	R
95-95-4	2,4,5-Trichlorophenol	ND	170	33.	U	R

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Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/17/22 08:20
Sample Matrix	: SOIL	Date Extracted	: 03/12/22
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 10848-14	Analyst	: IM
Sample Amount	: 30.53 g	Instrument ID	: JULIET
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 95
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
65-85-0	Benzoic Acid	ND	560	180	U	R
100-51-6	Benzyl Alcohol	ND	170	53.	U	U
86-74-8	Carbazole	ND	170	17.	U	U
123-91-1	1,4-Dioxane	ND	26	8.0	U	UJ

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Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14RE	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/23/22 10:03
Sample Matrix	: SOIL	Date Extracted	: 03/22/22
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 10848-14	Analyst	: IM
Sample Amount	: 30.85 g	Instrument ID	: MORK
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 95
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
83-32-9	Acenaphthene	ND	140	18.	U
120-82-1	1,2,4-Trichlorobenzene	ND	170	20.	U
118-74-1	Hexachlorobenzene	ND	100	19.	U
111-44-4	Bis(2-chloroethyl)ether	ND	150	23.	U
91-58-7	2-Chloronaphthalene	ND	170	17.	U
95-50-1	1,2-Dichlorobenzene	ND	170	31.	U
541-73-1	1,3-Dichlorobenzene	ND	170	29.	U
106-46-7	1,4-Dichlorobenzene	ND	170	30.	U
91-94-1	3,3'-Dichlorobenzidine	ND	170	46.	U
121-14-2	2,4-Dinitrotoluene	ND	170	34.	U
606-20-2	2,6-Dinitrotoluene	ND	170	29.	U
206-44-0	Fluoranthene	180	100	20.	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	18.	U
101-55-3	4-Bromophenyl phenyl ether	ND	170	26.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	200	29.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	180	17.	U
87-68-3	Hexachlorobutadiene	ND	170	25.	U
77-47-4	Hexachlorocyclopentadiene	ND	490	160	U
67-72-1	Hexachloroethane	ND	140	28.	U
78-59-1	Isophorone	ND	150	22.	U
91-20-3	Naphthalene	ND	170	21.	U
98-95-3	Nitrobenzene	ND	150	25.	U

Not Reportable

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Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14RE	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/23/22 10:03
Sample Matrix	: SOIL	Date Extracted	: 03/22/22
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 10848-14	Analyst	: IM
Sample Amount	: 30.85 g	Instrument ID	: MORK
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 95
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
86-30-6	NDPA/DPA	ND	140	20.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	170	26.	U
117-81-7	Bis(2-ethylhexyl)phthalate	260	170	59.	
85-68-7	Butyl benzyl phthalate	440	170	43.	
84-74-2	Di-n-butylphthalate	78	170	32.	J
117-84-0	Di-n-octylphthalate	ND	170	58.	U
84-66-2	Diethyl phthalate	ND	170	16.	U
131-11-3	Dimethyl phthalate	ND	170	36.	U
56-55-3	Benzo(a)anthracene	110	100	19.	
50-32-8	Benzo(a)pyrene	100	140	42.	J
205-99-2	Benzo(b)fluoranthene	130	100	29.	
207-08-9	Benzo(k)fluoranthene	39	100	27.	J
218-01-9	Chrysene	92	100	18.	J
208-96-8	Acenaphthylene	ND	140	26.	U
120-12-7	Anthracene	ND	100	33.	U
191-24-2	Benzo(ghi)perylene	83	140	20.	J
86-73-7	Fluorene	ND	170	17.	U
85-01-8	Phenanthrene	96	100	21.	J
53-70-3	Dibenzo(a,h)anthracene	ND	100	20.	U
193-39-5	Indeno(1,2,3-cd)pyrene	70	140	24.	J
129-00-0	Pyrene	170	100	17.	
92-52-4	Biphenyl	ND	390	22.	U

Not Reportable

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Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14RE	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/23/22 10:03
Sample Matrix	: SOIL	Date Extracted	: 03/22/22
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 10848-14	Analyst	: IM
Sample Amount	: 30.85 g	Instrument ID	: MORK
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 95
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
106-47-8	4-Chloroaniline	ND	170	31.	U
88-74-4	2-Nitroaniline	ND	170	33.	U
99-09-2	3-Nitroaniline	ND	170	32.	U
100-01-6	4-Nitroaniline	ND	170	71.	U
132-64-9	Dibenzofuran	ND	170	16.	U
91-57-6	2-Methylnaphthalene	ND	200	21.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	18.	U
98-86-2	Acetophenone	ND	170	21.	U
88-06-2	2,4,6-Trichlorophenol	ND	100	32.	U
59-50-7	p-Chloro-m-cresol	ND	170	26.	U
95-57-8	2-Chlorophenol	ND	170	20.	U
120-83-2	2,4-Dichlorophenol	ND	150	28.	U
105-67-9	2,4-Dimethylphenol	ND	170	56.	U
88-75-5	2-Nitrophenol	ND	370	64.	U
100-02-7	4-Nitrophenol	ND	240	70.	U
51-28-5	2,4-Dinitrophenol	ND	820	80.	U
534-52-1	4,6-Dinitro-o-cresol	ND	440	82.	U
87-86-5	Pentachlorophenol	ND	140	38.	U
108-95-2	Phenol	ND	170	26.	U
95-48-7	2-Methylphenol	ND	170	26.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	250	27.	U
95-95-4	2,4,5-Trichlorophenol	ND	170	33.	U

Not Reportable

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Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14RE	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/23/22 10:03
Sample Matrix	: SOIL	Date Extracted	: 03/22/22
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 10848-14	Analyst	: IM
Sample Amount	: 30.85 g	Instrument ID	: MORK
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 95
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
65-85-0	Benzoic Acid	ND	560	170	U	Not Reportable
100-51-6	Benzyl Alcohol	52	170	52.	J	
86-74-8	Carbazole	ND	170	17.	U	
123-91-1	1,4-Dioxane	ND	26	7.9	U	

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Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-06	Date Collected	: 03/01/22 14:00
Client ID	: SB007 7-9	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/14/22 16:22
Sample Matrix	: SOIL	Date Extracted	: 03/12/22
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 10220314a-21	Analyst	: JAW
Sample Amount	: 15.04 g	Instrument ID	: PEST10
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: 85
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
319-86-8	Delta-BHC	ND	1.88	0.369	U	U
58-89-9	Lindane	ND	0.785	0.351	U	
319-84-6	Alpha-BHC	ND	0.785	0.223	U	
319-85-7	Beta-BHC	ND	1.88	0.714	U	
76-44-8	Heptachlor	ND	0.942	0.422	U	
309-00-2	Aldrin	ND	1.88	0.663	U	
1024-57-3	Heptachlor epoxide	ND	3.53	1.06	U	
72-20-8	Endrin	ND	0.785	0.322	U	
7421-93-4	Endrin aldehyde	ND	2.35	0.824	U	
53494-70-5	Endrin ketone	ND	1.88	0.485	U	
60-57-1	Dieldrin	ND	1.18	0.589	U	
72-55-9	4,4'-DDE	ND	1.88	0.436	U	
72-54-8	4,4'-DDD	ND	1.88	0.672	U	
50-29-3	4,4'-DDT	ND	3.53	1.52	U	
959-98-8	Endosulfan I	ND	1.88	0.445	U	
33213-65-9	Endosulfan II	ND	1.88	0.630	U	
1031-07-8	Endosulfan sulfate	ND	0.785	0.374	U	
72-43-5	Methoxychlor	ND	3.53	1.10	U	
8001-35-2	Toxaphene	ND	35.3	9.89	U	
5103-71-9	cis-Chlordane	ND	2.35	0.656	U	
5103-74-2	trans-Chlordane	ND	2.35	0.622	U	

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Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-06	Date Collected	: 03/01/22 14:00
Client ID	: SB007 7-9	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/14/22 16:22
Sample Matrix	: SOIL	Date Extracted	: 03/12/22
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 10220314a-21	Analyst	: JAW
Sample Amount	: 15.04 g	Instrument ID	: PEST10
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: 85
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
57-74-9	Chlordane	ND	15.7	6.24	U	U

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Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/14/22 23:48
Sample Matrix	: SOIL	Date Extracted	: 03/12/22
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 10220314b-19	Analyst	: JAW
Sample Amount	: 15.45 g	Instrument ID	: PEST10
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: 95
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
319-86-8	Delta-BHC	ND	1.64	0.322	U	U
58-89-9	Lindane	ND	0.685	0.306	U	
319-84-6	Alpha-BHC	ND	0.685	0.194	U	
319-85-7	Beta-BHC	ND	1.64	0.623	U	
76-44-8	Heptachlor	ND	0.822	0.368	U	
309-00-2	Aldrin	ND	1.64	0.579	U	
1024-57-3	Heptachlor epoxide	ND	3.08	0.925	U	
72-20-8	Endrin	ND	0.685	0.281	U	
7421-93-4	Endrin aldehyde	ND	2.05	0.719	U	UJ
53494-70-5	Endrin ketone	ND	1.64	0.423	U	U
60-57-1	Dieldrin	ND	1.03	0.514	U	U
72-55-9	4,4'-DDE	1.74	1.64	0.380		
959-98-8	Endosulfan I	ND	1.64	0.388	U	U
33213-65-9	Endosulfan II	ND	1.64	0.549	U	
1031-07-8	Endosulfan sulfate	ND	0.685	0.326	U	
72-43-5	Methoxychlor	ND	3.08	0.959	U	
8001-35-2	Toxaphene	ND	30.8	8.63	U	
5103-71-9	cis-Chlordane	0.726	2.05	0.572	J	J
57-74-9	Chlordane	ND	13.7	5.44	U	U

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Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/14/22 23:48
Sample Matrix	: SOIL	Date Extracted	: 03/12/22
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 10220314b-19	Analyst	: JAW
Sample Amount	: 15.45 g	Instrument ID	: PEST10
Extraction Method	: EPA 3546	GC Column	: CLPPesticidesII
Extract Volume	: 1000 uL	%Solids	: 95
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
72-54-8	4,4'-DDD	0.857	1.64	0.586	J	J
50-29-3	4,4'-DDT	8.74	3.08	1.32		
5103-74-2	trans-Chlordane	1.53	2.05	0.542	JP	J

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Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-06	Date Collected	: 03/01/22 14:00
Client ID	: SB007 7-9	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/15/22 00:04
Sample Matrix	: SOIL	Date Extracted	: 03/12/22
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: 19220314a-60	Analyst	: WR
Sample Amount	: 15.63 g	Instrument ID	: PEST19
Extraction Method	: EPA 3546	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: 85
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
12674-11-2	Aroclor 1016	ND	37.8	3.35	U
11104-28-2	Aroclor 1221	ND	37.8	3.78	U
11141-16-5	Aroclor 1232	ND	37.8	8.01	U
53469-21-9	Aroclor 1242	ND	37.8	5.09	U
12672-29-6	Aroclor 1248	ND	37.8	5.66	U
11097-69-1	Aroclor 1254	ND	37.8	4.13	U
11096-82-5	Aroclor 1260	ND	37.8	6.98	U
37324-23-5	Aroclor 1262	ND	37.8	4.80	U
11100-14-4	Aroclor 1268	ND	37.8	3.91	U
1336-36-3	PCBs, Total	ND	37.8	3.35	U

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Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/15/22 01:29
Sample Matrix	: SOIL	Date Extracted	: 03/12/22
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: 19220314a-72	Analyst	: WR
Sample Amount	: 15.46 g	Instrument ID	: PEST19
Extraction Method	: EPA 3546	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: 95
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
12674-11-2	Aroclor 1016	ND	34.2	3.04	U	U
11104-28-2	Aroclor 1221	ND	34.2	3.43	U	
11141-16-5	Aroclor 1232	ND	34.2	7.26	U	
53469-21-9	Aroclor 1242	ND	34.2	4.61	U	
12672-29-6	Aroclor 1248	ND	34.2	5.13	U	
37324-23-5	Aroclor 1262	ND	34.2	4.35	U	
11100-14-4	Aroclor 1268	ND	34.2	3.54	U	

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Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-06	Date Collected	: 03/01/22 14:00
Client ID	: SB007 7-9	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/15/22 15:54
Sample Matrix	: SOIL	Date Extracted	: 03/12/22
Analytical Method	: 1,8151A	Dilution Factor	: 1
Lab File ID	: 22220315a-24	Analyst	: AR
Sample Amount	: 30.12 g	Instrument ID	: PEST22
Extraction Method	: EPA 8151A	GC Column	: STX-CLP2
Extract Volume	: 10000 uL	%Solids	: 85
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
94-75-7	2,4-D	ND	196	12.3	U	U
93-76-5	2,4,5-T	ND	196	6.08	U	↓
93-72-1	2,4,5-TP (Silvex)	ND	196	5.21	U	↓

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Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/15/22 18:23
Sample Matrix	: SOIL	Date Extracted	: 03/12/22
Analytical Method	: 1,8151A	Dilution Factor	: 1
Lab File ID	: 22220315a-32	Analyst	: AR
Sample Amount	: 30.65 g	Instrument ID	: PEST22
Extraction Method	: EPA 8151A	GC Column	: STX-CLP1
Extract Volume	: 10000 uL	%Solids	: 95
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
94-75-7	2,4-D	ND	173	10.9	U	U
93-76-5	2,4,5-T	ND	173	5.35	U	↓
93-72-1	2,4,5-TP (Silvex)	ND	173	4.59	U	↓

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Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-06	Date Collected	: 03/01/22 14:00
Client ID	: SB007 7-9	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/18/22 19:27
Sample Matrix	: SOIL	Date Extracted	: 03/04/22
Analytical Method	: 134,LCMSMS-ID	Dilution Factor	: 1
Lab File ID	: I16462	Analyst	: RS
Sample Amount	: 4.42 g	Instrument ID	: LCMS01
Extraction Method	: ALPHA 23528	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: 85
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/g				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	0.534	0.024	U	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	0.534	0.049	U	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	0.267	0.042	U	
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	0.534	0.056	U	
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	0.267	0.048	U	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	0.267	0.065	U	
335-67-1	Perfluorooctanoic Acid (PFOA)	0.463	0.267	0.045		
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	0.534	0.192	U	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	0.534	0.146	U	
375-95-1	Perfluorononanoic Acid (PFNA)	ND	0.267	0.080	U	
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	0.267	0.139	U	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	0.267	0.072	U	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	0.534	0.307	U	
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	0.534	0.215	U	UJ
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	0.534	0.050	U	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	0.534	0.163	U	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	0.534	0.090	U	UJ
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	0.534	0.075	U	U

KK 7/14/22

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-06	Date Collected	: 03/01/22 14:00
Client ID	: SB007 7-9	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/18/22 19:27
Sample Matrix	: SOIL	Date Extracted	: 03/04/22
Analytical Method	: 134,LCMSMS-ID	Dilution Factor	: 1
Lab File ID	: I16462	Analyst	: RS
Sample Amount	: 4.42 g	Instrument ID	: LCMS01
Extraction Method	: ALPHA 23528	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: 85
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/g				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	0.534	0.218	U	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	0.534	0.058	U	U
NONE	PFOA/PFOS, Total	0.463	0.267	0.045		

KK 7/14/22

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-06	Date Collected	: 03/01/22 14:00
Client ID	: SB007 7-9	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/19/22 17:19
Sample Matrix	: SOIL	Date Extracted	: 03/04/22
Analytical Method	: 134,LCMSMS-ID	Dilution Factor	: 1
Lab File ID	: M06257	Analyst	: SG
Sample Amount	: 4.42 g	Instrument ID	: LCMS01
Extraction Method	: ALPHA 23528	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: 85
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/g				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	0.534	0.105	U	U

KK 7/14/22

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/18/22 22:29
Sample Matrix	: SOIL	Date Extracted	: 03/04/22
Analytical Method	: 134,LCMSMS-ID	Dilution Factor	: 1
Lab File ID	: I16473	Analyst	: RS
Sample Amount	: 4.37 g	Instrument ID	: LCMS01
Extraction Method	: ALPHA 23528	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: 95
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ng/g Results	RL	MDL	Qualifier	
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	0.484	0.022	U	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	0.484	0.045	U	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	0.242	0.038	U	
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	0.484	0.051	U	
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	0.242	0.044	U	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	0.242	0.059	U	
335-67-1	Perfluorooctanoic Acid (PFOA)	0.424	0.242	0.041		
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	0.484	0.174	U	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	0.484	0.132	U	
375-95-1	Perfluorononanoic Acid (PFNA)	ND	0.242	0.073	U	
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	0.555	0.242	0.126		
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	0.242	0.065	U	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	0.484	0.278	U	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	0.484	0.195	U	UJ
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	0.484	0.045	U	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	0.484	0.148	U	
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	0.484	0.095	U	
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	0.484	0.082	U	UJ

KK 7/14/22

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/18/22 22:29
Sample Matrix	: SOIL	Date Extracted	: 03/04/22
Analytical Method	: 134,LCMSMS-ID	Dilution Factor	: 1
Lab File ID	: I16473	Analyst	: RS
Sample Amount	: 4.37 g	Instrument ID	: LCMS01
Extraction Method	: ALPHA 23528	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: 95
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/g				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	0.484	0.068	U	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	0.484	0.198	U	↓
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	0.484	0.052	U	↓
NONE	PFOA/PFOS, Total	0.979	0.242	0.041		

KK 7/14/22

LDC #: 54136A1a
SDG #: L2210848
Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET
Category B

Date: 6/13/22
Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS Volatiles (EPA SW-846 Method 8260C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / Δ	
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration/ICV	A / SW	%RSD ≤ 20, r² ICV ≤ 30
IV.	Continuing calibration	SW	CCV ≤ 20
V.	Laboratory Blanks	Δ	
VI.	Field blanks	ND	TB= Trip Blank EB= EQUIPMENT Blank
VII.	Surrogate spikes	Δ	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	SW	LCS/D
X.	Field duplicates	N	
XI.	Internal standards	Δ	
XII.	Target analyte quantitation	Δ	Result <RL >MDL = Jdet
XIII.	Target analyte identification	Δ	
XIV.	System performance	Δ	
XV.	Overall assessment of data	Δ	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SB007 7-9	L2210848-06	Soil	03/01/22
2	SB001 0-2	L2210848-14	Soil	03/01/22
3				
4				
5				
6				
7				
8				
9				

Notes:

1	WG1614355- 5Blank						
2	WG1615440- 5Blank						

LDC #: 94136A1a **VALIDATION FINDINGS CHECKLIST** Page: 1 of 2
Reviewer: FT

Method: Volatiles (EPA SW 846 Method 8260 C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%, 15/30% and relative response factors (RRF) within method criteria?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of > 0.990?	✓			
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20% 30%?		✓		
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 20% and relative response factors (RRF) within method criteria?		✓		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation findings worksheet.		✓		
VI. Field blanks				
Were field blanks were identified in this SDG?	✓			
Were target analytes detected in the field blanks?		✓		
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	

Validation Area	Yes	No	NA	Findings/Comments
IX. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XI. Internal standards				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XII. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?	✓			
Were target analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Target analyte identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did analyte spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO.1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methyl cyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

LDC #: 54136A1a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was an initial calibration verification standard analyzed after each ICAL for each instrument?

Y N N/A Were all %D within the validation criteria of ≤20 %D?

#	Date	Standard ID	Compound	Finding %D (Limit: <20.0% / 30%)	Associated Samples	Qualifications
	2/3/22	ICV-VOA111	JJ	78.2	All	J/UJ/A All ND
	12/17		A	33.0		
			V	37.6		
			B	38.8		
			F	30.8		

LDC #: SY136A1a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 Q

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y N N/A Were all %D and RRFs within the validation criteria of ≤20 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤20.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	3/10/22	CCV - VOA 111	C	24.1		2, WG1614355-5Blank	K J/UJ/A ND+Det
	0808		D	29.9			
			F	24.4			
			M	20.9			
			HHHH	38.2			
			AA	23.6			
	3/11/22	CCV-VOA111	C	24.8		1, WG1615440-5 Blank	J/UJ/A all ND
	0707		D	29.3			
			HH	20.2			
			AA	22.3			

LDC #: 54136A1a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

~~Y~~ N N/A Was a LCS required?

Y (N) N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

#	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	WG1614355-	HHHH	138 (65-136)	( )	( )	2, WG1614355-5Blank	Jdet /P ND
	LCSD	HHHH	( )	( )	46 (30)	↓	↓
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 54136A1a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 C)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the target analytes identified below using the following calculations:

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of target analyte
C_x = Concentration of target analyte
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Reported RRF ug/L (40 std)	Recalculated RRF ug/L (40 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL VOA 111	2/2/22	QQQ	0.253	0.253	0.245	0.245	9.89	9.89
			EE	1.480	1.480	1.463	1.463	9.52	9.52
			BB	0.698	0.698	0.671	0.671	8.11	8.11
2									
3									
4									

Comments: _____

LDC #: 54136A/a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where:
ave. RRF = initial calibration average RRF
A_x = Area of target analyte
C_x = Concentration of target analyte
RRF = continuing calibration RRF
A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV VOA 111 #2 -14	3/10/22 0808	QQQ	0.245	0.234	0.234	4.5	4.5
			EE	1.463	1.347	1.347	7.91	7.9
			BB	0.671	0.622	0.622	7.3	7.3
2	CCV VOA 111 #1 -06	3/11/22 0707	QQQ	0.245	0.226	0.226	7.8	7.8
			EE	1.463	1.370	1.370	6.4	6.4
			BB	0.671	0.580	0.580	13.6	13.6
3								
4								

LDC #: 54136A1a

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 (3)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 2

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane	20.0	19.998	100	100	0
1,2-Dichloroethane-d4	↓	19.475	97	97	
Toluene-d8		19.598	98	98	↓
Bromofluorobenzene		19.736	99 ~~99~~ ~~92~~ FT	99	

Comments: _____

LDC #: 54136A1a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 CL

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the target analytes identified below using the following calculation:

% Recovery = 100 * SSC/SA

RPD = I LCSC - LCSDC I * 2/(LCSC + LCSDC)

Where: SSC = Spiked sample concentration
SA = Spike added
LCSC = Laboratory control sample concentration
LCSDC = Laboratory control sample duplicate concentration

LCS ID: WG161435-3/4

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
1,1-Dichloroethene	40	40	42.871	41.966	107	107	105	105	2	2
Trichloroethene			39.063	39.108	98	98	98	98	0	0
Benzene			36.908	36.649	92	92	92	92	0	1
Toluene			37.771	37.157	94	94	93	93	1	2
Chlorobenzene	↓	↓	38.874	38.682	97	97	97	97	0	0

Comments: _____

LDC #: 54136A1a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 Q)

The concentration of the sample was calculated for the target analytes identified below using the following calculation:

$$\text{Concentration} = \frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the target analyte to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

5/5.4 %S = 85

Example:

Sample I.D. #1, EE

$$\text{Conc.} = \frac{83071\ (20.0)\ (5)\ (5.81)}{(105\ 816)(1.463)(5.4)(0.1)(0.85)}$$

$$= 679.23 \text{ ug/kg}$$

#	Sample ID	Compound	Reported Concentration (ug/Kg)	Calculated Concentration (ng/Kg)	Qualification
	#1	EE	680	679.23	-

LDC #: 54136A2a

SDG #: L2210848

Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET

Category B

Date: 6/13/22

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC/MS Semivolatiles (EPA SW-846 Method 8270D)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / SW	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/A	%RSD ≤ 20, r² ICV ≤ 30
IV.	Continuing calibration	SW	CCV ≤ 20
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	EB = EQUIPMENT BLANK
VII.	Surrogate spikes	SW	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	SW	LCS ID
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Target analyte quantitation	A	Results < RL > MDL = J det / A
XIII.	Target analyte identification	A	
XIV.	System performance	A	
XV.	Overall assessment of data	SW	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID		Lab ID	Matrix	Date
1 +1	SB007 7-9	SX	L2210848-06	Soil	03/01/22
2 +1	SB001 0-2		L2210848-14	Soil	03/01/22
3 +2	SB001 0-2RE		L2210848-14RE	Soil	03/01/22
4					
5					
6					
7					
8					
9					

Notes:

1	WG1644960-1 Blank	2					
2	WG1618532-1 Blank						

LDC #: 94136A2a

VALIDATION FINDINGS CHECKLIST

Reviewer: FT

Method: Semivolatiles (EPA SW 846 Method 8270 D)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20% (15/30% and relative response factors (RRF) within method criteria?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20% (30%)?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 20% and relative response factors (RRF) within method criteria?		✓		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the blanks validation findings worksheet.		✓		
VI. Field blanks				
Were field blanks were identified in this SDG?	✓			
Were target analytes detected in the field blanks?		✓		
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?		✓		
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?	✓			
If any percent recoveries (%R) was less than 10%, was a reanalysis performed to confirm %R ?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	

Validation Area	Yes	No	NA	Findings/Comments
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
IX. Laboratory control samples				
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XI. Internal standards				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XII. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Target analyte identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

A. Phenol	CC. Dimethylphthalate	EEE. Bis(2-ethylhexyl)phthalate	GGGG. C30-Hopane	I1. Methyl methanesulfonate
B. Bis (2-chloroethyl) ether	DD. Acenaphthylene	FFF. Di-n-octylphthalate	HHHH. 1-Methylphenanthrene	J1. Ethyl methanesulfonate
C. 2-Chlorophenol	EE. 2,6-Dinitrotoluene	GGG. Benzo(b)fluoranthene	IIII. 1,4-Dioxane	K1. o,o',o"-Triethylphosphorothioate
D. 1,3-Dichlorobenzene	FF. 3-Nitroaniline	HHH. Benzo(k)fluoranthene	JJJJ. Acetophenone	L1. n-Phenylene diamine
E. 1,4-Dichlorobenzene	GG. Acenaphthene	III. Benzo(a)pyrene	KKKK. Atrazine	M1. 1,4-Naphthoquinone
F. 1,2-Dichlorobenzene	HH. 2,4-Dinitrophenol	JJJ. Indeno(1,2,3-cd)pyrene	LLLL. Benzaldehyde	N1. N-Nitro-o-toluidine
G. 2-Methylphenol	II. 4-Nitrophenol	KKK. Dibenz(a,h)anthracene	MMMM. Caprolactam	O1. 1,3,5-Trinitrobenzene
H. 2,2'-Oxybis(1-chloropropane)	JJ. Dibenzofuran	LLL. Benzo(g,h,i)perylene	NNNN. 2,6-Dichlorophenol	P1. Pentachlorobenzene
I. 4-Methylphenol	KK. 2,4-Dinitrotoluene	MMM. Bis(2-Chloroisopropyl)ether	OOOO. 1,2-Diphenylhydrazine	Q1. 4-Aminobiphenyl
J. N-Nitroso-di-n-propylamine	LL. Diethylphthalate	NNN. Aniline	PPPP. 3-Methylphenol	R1. 2-Naphthylamine
K. Hexachloroethane	MM. 4-Chlorophenyl-phenyl ether	OOO. N-Nitrosodimethylamine	QQQQ. 3&4-Methylphenol	S1. Triphenylene
L. Nitrobenzene	NN. Fluorene	PPP. Benzoic Acid	RRRR. 4-Dimethyldibenzothiophene (4MDT)	T1. Octachlorostyrene
M. Isophorone	OO. 4-Nitroaniline	QQQ. Benzyl alcohol	SSSS. 2/3-Dimethyldibenzothiophene (4MDT)	U1. Famphur
N. 2-Nitrophenol	PP. 4,6-Dinitro-2-methylphenol	RRR. Pyridine	TTTT. 1-Methyldibenzothiophene (1MDT)	V1. 1,4-phenylenediamine
O. 2,4-Dimethylphenol	QQ. N-Nitrosodiphenylamine	SSS. Benzidine	UUUU.. 2,3,4,6-Tetrachlorophenol	W1. Methapyrilene
P. Bis(2-chloroethoxy)methane	RR. 4-Bromophenyl-phenylether	TTT. 1-Methylnaphthalene	VVVV. 1,2,4,5-Tetrachlorobenzene	X1. Pentachloroethane
Q. 2,4-Dichlorophenol	SS. Hexachlorobenzene	UUU.Benzo(b)thiophene	WWWW.. 2-Picoline	Y1. 3,3'-Dimethylbenzidine
R. 1,2,4-Trichlorobenzene	TT. Pentachlorophenol	VVV.Benzonaphthothiophene	XXXX. 3-Methylcholanthrene	Z1. o-Toluidine
S. Naphthalene	UU. Phenanthrene	WWW.Benzo(e)pyrene	YYYY. a,a-Dimethylphenethylamine	A2. 1-Naphthylamine
T. 4-Chloroaniline	VV. Anthracene	XXX. 2,6-Dimethylnaphthalene	ZZZZ. Hexachloropropene	B2. 4-Aminobiphenyl
U. Hexachlorobutadiene	WW. Carbazole	YYY. 2,3,5-Trimethylnaphthalene	A1. N-Nitrosodiethylamine	C2. 4-Nitroquinoline-1-oxide
V. 4-Chloro-3-methylphenol	XX. Di-n-butylphthalate	ZZZ. Perylene	B1. N-Nitrosodi-n-butylamine	D2. Hexachloropene
W. 2-Methylnaphthalene	YY. Fluoranthene	AAAA. Dibenzothiophene	C1. N-Nitrosomethylethylamine	E2. Bis (2-chloro-1-methylethyl) ether
X. Hexachlorocyclopentadiene	ZZ. Pyrene	BBBB. Benzo(a)fluoranthene	D1. N-Nitrosomorpholine	F2. Bifenthrin
Y. 2,4,6-Trichlorophenol	AAA. Butylbenzylphthalate	CCCC. Benzo(b)fluorene	E1. N-Nitrosopyrrolidine	G2. Cyfluthrin
Z. 2,4,5-Trichlorophenol	BBB. 3,3'-Dichlorobenzidine	DDDD. cis/trans-Decalin	F1. Phenacetin	H2. Cypermethrin
AA. 2-Chloronaphthalene	CCC. Benzo(a)anthracene	EEEE. 1,1'-Biphenyl	G1. 2-Acetylaminofluorene	I2. Permethrin (cis/trans)
BB. 2-Nitroaniline	DDD. Chrysene	FFFF. Retene	H1. Pronamide	J2. 5-Nitro-o-toluidine

J3 p-chloro-m-cresol

J4 4,6-Dinitro-O-cresol

LDC #: 54136A2a

VALIDATION FINDINGS WORKSHEET
Technical Holding Times

Reviewer: FT

All circled dates have exceeded the technical holding times.
Y N N/A Were all cooler temperatures within validation criteria?

METHOD : GC/MA BNA SW846 METHOD 8270

Sample ID	Matrix	Preserved	Sampling Date	Extraction date	Analysis date	Total # of Days	Qualifier
3	SOIL		3/1/22	3/22/22	3/23/22	21	J/UJ/A
							ND+Det

TECHNICAL HOLDING TIME CRITERIA

Water: Extracted within 7 days, analyzed within 40 days.
Soil: Extracted within 14 days, analyzed within 40 days.

LDC #: 54136A2q

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: FT

METHOD: GC/MS SVOA(EPA Method 8270 D)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours of sample analysis for each instrument?
Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y N N/A Were all %D and RRFs within the validation criteria of ≤20 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: <20.0%)	Finding RRF (Limit: >0.05)	Associated Samples	Qualifications
	3/16/22	ccv- Juliet	X	36.8		2, WG1614960-1Blank	J/UJ/Δ (ND)
	2104		II	24.0		↓	↓
	3/16/22	ccv- Juliet	IIIT	28.4		↓	J/UJ/Δ (ND)
	0953						
	3/18/22	ccv - Juliet	II	24.0		#1	J/UJ/Δ (ND)
	0740		X	35.1		↓	
	3/18/22	ccv - Juliet	IIII	32.1		#1	J/UJ/Δ (ND)
	0828						
	3/23/22	ccv - Mark	MMM	31.3		3	J/UJ/Δ (ND)
	1210						

LDC #: 5413CA2a

VALIDATION FINDINDS WORKSHEET
Surrogate Recovery

Page: 1 of 1
Reviewer: FT

METHOD: ✓ GC __ HPLC

Are surrogates required by the method? Yes____ or No____.

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were surrogates spiked into all samples and blanks?

Y N N/A Did all surrogate recoveries (%R) meet the QC limits?

#	Sample ID	Detector/ Column	Surrogate Compound	%R (Limits)	Qualifications
	1	surrogate outside	limit	( )	no qual >5X DL
	2	2-Fluorophenol	3	(25-120)	J/R/A all Acids
		2,4,6-Tribromophenol	2	(10-136)	↓ all ND
	3	2-Fluorophenol	0	(25-120)	J/R/A all Acids
		2,4,6-Tribromophenol	2	(10-136)	↓
		Phenol-D6	4	(10-120)	All ND
				( )	per list for Acid compounds

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 54136A2a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a LCS required?

Y N N/A Were the LCS/LCSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	WG616496O -2/3 lcsID	X	36 (40-140)	31 (40-140)	( )	1,2, WG616496O-1Blank	J/UJ/P (ND)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
	WG616B532- 2/3 lcsID	W p-chloro-m-cresol A PPP	( )	64 ~~(40-142)~~	64 (50)	3, WG616B532-1Blank	J/UJ/P (ND)
			( )	121 (26-103)	( )		
			( )	101 (26-90)	( )		
			( )	113 (10-110)	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 54136420

VALIDATION FINDINGS WORKSHEET
Overall Assessment of Data

Reviewer: FT
2nd Reviewer: _____

METHOD: GC/MS BNA (EPA SW 846 Method 8270D)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

(Y)N N/A Was the overall quality and usability of the data acceptable?

#	Sample ID	Compound	Finding	Qualifications
	3	All	extracted outside H.T.	R/A

Comments: _____

LDC #: 54136 A2a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the target analytes identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of target analyte
C_x = Concentration of target analyte
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

#	Standard ID	Calibration Date	Target Analyte Internal Standard)		Reported RRF (20 std)	Recalculated RRF (20 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL Juliet	1/25/22	A	(1st IS)	1.345	1.345	1.383	1.383	5.59	5.59
			S	(2nd IS)	0.990	0.990	0.982	0.982	4.86	4.86
			GG	(3rd IS)	1.095	1.095	1.109	1.109	8.08	8.08
			UU	(4th IS)	1.068	1.068	1.026	1.026	6.44	6.44
			DDD	(5th IS)	1.126	1.126	1.125	1.125	7.39	7.39
			JJJ	(6th IS)	1.059	1.059	1.046	1.046	3.66	3.66
2	ICAL MORK	1/28/22	A	(1st IS)	1.623	1.623	1.603	1.603	4.21	4.21
			S	(2nd IS)	1.018	1.018	1.018	1.018	3.86	3.86
			GG	(3rd IS)	1.048	1.048	1.057	1.057	4.01	4.01
			UU	(4th IS)	1.049	1.049	1.063	1.063	5.02	5.02
			DDD	(5th IS)	1.108	1.108	1.136	1.136	8.17	8.17
			JJJ	(6th IS)	0.998	0.998	1.010	1.010	11.48	11.48
3				(1st IS)						
				(2nd IS)						
				(3rd IS)						
				(4th IS)						
				(5th IS)						
				(6th IS)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136 A2a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)
The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF; RRF = continuing calibration RRF
A_x = Area of target analyte; A_{is} = Area of associated internal standard
C_x = Concentration of target analyte; C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV Mark Juliet P5970	3/16/22 2104	A (1st IS)	1.383	1.419	1.419	2.6	2.6
			S (2nd IS)	0.982	0.881	0.881	10.3	10.3
			GG (3rd IS)	1.109	0.957	0.957	13.7	13.7
			UU (4th IS)	1.026	0.919	0.919	10.4	10.4
			DDD (5th IS)	1.125	0.986	0.986	12.4	12.4
			JJJ (6th IS)	1.046	1.060	1.060	1.3	1.3
2	CCV Mark Juliet 6207	3/18/22 0740	A (1st IS)	~~1.603~~ 1.383	1.385	1.385	0.1	0.1
			S (2nd IS)	1.018 0.982	0.915	0.915	6.8	6.8
			GG (3rd IS)	1.057 1.109	0.958	0.958	13.6	13.6
			UU (4th IS)	1063 1.026	0.918	0.918	10.5	10.5
			DDD (5th IS)	1.136 1.125	1.024	1.024	9.0	9.0
			JJJ (6th IS)	1.0 1.046	0.973	0.973	7.0	7.0
3	CCV Mark	3/23/22	A (1st IS)	1.603	1.430	1.430	10.8	~~10.8~~ 10.8
			S (2nd IS)	1.018	0.949	0.949	6.8	6.8
			GG (3rd IS)	1.057	0.968	0.968	8.4	8.4
			UU (4th IS)	1.063	0.984	0.984	7.4	7.4
			DDD (5th IS)	1.136	1.011	1.011	11.0	11.0
			JJJ (6th IS)	1.010	1.047	1.047	3.7	3.7

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136A2a

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270D)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 1 5X

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	25.0	4.759	95	95	0
2-Fluorobiphenyl	↓	3.326	67	67	↓
Terphenyl-d14	↓	3.1	62	62	↓
Phenol-d5	50.0	6.794	68	68	↓
2-Fluorophenol	↓	6.762	68	68	↓
2,4,6-Tribromophenol	↓	7.864	79	79	↓

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					

LDC #: 51136A2a

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

$$SSC = \frac{(A_X)(C_{IS})(Fv)(Df)}{(A_{IS})(RRF)(Vs \text{ or } Ws)(\%S/100)}$$

%Recovery = (SSC/SA)*100

RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where: A_X= Area of the target analyte
A_{IS}= Area for the specific internal standard
C_{IS} = Concentration of internal standard
Fv =Final volume of extract
Df= Dilution factor
RRF= Average relative response factor of the target analyte
Ws= Initial weight of the sample
%S= Percent Solid
SSC = Spiked sample concentration
LCS = Laboratory control sample
LCSD = Laboratory control sample duplicate
Vs= Initial volume of the sample

LCS/LCSD samples: WG161496O-2/3

Compound	Spike Added (ug/ml)		Spike Concentration (ug/ml)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol	40	40	31.550	27.045	79	79	68	68	15	15
N-Nitroso-di-n-propylamine			25.754	23.462	64	64	59	59	8	9
4-Chloro-3-methylphenol			30.247	27.204	76	76	68	68	11	11
Acenaphthene			27.534	25.194	69	69	63	63	9	9
Pentachlorophenol			30.311	27.444	76	76	69	69	10	10
Pyrene			29.743	26.476	74	74	66	66	11	12

LDC #: 54136A2a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

$$\text{Concentration} = \frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the target analyte to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

V_i = Volume of extract injected in microliters (ul)

V_t = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. #1, GG

$$\text{Conc.} = \frac{(123812)(40)(1)(5)(1000)}{(494995)(1.109)(30.78)(0.85)}$$

$$= 1724.14 \text{ ug/kg}$$

%S = 85

1/30.78 SX

#	Sample ID	Target Analyte	Reported Concentration (ug/kg)	Calculated Concentration (ug/kg)	Qualification
	#1	GG	1700	1724.14	

LDC #: 54136A3a

SDG #: L2210848

Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET

Category B

Date: 6/13/22

Page: 1 of 1

Reviewer: EF

2nd Reviewer: KK

METHOD: GC Organochlorine Pesticides (EPA SW-846 Method 8081B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	GC Instrument Performance Check	A	
III.	Initial calibration/ICV	A/A	%D RSD ≤ 20 ICV ≤ 20
IV.	Continuing calibration	SW	CCV ≤ 20
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	EB = EQUIPMENT BLANK
VII.	Surrogate spikes /13	A/A	
VIII.	Matrix spike/Matrix spike duplicates	N	CS
IX.	Laboratory control samples	A	LCS ID
X.	Field duplicates	N	
XI.	Target analyte quantitation	A	Results < RL ≥ MDL = Jdet
XII.	Target analyte identification	A	
XIII.	System Performance	A	
XIV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SB007 7-9	L2210848-06	Soil	03/01/22
2	SB001 0-2	L2210848-14	Soil	03/01/22
3				
4				
5				
6				
7				
8				
9				
10				

Notes:

	WG1616498						

LDC #: 54136A3a **VALIDATION FINDINGS CHECKLIST** Page: 1 of 2
Reviewer: FT

Method: Pesticides (EPA SW 846 Method 8081B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/ECD Instrument performance check				
Was the instrument performance found to be acceptable?	✓			
Were Evaluation mix standards analyzed prior to the initial calibration and at beginning of each 12-hour shift?	✓			
Were endrin and 4,4'-DDT breakdowns ≤ 15% for individual breakdown in the Evaluation mix standards?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
Were the RT windows properly established?	✓			
IIIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%?		✓		
Were all the retention times within the acceptance windows?	✓			
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
VI. Field blanks				
Were field blanks identified in this SDG?	✓			
Were target compounds detected in the field blanks?		✓		

Validation Area	Yes	No	NA	Findings/Comments
VII. ***Surrogate spikes/Internal Standards***				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any percent recovery (%R) was less than 10 percent, was a reanalysis performed to confirm %R?	✓			
Were internal standard area counts within ± 50% of the average area calculated during calibration?	✓			
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?		✓		
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
IX. Laboratory control samples				
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target compounds detected in the field duplicates?			✓	
XI. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions, dry weight factors, and clean-up activities applicable to level IV validation?	✓			
Were relative percent difference (RPD) of the results between two columns ≤ 40%?		✓		
XII. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:_____

LDC #: 54136A3a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Reviewer: FT

METHOD: ✓ **GC** __ **HPLC**

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
What type of continuing calibration calculation was performed? __%D or __%R
Y N N/A Were continuing calibration standards analyzed at the required frequencies?
Y N N/A Did the continuing calibration standards meet the %D / %R validation criteria of ≤20.0% / 80-120%?
Level IV Only
Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Detector/ Column	Compound	%D (Limit ≤ 20.0)	RT (limit)	Associated Samples	Qualifications
	3/14/22 0811	CCV-Pest/10	UP1	R	20.4		2	J/UJ/A MD

LDC #: 54136A3a

VALIDATION FINDINGS WORKSHEET
Target Analyte Quantitation

Reviewer: _____

METHOD: GC/ GC/MS (EPA SW 846 Method 8081B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?

Y N N/A Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?

#	Sample ID	Compound	Finding (% RPD Between 2 columns (≤40))	Qualifications
	#2	trans-chlordane	60	J det /A

Comments: See sample calculation verification worksheet for recalculations

LDC #: 54136 A3a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC _____ HPLC _____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors 017

#	Standard ID	Calibration Date	Compound	Reported CF (5.0 std)	Recalculated CF (5.0 std)	Reported CF (initial)	Recalculated CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL PEST10	9/13/21	gamma BHC cal1	1.558	1.558	1.580	1.580	6.07	6.07
			4,4'-DDT cal1	1.322	1.322	1.271	1.271	8.6	8.6
			cal2	1.547	1.547	1.602	1.602	7.99	7.99
			↓ ↓	1.068	1.068	1.045	1.045	9.14	9.14
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136 A39

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF -CF)/ave.CF

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ICAL)/ CCV Conc.	Reported CF/ Conc. CCV	Recalculated CF/ Conc. CCV	Reported %D	Recalculated %D
1	CCV Pest 10	3/14/22 2011	gamma BHC (1)	1.580	1.472	1.472	6.8	6.8
			4,4-DDT	1.271	1.210	1.210	4.8	4.8
			(2)	1.602	1.476	1.476	7.9	7.9
			↓	1.045	1.036	1.036	0.9	0.9
2	CCV Pest 10	3/14/22 0901	↓	↓	1.538	1.538	2.7	2.7
			↓		1.337	1.337	5.2	5.2
			↓		1.541	1.541	3.8	3.8
			↓	↓	1.16	1.16	11.0	11.0
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: SY13GA32

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX	CLP1	50.0	25.905	52	52	
↓	2		29.658	59	59	
DCB	CLP1		29.090	58	58	
↓	2	↓	39.928	80	80	↓

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: SY1361B2a

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: ✓ GC ___HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC/SA)
RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where SSC = Spiked sample concentration; LCS = Laboratory Control Sample; SA = Spike added; LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: WG161498I-2/3

Compound	Spike Added (ug/Kg)		Spike Sample Concentration (ug/Kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
gamma BHC	32.4	31.3	24.4	21.1	75	75	67	67	11	11
4,4'-DDT	↓	↓	24.7	21.9	76	76	70	70	8	8

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136 A3a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: V **GC** __ **HPLC**

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. #2 Compound Name 4,4'-DDT

Concentration = $\frac{(38811573)(25.0)(10)}{(72803984)(1.277)(15.45)(0.95)}$ = $\frac{}{1.045}$ = 8.7 ug/kg

1/15.45 %S=95 cup2 3/14/22 2348

#	Sample ID	Compound	Reported Concentrations (ug/kg)	Recalculated Results Concentrations (ug/kg)	Qualifications
	#2	4,4'-DDT	8.74	8.7	

Comments:

LDC #: 54136A3b
SDG #: L2210848
Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET
Category B

Date: 6/13/22
Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: KR

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	Initial calibration/ICV	A/A	%RSD/ICV ≤20
III.	Continuing calibration	A	CCV ≤20
IV.	Laboratory Blanks	A	
V.	Field blanks	ND	EB = EQUIPMENT BLANK
VI.	Surrogate spikes	A/A	
VII.	Matrix spike/Matrix spike duplicates	A	L2210848-01 MS/MSD, L2210848-09 MS/MSD
VIII.	Laboratory control samples	A	LCS/LCSD
IX.	Field duplicates	N	
X.	Target analyte quantitation	A	Results < RL > MDL = J/UJ
XI.	Target analyte identification	A	
XII.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SB007 7-9	L2210848-06	Soil	03/01/22
2	SB001 0-2	L2210848-14	Soil	03/01/22
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

Notes:

	WG1614972-1						

LDC #: 54136A3b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT

Method: ✓ GC __ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?			✓	
Were the RT windows properly established?	✓			
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
III. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
Were all the retention times within the acceptance windows?	✓			
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
V. Field Blanks				
Were field blanks identified in this SDG?	✓			
Were target analytes detected in the field blanks?		✓		
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VIII. Laboratory control samples				
Was an LCS analyzed per analytical or extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			

Validation Area	Yes	No	NA	Findings/Comments
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
X. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target analyte identification				
Were the retention times of reported detects within the RT windows?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?			✓	
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:_____

LDC #: 54136A3b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC ✓ HPLC ____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (1000 std)	Recalculated CF (1000 std)	Reported CF (initial)	Recalculated CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL PEST19	12/3/21	PCB 126-1 GP1	0.058	0.058	0.059	0.059	5.64	5.64
			GP2	0.058	0.058	0.057	0.057	5.78	5.78
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 9413GA3b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. CF -CF)/ave.CF

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of target analyte
C = Concentration of target analyte

#	Standard ID	Calibration Date	Target Analyte	Average CF(Ical)/ CCV Conc.	Reported CF/ Conc. CCV	Recalculated CF/ Conc. CCV	Reported %D	Recalculated %D
1	CCV Post 19	3/14/23 1753	1260-1 aP1	0.059	0.048	0.048	18.6	18.6
			1260-1 aP2	0.057	0.052	0.052	12.3	12.3
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 9136A3b

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
TCMX 1	cap1	500.0	344.028	69	69	0
TCMX 2	2	↓	371.788	74	74	↓
PCB 1	cap1	↓	341.775	68	68	↓
DCB 2	2	↓	417.568	84	84	↓

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C`	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 9413GA3h

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

%Recovery = 100 * (SSC/SA)
RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where SSC = Spiked sample concentration
LCS = Laboratory Control Sample
SA = Spike added
LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: WG1614972-2/3

Compound	Spike Added (ug/kg)		Spike Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Aroclor 1260	207	204	136	92.3	66	66	45	45	38	38

Comments: _____

LDC #: 54136A3b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the target analyte to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the target analyte In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. #14 : Aroclor 1260

Concentration = 118.645 (1) / (15.46)(0.95) =

%S = 95

1000 uL / 1.26 CLP2

= 8.078 ug/kg

#	Sample ID	Target analyte	Reported Concentrations (ug/kg)	Recalculated Results Concentrations (ug/kg)	Qualifications
	14	Aroclor 1260	8.12	8.078	
	1260-3 = 1759359 (250.0) / 65071107 (0.0596)		= 114.248	1260-3 =	114.248
				4 =	139.971
				5 =	101.715
					118.645

Comments: _____

LDC #: 54136A5
SDG #: L2210848
Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET
Category B

Date: 6/13/22
Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Herbicides (EPA SW-846 Method 8151A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	Initial calibration/ICV	A/A	%D/RSD/ICV ≤ 20
III.	Continuing calibration	A	CCV ≤ 20
IV.	Laboratory Blanks	A	
V.	Field blanks	N	
VI.	Surrogate spikes /13	A/A	
VII.	Matrix spike/Matrix spike duplicates	N	L2210848-01 MS/D L2210848-09 MS/D
VIII.	Laboratory control samples	A	LCS/D
IX.	Field duplicates	N	
X.	Target analyte quantitation	A	ND Result < RL > MDL
XI.	Target analyte identification	A	
XII.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SB007 7-9	L2210848-06	Soil	03/01/22
2	SB001 0-2	L2210848-14	Soil	03/01/22
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				

Notes:

	WG1614866-1						

2,4-D, 2,4,5-T, 2,4,5-TP

LDC #: 94136A5

VALIDATION FINDINGS CHECKLIST

Reviewer: FT

Method: ✓GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?			✓	
Were the RT windows properly established?	✓			
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
III. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
Were all the retention times within the acceptance windows?	✓			
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
V. Field Blanks				
Were field blanks identified in this SDG?		✓		
Were target analytes detected in the field blanks?			✓	
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VIII. Laboratory control samples				
Was an LCS analyzed per analytical or extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			

Validation Area	Yes	No	NA	Findings/Comments
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
X. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target analyte identification				
Were the retention times of reported detects within the RT windows?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?			✓	
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

LDC #: 54136A5

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (0.4/std)	Recalculated CF (0.4/std)	Reported CF (initial)	Recalculated CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL DEST22	1/21/22	2,4-D cup1	0.174	0.174	0.188	0.188	11.13	11.13
			2,4-D cup2	0.186	0.186	0.199	0.199	15.27	15.27
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136A5

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. CF -CF)/ave.CF

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of target analyte
C = Concentration of target analyte

#	Standard ID	Calibration Date	Target Analyte	Average CF(Ical)/ CCV Conc.	Reported CF/ Conc. CCV	Recalculated CF/ Conc. CCV	Reported %D	Recalculated %D
1	CCV	3/15/22	2,4-D CLP1	0.199	0.186	0.186	6.5	6.5
	PB3122	0240	2,4-D CLP2	0.188	0.197	0.197	4.8	4.8
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136A5

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
DCAA	CLP1	0.500	0.464	93	93	6
	2	↓	0.486	97	97	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 54136AT

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

%Recovery = 100 * (SSC/SA)
RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where SSC = Spiked sample concentration
LCS = Laboratory Control Sample
SA = Spike added
LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: WG1614866-2/3

Compound	Spike Added (ug/kg)		Spike Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
2,4-D	164	162	126	136	77	77	84	84	9	9

Comments: _____

LDC #: 54136A5

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

METHOD: ✓ GC __ HPLC

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the target analyte to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the target analyte In the initial calibration 0.384
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid 1.058 / 30.54

Example:

Sample ID. WG1614866-2 (LCS) 2,4-D

Concentration = $\frac{833.6 \times 10^6 \ (0.250)\ (0.5)\ (20)\ (1000)}{2733.2 \times 10^6 \ (0.199)(30.54)}$ =

= 125.46 ug/kg

#	Sample ID	Target analyte	Reported Concentrations (ug/kg)	Recalculated Results Concentrations (ug/kg)	Qualifications
	LCS	2,4-D	126	125.46	

Comments: _____

LDC #: 54136A96 **VALIDATION COMPLETENESS WORKSHEET** Date: 06/27/22

SDG #: L2210848 Category B Page: 1 of 1

Laboratory: Alpha Analytical, Inc., Westborough, MA Reviewer: JVG

2nd Reviewer: RLC

METHOD: LC/MS Perfluoroalkyl & Polyfluoroalkyl Substances (EPA Method 537M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	LC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/SW	r² TV ≤ 30/50% ICV ≤ 30%
IV.	Continuing calibration/ISC	SW	%D ≤ 30% ISC ≤ 50%
V.	Laboratory Blanks	A	
VI.	Field blanks	SW	EB = EQUIPMENT BLANK (same SDG) *FB = FIELD BLANK
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	N	
X.	Labeled Compounds	A	
VI.	Target analyte quantitation	A	
XII.	Target analyte identification	A	
XIII.	System performance	A	
XIV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; * ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SB007 7-9	L2210848-06	Soil	03/01/22
2	SB001 0-2	L2210848-14	Soil	03/01/22
3				
4				
5				
6				
7				
8				
9				
10				

Notes:

	WG1611670-1 BLANK						

LDC#: 54136 A96

VALIDATION FINDINGS CHECKLIST

Reviewer: JVG

Method: LC/MS PFAS (EPA Method 537M)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	√			
Was cooler temperature criteria met?	√			
II. LC/MS Instrument performance check				
Were the instrument performance reviewed and found to be within the validation criteria?	√			
III. Initial calibration and Initial Calibration Verification				
Did the laboratory perform a 5 point calibration prior to sample analysis?	√			
Were all percent relative standard deviations (%RSD) ≤ 20%?			√	
Was a curve fit used for evaluation? If yes, did the initial calibration meet the coefficient of determination (r^2) criteria of ≥ 0.990?	√			
Were all analytes within 70-130% or percent differences (%D) ≤30% of their true value for each calibration standard except the lowest point (50-150%)?	√			
Was the signal to noise (S/N) ratio for all compounds within the validation criteria?	√			
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	√			
Were all percent differences (%D) ≤ 30%?		✓		
IV. Continuing calibration and Instrument Sensitivity Check				
Was a continuing calibration analyzed prior to sample analysis, after every 10 samples and at the end of the analytical sequence?	√			
Were all percent differences (%D) of the continuing calibration ≤ 30%?	√			
Were all the retention times within the acceptance windows?	√			
Was the signal to noise (S/N) ratio for all compounds within the validation criteria?	√			
Were all percent differences (%D) of the Instrument Sensitivity Check ≤ 50%?		✓		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	√			
Was a laboratory blank analyzed for each matrix and concentration?	√			
Was there contamination in the laboratory blanks?		√		
VI. Field blanks				
Were field blanks identified in this SDG?	√			
Were target compounds detected in the field blanks?		√		
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?		√		
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			√	

Validation Area	Yes	No	NA	Findings/Comments
VIII. Laboratory control samples				
Was an LCS analyzed per extraction batch for this SDG?	√			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	√			
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target compounds detected in the field duplicates?			✓	
X. Labeled compounds				
Were labeled compound percent recoveries (%R) within the QC limits?	✓	.		
XI. Compound quantitation				
Did the laboratory reporting limits (i.e. DL, LOD, LOQ) meet the QAPP?	√			
Did reported results include both branched and linear isomers?	√			
Were the correct ion transition, labeled compound and relative response factor (RRF) used to quantitate the compound?	√			
Were compound quantitation and reporting limits adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	√			
XII. Target compound identification				
Was the signal to noise (S/N) ratio for all compounds within the validation criteria?	√			
Were two transitions and the ion transition ratio per analyte monitored and documented with the exception of PFBA and PFPeA?	√			
Were ion ratios within QC limits?	✓			
XIII. System performance				
System performance was found to be acceptable.	√			
XIV. Overall assessment of Data				
Overall assessment of data was found to be acceptable.	√			

TARGET COMPOUND WORKSHEET

METHOD: PFAS

A. Perfluorobutanoic acid (PFBA)	X. 8:2 Fluorotelomer sulfonate (8:2 FTS)	
B. Perfluoropentanoic acis (PFPeA)	Y. 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	
C. Perfluorohexanoic acid (PFHxA)	Z. HFPO-DA (GenX)	
D. Perfluoroheptanoic acid (PFHpA)	AA. 9Cl-PF3ONS	(F-53B Major)
E. Perfluorooctanoic acid (PFOA)	BB. 11Cl-PF3OUdS	(F-53B Minor)
F. Perfluorononanoic acid (PFNA)	CC. Hexafluoropropylene oxide dimer acid (HFPO-DA)	
G. Perfluorodecanoic acid (PFDA)	DD. 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	
H. Perfluoroundecanoic acid (PFUnDA)	EE. 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	
I. Perfluorododecanoic acid (PFDoA)	FF. 4:2 Fluorotelomersulfonic acid	
J. Perfluorotridecanoic acid (PFTrDA)	GG. 6:2 Fluorotelomersulfonic acid	
K. Perfluorotetradecanoic acid (PFTeDA)	HH. 8:2 Fluorotelomersulfonic acid	
L. Perfluorobutanesulfonic acid (PFBS)	II. 1H,1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)	
M. Perfluoropentanesulfonic acid (PFPeS)	JJ. 1H,1H, 2H, 2H- Perfluorooctanesulfonic acid (6:2 FTS)	
N. Perfluorohexanesulfonic acid (PFHxS)	KK. 1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	
O. Perfluoroheptanesulfonic acid (PFHpS)	LL. N-Methylperfluorooctanesulfonamide (NMeFOSA)	
P. Perfluorooctanesulfonic acid (PFOS)	MM. 3:3 Fluorotelomer carboxylate (3:3 FTCA)	
Q. Perfluorononanesulfonic acid (PFNS)	NN. 5:3 Fluorotelomer carboxylate (5:3 FTCA)	
R. Perfluorodecanesulfonic acid (PFDS)	OO. 7:3 Fluorotelomer carboxylate (7:3 FTCA)	
S. Perfluorooctanesulfonamide (PFOSA)	PP. Perfluorooctadecanoic acid (PFODA)	
T. N-Methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)		
U. N-Ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)		
V. 4:2 Fluorotelomer sulfonate (4:2 FTS)		
W. 6:2 Fluorotelomer sulfonate (6:2 FTS)		

LDC #: 54136A96

VALIDATION FINDINGS WORKSHEET
Initial Calibration Verification

Reviewer: JVG

METHOD: LC/MS PFOS/PFOAs (EPA Method 537M)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Was an initial calibration verification standard analyzed after calibration for each instrument?

Y (N) N/A Were all initial calibration verification percent differences (%D) ≤30%?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤30%)	Associated Samples	Qualifications
	03/07/22	I15756	L-T	32.7	All (ND)	J/UJ/A
			L-U	32.4	↓ ↓	↓

LDC #: 54136A96

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Reviewer: JVG

METHOD: LC/MS PFAs (EPA Method 537M)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a continuing calibration standard analyzed after every 10 injections for each instrument?

Y (N) N/A Were all continuing calibration percent differences (%D) ≤30 %?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤30.0%)	Finding RRF (Limit:)	Associated Samples	Qualifications
	03/18/22	I16452 (ISC)	br-T	72 (≤50%)		All I (ND)	J/NJ/A

LDC #: 54136A96

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: JVG

METHOD: LC/MS PFAS (EPA Method 537M)

(Y) N N/A Were field blanks identified in this SDG?

Y (N) N/A Were target compounds detected in the field blanks?

Blank units: ng/L **Associated sample units:** ng/L

Sampling date: 03/01/22

Field blank type: (circle one) Trip Blank/Field Blank / Rinsate / Other: EB Associated Samples: All (ND)

Compound	Blank ID	Sample Identification								
	EQUIPMENT BLANK									
JJ	3.85									

Blank units: _____ **Associated sample units:** _____

Sampling date: _____

Field blank type: (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: _____

Compound	Blank ID	Sample Identification								

LDC#: 54136A96

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: LC/MS PFCs (EPA Method 537Mod)

Calibration Date	Instrument	Compound	Standard	(Y) Area ratio	(X) Conc ratio	CF
3/7/2022	LCMS01	L-PFOA	0.5	0.06491	0.050	1.298
			1	0.11872	0.100	1.187
		M8PFOA	2.5	0.22422	0.200	1.121
			5	0.52471	0.500	1.049
			10	1.13520	1.000	1.135
			25	2.55797	2.500	1.023
			50	5.71872	5.000	1.144
			100	12.21150	10.000	1.221
			250	30.18564	25.000	1.207
					Ave	1.137

Regression Output	Calculated	Reported
Constant	0.000000	0.000000
R Squared	0.998183	0.998136
X Coefficient(s)	1.21205305	1.189210
Correlation Coefficient	0.999091	
Coefficient of Determination (r^2)	0.998183	0.998136

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Method: PFCs (EPA Method 537M)

Date	Instrument	Compound	Standards	(Y) Response Ratio	(X) Conc. Ratio	(X^2) Conc. Ratio
3/7/2022	LCMS01	L-PFOS (M8PFOS)	0.394	0.0404	0.04	0.0016
			0.788	0.0701	0.08	0.0062
			1.576	0.1386	0.16	0.0248
			3.938	0.3310	0.39	0.1551
			7.880	0.7280	0.79	0.6209
			19.698	1.6311	1.97	3.8799
			39.400	3.8978	3.94	15.5236
			78.813	7.6881	7.88	62.1141
			197.000	18.7558	19.70	388.0900

Regression Output

			Reported
Constant	c =	0.0000	0.0000
R Squared		0.9997743	0.998483
X Coefficient(s)	a =	9.75720E-01	9.42137E-01
	b =	-1.1714E-03	7.55257E-05
Correlation Coefficient		0.999887	
Coefficient of Determination (r^2)	r^ 2	0.999774	

LDC#: 54136A96

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Calculation Verification

Reviewer: JVG

METHOD: LC/MS PFCs (EPA Method 537Mod)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
RRF = (Ax)(Cis)/(Ais)(Cx)

Where:
ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
Ax = Area of compound
Cx = Concentration of compound,
Ais = Area of associated internal standard
Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	Conc (Actual)	Reported Conc (CCV)	Recalculated Conc (CCV)	Reported % R	Recalculated % R
1	WG1617188-3,537ILOW	3/18/2022	PFOA (M8PFOA)	0.500	0.362	0.362	72.5	72.5
			PFOS (M8PFOS)	0.394	0.346	0.346	87.9	87.9
1	WG1617188-4,537IMED	3/18/2022	PFOA (M8PFOA)	10.000	8.350	8.350	83.5	83.5
			PFOS (M8PFOS)	7.880	6.700	6.700	85.0	85.0

LDC #: 54136A96

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: _____

METHOD: LC/MS PFAS (EPA Method 537.1)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA Where: SSC = Spike concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC) LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: WG1611670-2 LCS

Compound	Spike Added (ng/g)		Spike Concentration (ng/g)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
PFOA	5.0	NA	4.28	NA	86	86				
PFOS	4.64	"	4.58	"	99	99				

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136 A96

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: JVG

METHOD: LC/MS PFAS (EPA Method 537M)

The concentration of the sample was calculated for the compound identified below using the following calculation:

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

V_i = Volume of extract injected in microliters (ul)

V_t = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. 1, PFOA:

~~Conc.~~ X = $\frac{\left[\left(\frac{9044}{87710}\right)(10)\right]}{(1.18921)} = 0.867$

final conc. = $\frac{(0.867)(1mL)(10mL)}{(4.42g)(0.85)(5mL)} = 0.462$ ng/g

#	Sample ID	Compound	Reported Concentration (ng/g)	Calculated Concentration (ng/g)	Qualification
	1	PFOA	0.463	0.462	---

Site:	737 4th Ave, Brooklyn, NY
Laboratory:	Alpha Analytical, Inc., Westborough, MA
Report No.:	L2210848
Reviewer:	An Le and Kevin Kha/Laboratory Data Consultants for P.W. Grosser Consulting
Date:	July 7, 2022

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
SB007 7-9	L2210848-06	Metals, Wet Chemistry
SB001 0-2	L2210848-14	Metals, Wet Chemistry

Associated QC Samples(s):
Field/Trip Blanks: Equipment Blank
Field Duplicate pair: None Associated

The above-listed soil samples were collected on March 1, 2022 and were analyzed for metals by SW-846 methods 6010D/7471B, cyanide by SW-846 method 9012B, hexavalent chromium by SW-846 method 7196A, and trivalent chromium by calculation method. The data validation was performed in accordance with the USEPA Region 2 *Standard Operating Procedure for the Evaluation of Metals for the Contract Laboratory Program,* SOP HW-3a/c, Revision 1 (September 2016), and the USEPA *Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review,* EPA 542-R-20-006 (November 2020), modified as necessary to accommodate the non-CLP methodologies used.

The inorganic data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness
- Holding Times and Sample Preservation
- Instrument Calibration
- Contract Required Quantitation Limit (CRQL) Standard Recoveries
- Blank Analysis Results
- Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Duplicate Results
- Laboratory Control Sample (LCS)
- Serial Dilution Results
- Field Duplicate Results
- Moisture Content
- Detection Limits Results
- Sample Quantitation Results

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

Instrument Calibration

All criteria were met.

CRQL Standard Recoveries

Metals

All criteria were met.

Blank Results

Metals

Analytes were detected below the reporting limits in the laboratory blank samples. The following table summarizes the contamination and validation actions taken.

Blank ID	Analyte	Level Detected	Action Level	Associated Samples
PB (prep blank)	Potassium Sodium	5.79 mg/Kg 30.3 mg/Kg	RL RL	SB007 7-9 SB001 0-2
ICB/CCB	Antimony	0.00790 mg/L	RL	SB007 7-9 SB001 0-2
ICB/CCB	Beryllium Sodium	0.00040 mg/L 0.0432 mg/L	RL RL	SB007 7-9
ICB/CCB	Selenium	0.00050 mg/L	RL	SB001 0-2

Blank Actions for analytes detected below the reporting limit (RL).
If the sample result is < RL, report the result as nondetect (U) at the RL.
If the sample result is > RL or nondetect, no action is required.
Blank Actions for analytes detected above the reporting limit or RL.
If the sample result is < RL and <action level; report the result as nondetect (U) at the RL.
If the sample result is > RL and < action level; report the result as nondetect (U) at the reported value.
If the sample result is > action level or nondetect, no action is required.

Qualified sample results are listed in the table below.

Sample	Analyte	Reported Level	Validation Action
SB007 7-9	Sodium	84.2 mg/Kg	179U mg/Kg
	Beryllium	0.331 mg/Kg	0.447U mg/Kg

These results can be used for project objectives as nondetect (U) which may have a minor impact on the data usability.

Contamination was detected in the equipment blank sample Equipment Blank for the metals analyses. The following table summarizes the contamination greater than the reporting limit and validation actions taken.

Blank ID	Analyte	Level Detected	Action Level	Associated Samples
Equipment Blank	Aluminum	0.00791 mg/L	RL	SB007 7-9
	Arsenic	0.00024 mg/L	RL	SB001 0-2
	Sodium	0.0456 mg/L	RL	

Blank Actions for analytes detected above the reporting limit (RL).
If the sample result is < RL and < action level; report the result as nondetect (U) at the RL.
If the sample result is > RL and < action level; report the result as nondetect (U) at the reported value.
If the sample result is > action level or nondetect, no action is required.

Qualified sample results are listed in the table below.

Sample	Analyte	Reported Level	Validation Action
SB007 7-9	Sodium	84.2 mg/Kg	179U mg/Kg

These results can be used for project objectives as nondetect (U) which may have a minor impact on the data usability.

Wet Chemistry

Contamination was not detected in the laboratory blank samples.

No positive results greater than the reporting limit were found in the equipment blank sample Equipment Blank for the wet chemistry analyses.

ICP ICS Results

Metals

Analytes were within control limits in the ICSA and ICSAB analyses.

MS/MSD Results

Metals

MS/MSD analyses were performed on associated project samples SB010 0-2 and SB008 0-2 for metals analyses. The following table lists the MS/MSD percent recoveries (%R) outside of control limits in the metals analyses and the resulting validation actions.

MS ID	Analyte	MS %R (Limits)	MS/D %R (Limits)	Affected Sample	Validation Action
SB010 0-2MS/MSD	Antimony	49 (75-125)	53 (75-125)	SB007 7-9	J detects/UJ nondetects
	Mercury	-	70 (80-120)	SB001 0-2	J detects/UJ nondetects
SB010 0-2MS/MSD	Zinc	-	316 (75-125)	SB007 7-9 SB001 0-2	J detects
SB008 0-2MS/MSD	Antimony	53 (75-125)	55 (75-125)	SB007 7-9	J detects/UJ nondetects
	Zinc	64 (75-125)	-	SB001 0-2	J detects/UJ nondetects
SB008 0-2MS/MSD	Mercury	123 (80-120)	129 (80-120)	SB007 7-9	None
SB008 0-2MS/MSD	Mercury	123 (80-120)	129 (80-120)	SB001 0-2	J detects

- Within control limits

The antimony, mercury, manganese, and zinc results may be biased low due to low MS/MSD percent recoveries. The results can be used for project objectives as estimated values (J) or nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

The zinc and mercury results may be biased high due to high MS/MSD percent recoveries. The results can be used for project objectives as estimated values (J) which may have a minor impact on the data usability.

Validation action was not required for mercury due to high MS/MSD recoveries as positive results only are affected and this analyte was not detected in the associated sample.

For SB010 0-2MS/MSD, no data were qualified for aluminum, calcium, iron, magnesium, and manganese percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration.

For SB008 0-2MS/MSD, no data were qualified for aluminum, calcium, iron, and magnesium percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration.

The following table lists the MS/MSD relative percent differences (RPD) outside of control limits in the metals analyses and the resulting validation actions.

MS ID	Analyte	RPD (Limits)	Affected Sample	Validation Action
SB010 0-2MS/MSD	Calcium	28 (≤20)	SB007 7-9	J detects
	Magnesium	22 (≤20)	SB001 0-2	J detects
SB008 0-2MS/MSD	Calcium	41 (≤20)	SB007 7-9	J detects
	Magnesium	50 (≤20)	SB001 0-2	J detects

The calcium and magnesium results were estimated due to MS/MSD relative percent difference exceedances. The bias cannot be determined. The results can be used for project objectives as estimated values (J) which may have a minor impact on the data usability.

Wet Chemistry

MS/MSD analyses were performed on associated project samples SB008 0-2, SB002 2-4, and SB010 0-2 for wet chemistry analyses. All criteria were met.

Laboratory Duplicate Results

Metals

Laboratory duplicates were not associated with this sample set. Validation action was not required on this basis.

Wet Chemistry

Laboratory duplicates were performed on samples SB010 0-2 and SB008 0-2 for wet chemistry analyses. All criteria were met.

LCS Results

Metals

All criteria were met.

Wet Chemistry

The following table lists the LCS/LCSD percent recoveries (%R) outside of control limits in the wet chemistry analyses and the resulting validation actions.

LCS ID	Analyte	LCS %R (Limits)	LCS/D %R (Limits)	Affected Sample	Validation Action
LCS/LCSD	Cyanide	68 (80-120)	79 (80-120)	SB007 7-9	J detects/UJ nondetects
	Cyanide	-	69 (80-120)	SB001 0-2	J detects/UJ nondetects

- Within control limits

The cyanide results may be biased low due to low LCS/LCSD percent recoveries. The results can be used for project objectives as estimated values (J) or nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Serial Dilution Results

Metals

A serial dilution analysis was performed on associated project samples SB010 0-2 and SB008 0-2 for metals analyses. All criteria were met.

Field Duplicate Results

A field duplicate pair was not associated with this sample set. Validation action was not required on this basis.

Moisture Content

All criteria were met.

Detection Limits Results

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the metals and wet chemistry analyses. These results were estimated (J) by the laboratory.

Due to high target analyte levels or difficult sample matrix, select samples were analyzed at dilutions. The following table lists the sample dilutions which were performed and the results reported. RLs were elevated accordingly.

Sample	Metal Analyses Reported
SB007 7-9 SB001 0-2	2-fold dilution due to sample matrix and high target analyte levels for 6010D metals

Dilutions were not required for wet chemistry analyses.

Sample Quantitation Results

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Form 1
METALS

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-06	Date Collected	: 03/01/22 14:00
Client ID	: SB007 7-9	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/24/22 22:45
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: EW
Lab File ID	: WG1619255.pdf	Instrument ID	: TRACE7
Sample Amount	: 1.32g	%Solids	: 85
Digestion Method	: EPA 3050B	Date Digested	: 03/11/22

		mg/kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7429-90-5	Aluminum, Total	6040	8.94	2.41		
7440-36-0	Antimony, Total	ND	4.47	0.340	U	UJ
7440-38-2	Arsenic, Total	2.50	0.894	0.186		
7440-39-3	Barium, Total	22.8	0.894	0.156		
7440-41-7	Beryllium, Total	0.331	0.447	0.030	J	0.447U
7440-43-9	Cadmium, Total	ND	0.894	0.088	U	U
7440-70-2	Calcium, Total	517	8.94	3.13		J
7440-47-3	Chromium, Total	9.57	0.894	0.086		
7440-48-4	Cobalt, Total	4.62	1.79	0.148		
7440-50-8	Copper, Total	5.72	0.894	0.231		
7439-89-6	Iron, Total	12600	4.47	0.808		
7439-92-1	Lead, Total	8.79	4.47	0.240		
7439-95-4	Magnesium, Total	1590	8.94	1.38		J
7439-96-5	Manganese, Total	224	0.894	0.142		
7440-02-0	Nickel, Total	8.33	2.24	0.216		
7440-09-7	Potassium, Total	350	224	12.9		
7782-49-2	Selenium, Total	ND	1.79	0.231	U	U
7440-22-4	Silver, Total	ND	0.894	0.253	U	U
7440-23-5	Sodium, Total	84.2	179	2.82	J	179U
7440-28-0	Thallium, Total	ND	1.79	0.282	U	U
7440-62-2	Vanadium, Total	14.7	0.894	0.182		
7440-66-6	Zinc, Total	25.1	4.47	0.262		J

KK 7/14/22

Form 1
METALS

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/24/22 23:35
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: EW
Lab File ID	: WG1619255.pdf	Instrument ID	: TRACE7
Sample Amount	: 1.258g	%Solids	: 95
Digestion Method	: EPA 3050B	Date Digested	: 03/11/22

		mg/kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7429-90-5	Aluminum, Total	3400	8.41	2.27		
7440-36-0	Antimony, Total	ND	4.20	0.320	U	U
7440-38-2	Arsenic, Total	1.36	0.841	0.175		
7440-39-3	Barium, Total	36.5	0.841	0.146		
7440-41-7	Beryllium, Total	0.151	0.420	0.028	J	J
7440-43-9	Cadmium, Total	0.236	0.841	0.082	J	J
7440-70-2	Calcium, Total	32300	8.41	2.94		J
7440-47-3	Chromium, Total	10.2	0.841	0.081		
7440-48-4	Cobalt, Total	2.18	1.68	0.140		
7440-50-8	Copper, Total	16.8	0.841	0.217		
7439-89-6	Iron, Total	5090	4.20	0.760		
7439-92-1	Lead, Total	35.6	4.20	0.225		
7439-95-4	Magnesium, Total	2760	8.41	1.30		J
7439-96-5	Manganese, Total	101	0.841	0.134		
7440-02-0	Nickel, Total	6.71	2.10	0.204		
7440-09-7	Potassium, Total	661	210	12.1		
7782-49-2	Selenium, Total	0.303	1.68	0.217	J	J
7440-22-4	Silver, Total	ND	0.841	0.238	U	U
7440-23-5	Sodium, Total	200	168	2.65		
7440-28-0	Thallium, Total	ND	1.68	0.265	U	U
7440-62-2	Vanadium, Total	10.6	0.841	0.171		
7440-66-6	Zinc, Total	54.5	4.20	0.246		J

KK 7/14/22

Form 1
METALS

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-06	Date Collected	: 03/01/22 14:00
Client ID	: SB007 7-9	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/17/22 23:39
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: ZK
Lab File ID	: WG1616711.pdf	Instrument ID	: NIC3
Sample Amount	: 0.374g	%Solids	: 85
Digestion Method	: EPA 7471B	Date Digested	: 03/11/22

		mg/kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7439-97-6	Mercury, Total	ND	0.079	0.051	U	UJ

KK 7/14/22

Form 1
METALS

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/18/22 00:09
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: ZK
Lab File ID	: WG1616711.pdf	Instrument ID	: NIC3
Sample Amount	: 0.347g	%Solids	: 95
Digestion Method	: EPA 7471B	Date Digested	: 03/11/22

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.077	0.076	0.050	J

KK 7/14/22

Form 1
WETCHEM

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-06	Date Collected	: 03/01/22 14:00
Client ID	: SB007 7-9	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/10/22 14:38
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,9010C/9012B	Analyst	: CS
Lab File ID	: TCN031022-B1	Instrument ID	: LACHAT6
Sample Amount	: 1.0628g	%Solids	: 85
Digestion Method	:	Date Digested	: 03/10/22

		mg/kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
57-12-5	Cyanide, Total	ND	1.1	0.24	U	UJ

KK 7/14/22

Form 1
WETCHEM

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/11/22 09:16
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,9010C/9012B	Analyst	: CS
Lab File ID	: TCN031122-A	Instrument ID	: LACHAT6
Sample Amount	: 1.075g	%Solids	: 95
Digestion Method	:	Date Digested	: 03/10/22

		mg/kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
57-12-5	Cyanide, Total	0.53	0.98	0.21	J	J

KK 7/14/22

Form 1
WETCHEM

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-06	Date Collected	: 03/01/22 14:00
Client ID	: SB007 7-9	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/15/22 12:25
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7196A	Analyst	: JT
Lab File ID	: WG1614684.csv	Instrument ID	: GENSYS10VI
Sample Amount	: 2.4692g	%Solids	: 85
Digestion Method	: EPA 3060A	Date Digested	: 03/11/22

		mg/kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
18540-29-9	Chromium, Hexavalent	ND	0.944	0.189	U	U

KK 7/14/22

Form 1
WETCHEM

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/15/22 12:25
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7196A	Analyst	: JT
Lab File ID	: WG1614687.csv	Instrument ID	: GENSYS10VI
Sample Amount	: 2.5078g	%Solids	: 95
Digestion Method	: EPA 3060A	Date Digested	: 03/11/22

		mg/kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
18540-29-9	Chromium, Hexavalent	0.222	0.846	0.169	J	J

KK 7/14/22

Form 1
METALS

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-06	Date Collected	: 03/01/22 14:00
Client ID	: SB007 7-9	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/24/22 22:45
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 107,-	Analyst	:
Lab File ID	: --	Instrument ID	:
Sample Amount	:	%Solids	: 85
Digestion Method	:	Date Digested	:

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
16065-83-1	Chromium, Trivalent	9.6	0.94	0.94	

KK 7/14/22

Form 1
METALS

Client	: P. W. Grosser	Lab Number	: L2210848
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2210848-14	Date Collected	: 03/01/22 16:05
Client ID	: SB001 0-2	Date Received	: 03/02/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/24/22 23:35
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 107,-	Analyst	:
Lab File ID	: --	Instrument ID	:
Sample Amount	:	%Solids	: 95
Digestion Method	:	Date Digested	:

		mg/kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
16065-83-1	Chromium, Trivalent	10	0.85	0.85	J	J

KK 7/14/22

LDC #: 54136A4b
SDG #: L2210848
Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET
Category B

Date: 6/22/22
Page: 1 of 1
Reviewer: ATV
2nd Reviewer: [illegible]

METHOD: Metals (EPA SW-846 Method 6010D/7471B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Instrument Calibration	A	
III.	ICP Interference Check Sample (ICS) Analysis	A	
IV.	Laboratory Blanks	SW	
V.	Field Blanks	SW	EB = Equipment Blank
VI.	Matrix Spike/Matrix Spike Duplicates	SW	SB010 0-2 MS/MSD, SB008 0-2 MS/MSD (From SDG # L2210848)
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	SW	SB010 0-2, SB008-0-2 (From SDG # L2210848)
IX.	Laboratory control samples	A	LCS
X.	Field Duplicates	N	
XI.	Target Analyte Quantitation	A	MDL < samples < RL : Jdet
XII	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SB007 7-9 (6010D, 2X high analytes, matrix)	L2210848-06	Soil	03/01/22
2	SB001 0-2 ↓	L2210848-14	Soil	03/01/22
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Notes:

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
I. Technical holding times				
Were all technical holding times met?	✓			
Were all water samples preserved to a pH of <2.			✓	
II. ICP-MS Tune				
Were mass resolutions within 0.1 amu for all isotopes in the tuning solution?			✓	
Were %RSDs of isoptoes in the tuning solution ≤5%?			✓	
III. Calibration				
Were all instruments calibrated daily?	✓			
Were the proper standards used?	✓			
Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits?	✓			
Were the low level standard checks within 70-130%?			✓	not reported
Were all initial calibration correlation coefficients within limits as specifed by the method?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks?	✓			
Was there contamination in the initial and continuing calibration blanks?	✓			
V. Interference Check Sample				
Were the interference check samples performed daily?	✓			
Were the AB solution recoveries within 80-120%?	✓			
VI. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)		✓		
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?		✓		
VII. Laboratory Control Samples				
SDG?	✓			

Were the LCS recoveries and RPDs (if applicable) within QC limits?	✓			
METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
VIII. Internal Standards				
Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits?			✓	
If the recoveries were outside the limits, was a reanalysis performed?			✓	
IX. Serial Dilution				
Were all percent differences <10%?		✓		
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		✓		
X. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample dilutions?	✓			
Were all soil samples dry weight corrected?	✓			
XI. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	✓			
XII. Field Duplicates				
Were field duplicates identifed in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XIII. Field Blanks				
Were field blanks identified in this SDG?	✓			
Were target analytes detected in the field blanks?	✓			

LDC #: 54136A4b

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: ATL

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1,2	S	(Al) (Sb) (As) (Ba) (Be) (Cd) (Ca) (Cr) (Co) (Cu) (Fe) (Pb) (Mg) (Mn) (Hg) (Ni) (K) (Se) (Ag) (Na) (Tl) (V) (Zn) Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____

Comments: Mercury by CVAA if performed

LDC #: 54136A4b

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: ATL

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: NA
Sample Concentration units, unless otherwise noted: mg/kg Associated Samples: all

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (mg/L)	Maximum ICB/CCB[a] (mg/L)	Action Level	1								
Sb			0.00790										
K	5.79												
Na	30.3				84.2/179								

Sample Concentration units, unless otherwise noted: mg/kg Associated Samples: 1

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (mg/L)	Maximum ICB/CCB[a] (mg/L)	Action Level	1								
Be			0.00040		0.331/0.447								
Na			0.0432		84.2/179								

Sample Concentration units, unless otherwise noted: mg/kg Associated Samples: 2

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (mg/L)	Maximum ICB/CCB[a] (mg/L)	Action Level	2								
Be			0.00050		0.151/0.420								

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 54136A4b

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: ATL

METHOD: Trace Metals (EPA SW846 6010/6020/7000)

Blank units: mg/L **Associated sample units:** mg/kg
Sampling date: 03/01/22 Soil factor applied _____
Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: all

Analyte	Blank ID	Sample Identification										
	Equipment Blank	Action Limit	1									
Al	0.00791											
As	0.00024											
Na	0.0456		84.2/179									

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

LDC #: 54136A4b

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: ATL

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a matrix spike analyzed for each matrix in this SDG?

Y (N) N/A Were matrix spike percent recoveries (%R) within the control limits of 75-125? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

Y (N) N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for samples?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	MS/MSD ID	Matrix	Analyte	MS %Recovery	MSD %Recovery	RPD (Limits)	Associated Samples	Qualifications
	SB010 0-2MS/MSD From SDG # L2210848	S	Sb	49 (75-125)	53 (75-125)		all	J/UJ/A (non-detect)
			Pb	73 (75-125)	55 (75-125)		all	no qual other MS/MSD passed
			Tl	71 (75-125)	66 (75-125)		all	no qual other MS/MSD passed
			Zn		316 (75-125)		all	Jdet/A (detect)
			Ca			28 (≤ 20%)	all	J/UJ/A (detect)
			Mg			22 (≤ 20%)	all	J/UJ/A (detect)
			Zn			69 (≤ 20%)	all	no qual other MS/MSD passed
	SB008 0-2MS/MSD From SDG # L2210848	S	Sb	53 (75-125)	55 (75-125)		all	J/UJ/A (non-detect)
			Mn	28 (75-125)			all	no qual other MS/MSD passed
			Zn	64 (75-125)			all	J/UJ/A (detect)
			Ca			41 (≤ 20%)	all	J/UJ/A (detect)
			Mg			50 (≤ 20%)	all	J/UJ/A (detect)

Comments: SB010 0-2MS/MSD: Al,Ca,Fe,Mg,Mn > 4X
SB008 0-2MS/MSD: Al,Ca,Fe,Mg > 4X

LDC #: 54136A4b

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: ATL

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

#	MS/MSD ID	Matrix	Analyte	MS %Recovery	MSD %Recovery	RPD (Limits)	Associated Samples	Qualifications
	SB010 0-2MS/MSD From SDG # L2210848	S	Hg		70 (80-120)		all	J/UJ/A (detect/non-detect)
			Hg			23 (≤ 20%)	all	no qual other MS/MSD passed
	SB008 0-2MS/MSD From SDG # L2210848	S	Hg	123 (80-120)	129 (80-120)		all	Jdet/A (non-detect=1)

LDC #: 54136A4b

VALIDATION FINDINGS WORKSHEET
ICP Serial Dilution

Reviewer: ATL

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A If analyte concentrations were > 50X the MDL (ICP) ,or >100X the MDL (ICP/MS), was a serial dilution analyzed?

Y N N/A Were ICP serial dilution percent differences (%D) ≤10%?

Y N N/A Is there evidence of negative interference? If yes, professional judgement will be used to qualify the data.

LEVEL IV ONLY:

Y N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Diluted Sample ID	Matrix	Analyte	%D (Limits)	Associated Samples	Qualifications
	SB010 0-2	S	Al	11 (≤10%)	all	no qual other SD passing
			Ba	12 (≤10%)	all	no qual other SD passing
			Ca	14 (≤10%)	all	no qual other SD passing
			Fe	16 (≤10%)	all	no qual other SD passing
			Mg	20 (≤10%)	all	no qual other SD passing
			Mn	16 (≤10%)	all	no qual other SD passing

Comments:

LDC #: 54136A4b

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: ATL

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found / True x 100 Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
ICV	ICP (Initial calibration) (3/24 @ 19:40)	Cr	0.4908 mg/L	0.500 mg/L	98	98	Y
	ICP/MS (Initial calibration)						
ICV	CVAA (Initial calibration)	Hg	0.003053 mg/L	0.00300 mg/L	102	102	Y
CCV	ICP (Continuing calibration) (3/24 @ 23:21)	V	0.4870 mg/L	0.500 mg/L	97	97	Y
	ICP/MS (Continuing calibration)						
CCV	CVAA (Continuing calibration) 3/17 @ 23:52	Hg	0.010358 mg/L	0.0100 mg/L	104	104	Y

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
	Mass Axis			± 0.1 AMU	NA	
	%RSD			≤ 5% RSD		

Comments:

LDC #: 54136A46

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: ATV

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units) mg/kg	True / D / SDR (units) mg/kg	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSA	ICP interference check	Fe	94.53 mg/L	100.00 mg/L	95	94	Y
LCS	Laboratory control sample	Ni	126.041	135	93	93	Y
SB010 0-2MS	Matrix spike	Hg	(SSR-SR) 0.1787	0.15	119	119	Y
SB010 0-2MS/MSD	Duplicate	Hg	0.2749	0.3468	23	23	Y
SB010 0-2	Post digestion spike	Sb	37.205	42.6	87	87	Y
SB010 0-2	ICP serial dilution	Ca	43777.816	38385.827	14	14	Y

Comments: _____

LDC #: 54136A4b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: ATV

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
(Y) N N/A Are all detection limits below the CRDL?

Detected analyte results for K were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation: #2

$7.858 \times 2 \times (50/1.258) \times 1/0.95 = 657.518$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	1	Ba	22.8	22.763	Y
	2	K	661	657.518	Y
	1	Hg	ND	ND (0.0204)	Y
	2	Hg	0.077	0.07660	Y

Note: _____

LDC #: 54136A6 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/24/22
SDG #: L2210848 Category B Page: 1 of 1
Laboratory: Alpha Analytical, Inc., Westborough, MA Reviewer: ATL
2nd Reviewer: KLC

METHOD: (Analyte) Cyanide (EPA SW-846 Method 9012B), Hexavalent Chromium (EPA SW-846 Method 7196A), Trivalent Chromium (Calculation)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	A	
V	Field blanks	ND	EB = Equipment Blank
VI.	Matrix Spike/Matrix Spike Duplicates	A	SB008 0-2 MS/MSD, SB002 2-4 MS/MSD, SB010 0-2 MS/MSD
VII.	Duplicate sample analysis	A	SB010 0-2 DUP, SB008 0-2 DUP
VIII.	Laboratory control samples	SW	LCS/LCSD
IX.	Field duplicates	N	
X.	Target Analyte Quantitation	A	MDL < samples < RL : Jdet
XI	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SB007 7-9	L2210848-06	Soil	03/01/22
2	SB001 0-2	L2210848-14	Soil	03/01/22
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Notes:

METHOD: Inorganics				
Validation Area	**Yes**	**No**	**NA**	**Comments**
I. Technical holding times				
Were all technical holding times met?	✓			
II. Calibration				
Were all instruments calibrated at the required frequency?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verifications within the QC limits?	✓			
Were all initial calibration correlation coefficients within limits as specifed by the method?	✓			
Were balance checks performed as required?			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks?		✓		
Was there contamination in the initial and continuing calibration blanks?		✓		
IV. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)	✓			
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?	✓			
V. Laboratory Control Samples				
Was a LCS analyzed for each batch in the SDG?	✓			
Were the LCS recoveries and RPDs (if applicable) within QC limits?		✓		
X. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample dilutions?	✓			
Were all soil samples dry weight corrected?	✓			
XI. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	✓			

METHOD: Inorganics				
Validation Area	**Yes**	**No**	**NA**	**Comments**
XII. Field Duplicates				
Were field duplicates identifed in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XIII. Field Blanks				
Were field blanks identified in this SDG?	✓			
Were target analytes detected in the field blanks?		✓		

LDC #: 54136A6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: ATC

All circled methods are applicable to each sample.

Sample ID	Parameter
1, 2	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk (CN) NH_3 TKN TOC (Cr6+) ClO_4 (Cr3+)
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4

Comments:

LDC #: 54136A6

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Reviewer: ATL

METHOD: Inorganics, Method see cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a laboratory control sample (LCS) analyzed for each matrix in this SDG?

Y (N) N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	LCS/LCSD ID	Matrix	Analyte	LCS %R (limits)	LCSD %R (limits)	RPD (limits)	Associated Samples	Qualifications
	LCS/LCSD	S	CN	68 (80-120)	79 (80-120)		1	J/UJ/P (non-detect)
			CN		69 (80-120)		2	J/UJ/P (detect)

Comments:

LDC #: 54136A6

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: ATV

Method: Inorganics, Method See cover

The correlation coefficient (r) for the calibration of CN- was recalculated. Calibration date: 03/11/22

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found X 100 / True

Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution

True = concentration of each analyte in the ICV or CCV source

Type of analysis	Analyte	Standard	Conc. (mg/l)	Height	Recalculated r or r^2	Reported r or r^2	Acceptable (Y/N)
Initial calibration	CN	s1	0	-0.00171	*0.999973*	0.999950	Y
		s2	0.2	0.01069			
		s3	0.5	0.02514			
		s4	1	0.04791			
		s5	2	0.09209			
		s6	5	0.22246			
		s7	10	0.43786			
		s8	25	1.08223			
CCV Calibration verification	CN	FOUND 0.10986	TRUE 0.100		110	110	Y
CCV Calibration verification	Cr6+	0.2006	0.200		100.3	101	Y
CCV Calibration verification	Cr6+	0.2006	0.200		100.3	101	Y

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136A6

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: ATL

METHOD: Inorganics, Method see cover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	mg/kg Found / S (units)	mg/kg True / D (units)	Recalculated %R / RPD	Reported %R / RPD	Acceptable (Y/N)
LCS	Laboratory control sample WG-1614045-2	CN	64.56014	95.3	68	68	Y
SB010 0-2 MS	Matrix spike sample	Cr6+	(SSR-SR) 1454.746	1740	84	84	Y
SB010 0-2 MS/MSD	Duplicate sample	Cr6+	1364.529	1454.917	6	6	Y

Comments: _____

LDC #: 54136AG

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: ATL

METHOD: Inorganics, Method see cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments?
(Y) N N/A Are all detection limits below the CRQL?

Compound (analyte) results for Cr6+ reported with a positive detect were recalculated and verified using the following equation:

Concentration = Recalculation: #2

$$\frac{0.005 - 0.001177516}{0.731747} \times \left(\frac{100}{2.5078}\right) \times \left(\frac{1}{0.95}\right) = 0.2193$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	1	CN	ND	ND (0.021)	Y
	1	Cr6+	ND	ND	Y
	1	Cr3+	9.6	9.57	Y
	2	CN	0.53	0.488	Y
	2	Cr6+	0.222	0.2193	Y
	2	Cr3+	10	9.981	Y

Note:

Site:	737 4th Ave, Brooklyn, NY
Laboratory:	Alpha Analytical, Inc., Westborough, MA
Report No.:	L2211451
Reviewer:	Felomina Tanguilig, Stella Cuenco, and Kevin Kha/Laboratory Data Consultants for P.W. Grosser Consulting
Date:	June 29, 2022

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
SB007 5-7	L2211451-02	VOC, SVOC, Pesticide, PCB, Herbicide

Associated QC Samples(s):
Field/Trip Blanks: None Associated
Field Duplicate pair: None Associated

The above-listed soil sample was collected on March 1, 2022 and was analyzed for volatile organic compounds (VOCs) by SW-846 method 8260C, semivolatile organic compounds (SVOCs) by SW-846 method 8270D, organochlorine pesticides by SW-846 method 8081B, polychlorinated biphenyls (PCBs) by SW-846 method 8082A, and herbicide by SW-846 method 8151A. The data validation was performed in accordance with the USEPA Region 2 *Standard Operating Procedure for Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-Method 8260B and 8260C,* SOP HW-24, Revision 4 (October 2014), the USEPA Region 2 *Standard Operating Procedure for Semivolatile Data Validation,* SOP HW-35A, Revision 0 (June 2015), the USEPA Region 2 *Standard Operating Procedure for Validating Pesticide Compounds, Organochlorine Pesticides by Gas Chromatography SW-846 Method 8081B,* SOP HW-44, Revision 1.1 (December 2010), the USEPA Region 2 *Standard Operating Procedure for Validating PCB Compounds, PCBs by Gas Chromatography SW-846 Method 8082A,* SOP HW-45, Revision 1 (October 2006), the USEPA Region 2 *Standard Operating Procedure for Validating Chlorinated Herbicides,* SOP HW-17, Revision 3.1 (December 2010), and the USEPA *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review,* EPA 540-R-20-005 (November 2020) modified as necessary to accommodate the non-CLP methodologies used.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- GC/Electron Capture Detector (GC/ECD) Instrument Performance Checks
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Field Duplicate Results
- Moisture Content
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

VOC

Sample SB007 5-7 was held beyond the 48-hour holding time for freezing. The results can be used for project objectives as estimated values (J) or nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

SVOC, Pesticide, PCB, and Herbicide

All technical holding time requirements were met.

GC/MS Tunes

VOC and SVOC

All criteria were met.

GC/ECD Instrument Performance Checks

Pesticide

All criteria were met.

Initial and Continuing Calibrations

VOC

Initial calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Standard ID	Compound	RRF	Associated Samples		Validation Action
12/14/21	ICAL	1,4-Dioxane	0.00198 (≥0.005)	SB007 5-7	+	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 1,4-dioxane result was estimated due to response factor exceedance. The bias cannot be determined. The result can be used for project objectives as nondetect with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following tables.

Date	Standard ID	Compound	RRF	Associated Samples		Validation Action
03/10/22	CCV	1,4-Dioxane	0.00199 (≥0.005)	SB007 5-7	+	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 1,4-dioxane result was estimated due to response factor exceedance. The bias cannot be determined. The result can be used for project objectives as an estimated value (J) or nondetect with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Date	Standard ID	Compound	CC %D	Associated Samples		Validation Action
03/10/22	CCV	Dichlorodifluoromethane	34.6	SB001 0-2	XX	UJ nondetects
		Ethyl ether	24.5		XX	UJ nondetects
		Carbon disulfide	33.8		XX	UJ nondetects
		Methylene chloride	20.3		XX	UJ nondetects
		Chloroform	20.9		XX	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The dichlorodifluoromethane, ethyl ether, carbon disulfide, methylene chloride, and chloroform results were estimated due to continuing calibration exceedances. The bias cannot be determined. The results can be used for project objectives as estimated values (J) or nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

SVOC

Initial calibration:

All criteria were met.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Standard ID	Compound	CC %D	Associated Samples		Validation Action
03/20/22 (08:48)	CCV	Hexachlorocyclopentadiene	34.6	SB007 5-7	XX	UJ nondetects
		Dibenzo(a,h)anthracene	20.3		XX	UJ nondetects
03/20/22 (09:36)	CCV	1,4-Dioxane	25.7	SB007 5-7	XX	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The pyridine, hexachlorocyclopentadiene, dibenzo(a,h)anthracene, and 1,4-dioxane results were estimated due to continuing calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Pesticide and PCB

All criteria were met.

Herbicide

Initial calibration:

All criteria were met.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Standard ID	Column	Compound	CC %D	Associated Samples		Validation Action
03/16/22	CCV	CLP 2	2,4,5-T	49.4	SB007 5-7	XX	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 2,4,5-T result was estimated due to continuing calibration exceedance. The bias cannot be determined. The result can be used for project objectives as nondetect with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Blanks

Contamination was not detected in the method blanks.

A field blank was not associated with this sample set. Validation action was not required on this basis.

Surrogate Recoveries

VOC, SVOC, Pesticide, PCB, and Herbicide

All criteria were met.

MS/MSD Results

MS/MSD analyses were not associated with this sample set. Validation action was not required on this basis.

LCS Results

All criteria were met.

Internal Standards

All criteria were met.

Field Duplicate Results

A field duplicate pair was not associated with this sample set. Validation action was not required on this basis.

Moisture Content

All criteria were met.

Quantitation Limits and Data Assessment

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the VOC analysis. These results were qualified as estimated (J) by the laboratory.

No results were reported below the RL and above the MDL in the SVOC, pesticide, PCB, and herbicide analyses.

Dilutions were not required for VOC, SVOC, pesticide, PCB, and herbicide analyses.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: P. W. Grosser	Lab Number	: L2211451
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2211451-02	Date Collected	: 03/01/22 16:35
Client ID	: SB007 5-7	Date Received	: 03/04/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/10/22 20:54
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: JC
Lab File ID	: V04220310N07	Instrument ID	: VOA104
Sample Amount	: 4.1 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 87
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	7.0	3.2	U	UJ
75-34-3	1,1-Dichloroethane	ND	1.4	0.20	U	
67-66-3	Chloroform	ND	2.1	0.20	U	
56-23-5	Carbon tetrachloride	ND	1.4	0.32	U	
78-87-5	1,2-Dichloropropane	ND	1.4	0.17	U	
124-48-1	Dibromochloromethane	ND	1.4	0.20	U	
79-00-5	1,1,2-Trichloroethane	ND	1.4	0.37	U	
127-18-4	Tetrachloroethene	ND	0.70	0.27	U	
108-90-7	Chlorobenzene	ND	0.70	0.18	U	
75-69-4	Trichlorofluoromethane	ND	5.6	0.97	U	
107-06-2	1,2-Dichloroethane	ND	1.4	0.36	U	
71-55-6	1,1,1-Trichloroethane	ND	0.70	0.23	U	
75-27-4	Bromodichloromethane	ND	0.70	0.15	U	
10061-02-6	trans-1,3-Dichloropropene	ND	1.4	0.38	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.70	0.22	U	
542-75-6	1,3-Dichloropropene, Total	ND	0.70	0.22	U	
563-58-6	1,1-Dichloropropene	ND	0.70	0.22	U	
75-25-2	Bromoform	ND	5.6	0.34	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.70	0.23	U	
71-43-2	Benzene	ND	0.70	0.23	U	
108-88-3	Toluene	ND	1.4	0.76	U	
100-41-4	Ethylbenzene	ND	1.4	0.20	U	
74-87-3	Chloromethane	ND	5.6	1.3	U	
74-83-9	Bromomethane	ND	2.8	0.81	U	
75-01-4	Vinyl chloride	ND	1.4	0.47	U	

KK 7/14/22

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: P. W. Grosser	Lab Number	: L2211451
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2211451-02	Date Collected	: 03/01/22 16:35
Client ID	: SB007 5-7	Date Received	: 03/04/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/10/22 20:54
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: JC
Lab File ID	: V04220310N07	Instrument ID	: VOA104
Sample Amount	: 4.1 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 87
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-00-3	Chloroethane	ND	2.8	0.63	U	UJ
75-35-4	1,1-Dichloroethene	ND	1.4	0.33	U	
156-60-5	trans-1,2-Dichloroethene	ND	2.1	0.19	U	
79-01-6	Trichloroethene	ND	0.70	0.19	U	
95-50-1	1,2-Dichlorobenzene	ND	2.8	0.20	U	
541-73-1	1,3-Dichlorobenzene	ND	2.8	0.21	U	
106-46-7	1,4-Dichlorobenzene	ND	2.8	0.24	U	
1634-04-4	Methyl tert butyl ether	ND	2.8	0.28	U	
179601-23-1	p/m-Xylene	ND	2.8	0.78	U	
95-47-6	o-Xylene	ND	1.4	0.40	U	
1330-20-7	Xylenes, Total	ND	1.4	0.40	U	
156-59-2	cis-1,2-Dichloroethene	ND	1.4	0.24	U	
540-59-0	1,2-Dichloroethene, Total	ND	1.4	0.19	U	
74-95-3	Dibromomethane	ND	2.8	0.33	U	
100-42-5	Styrene	ND	1.4	0.27	U	
75-71-8	Dichlorodifluoromethane	ND	14	1.3	U	
67-64-1	Acetone	11	14	6.7	J	J
75-15-0	Carbon disulfide	ND	14	6.3	U	UJ
78-93-3	2-Butanone	ND	14	3.1	U	
108-05-4	Vinyl acetate	ND	14	3.0	U	
108-10-1	4-Methyl-2-pentanone	ND	14	1.8	U	
96-18-4	1,2,3-Trichloropropane	ND	2.8	0.18	U	
591-78-6	2-Hexanone	ND	14	1.6	U	
74-97-5	Bromochloromethane	ND	2.8	0.28	U	
594-20-7	2,2-Dichloropropane	ND	2.8	0.28	U	

KK 7/14/22

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: P. W. Grosser	Lab Number	: L2211451
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2211451-02	Date Collected	: 03/01/22 16:35
Client ID	: SB007 5-7	Date Received	: 03/04/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/10/22 20:54
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: JC
Lab File ID	: V04220310N07	Instrument ID	: VOA104
Sample Amount	: 4.1 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 87
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
106-93-4	1,2-Dibromoethane	ND	1.4	0.39	U	UJ
142-28-9	1,3-Dichloropropane	ND	2.8	0.23	U	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.70	0.18	U	
108-86-1	Bromobenzene	ND	2.8	0.20	U	
104-51-8	n-Butylbenzene	ND	1.4	0.23	U	
135-98-8	sec-Butylbenzene	ND	1.4	0.20	U	
98-06-6	tert-Butylbenzene	ND	2.8	0.16	U	
95-49-8	o-Chlorotoluene	ND	2.8	0.27	U	
106-43-4	p-Chlorotoluene	ND	2.8	0.15	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.2	1.4	U	
87-68-3	Hexachlorobutadiene	ND	5.6	0.24	U	
98-82-8	Isopropylbenzene	ND	1.4	0.15	U	
99-87-6	p-Isopropyltoluene	ND	1.4	0.15	U	
91-20-3	Naphthalene	ND	5.6	0.90	U	
107-13-1	Acrylonitrile	ND	5.6	1.6	U	
103-65-1	n-Propylbenzene	ND	1.4	0.24	U	
87-61-6	1,2,3-Trichlorobenzene	ND	2.8	0.45	U	
120-82-1	1,2,4-Trichlorobenzene	ND	2.8	0.38	U	
108-67-8	1,3,5-Trimethylbenzene	ND	2.8	0.27	U	
95-63-6	1,2,4-Trimethylbenzene	ND	2.8	0.46	U	
123-91-1	1,4-Dioxane	ND	110	49.	U	
105-05-5	p-Diethylbenzene	ND	2.8	0.25	U	
622-96-8	p-Ethyltoluene	ND	2.8	0.53	U	
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.8	0.27	U	
60-29-7	Ethyl ether	ND	2.8	0.48	U	

KK 7/14/22

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: P. W. Grosser	**Lab Number**	: L2211451
Project Name	: TOT2101	**Project Number**	: TOT2101
Lab ID	: L2211451-02	**Date Collected**	: 03/01/22 16:35
Client ID	: SB007 5-7	**Date Received**	: 03/04/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	**Date Analyzed**	: 03/10/22 20:54
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: JC
Lab File ID	: V04220310N07	**Instrument ID**	: VOA104
Sample Amount	: 4.1 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 87
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg				
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**	
110-57-6	trans-1,4-Dichloro-2-butene	ND	7.0	2.0	U	UJ

KK 7/14/22

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2211451
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2211451-02	Date Collected	: 03/01/22 16:35
Client ID	: SB007 5-7	Date Received	: 03/04/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/20/22 16:25
Sample Matrix	: SOIL	Date Extracted	: 03/13/22
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 11451-02	Analyst	: CMM
Sample Amount	: 30.86 g	Instrument ID	: JULIET
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 87
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier	
83-32-9	Acenaphthene	ND	150	19.	U	U
120-82-1	1,2,4-Trichlorobenzene	ND	190	21.	U	
118-74-1	Hexachlorobenzene	ND	110	21.	U	
111-44-4	Bis(2-chloroethyl)ether	ND	170	25.	U	
91-58-7	2-Chloronaphthalene	ND	190	18.	U	
95-50-1	1,2-Dichlorobenzene	ND	190	33.	U	
541-73-1	1,3-Dichlorobenzene	ND	190	32.	U	
106-46-7	1,4-Dichlorobenzene	ND	190	32.	U	
91-94-1	3,3'-Dichlorobenzidine	ND	190	50.	U	
121-14-2	2,4-Dinitrotoluene	ND	190	37.	U	
606-20-2	2,6-Dinitrotoluene	ND	190	32.	U	
206-44-0	Fluoranthene	ND	110	21.	U	
7005-72-3	4-Chlorophenyl phenyl ether	ND	190	20.	U	
101-55-3	4-Bromophenyl phenyl ether	ND	190	28.	U	
108-60-1	Bis(2-chloroisopropyl)ether	ND	220	32.	U	
111-91-1	Bis(2-chloroethoxy)methane	ND	200	19.	U	
87-68-3	Hexachlorobutadiene	ND	190	27.	U	
77-47-4	Hexachlorocyclopentadiene	ND	530	170	U	UJ
67-72-1	Hexachloroethane	ND	150	30.	U	U
78-59-1	Isophorone	ND	170	24.	U	
91-20-3	Naphthalene	ND	190	23.	U	
98-95-3	Nitrobenzene	ND	170	28.	U	

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Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2211451
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2211451-02	Date Collected	: 03/01/22 16:35
Client ID	: SB007 5-7	Date Received	: 03/04/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/20/22 16:25
Sample Matrix	: SOIL	Date Extracted	: 03/13/22
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 11451-02	Analyst	: CMM
Sample Amount	: 30.86 g	Instrument ID	: JULIET
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 87
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
86-30-6	NDPA/DPA	ND	150	21.	U	U
621-64-7	n-Nitrosodi-n-propylamine	ND	190	29.	U	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	190	64.	U	
85-68-7	Butyl benzyl phthalate	ND	190	47.	U	
84-74-2	Di-n-butylphthalate	ND	190	35.	U	
117-84-0	Di-n-octylphthalate	ND	190	63.	U	
84-66-2	Diethyl phthalate	ND	190	17.	U	
131-11-3	Dimethyl phthalate	ND	190	39.	U	
56-55-3	Benzo(a)anthracene	ND	110	21.	U	
50-32-8	Benzo(a)pyrene	ND	150	45.	U	
205-99-2	Benzo(b)fluoranthene	ND	110	31.	U	
207-08-9	Benzo(k)fluoranthene	ND	110	30.	U	
218-01-9	Chrysene	ND	110	19.	U	
208-96-8	Acenaphthylene	ND	150	29.	U	
120-12-7	Anthracene	ND	110	36.	U	
191-24-2	Benzo(ghi)perylene	ND	150	22.	U	
86-73-7	Fluorene	ND	190	18.	U	
85-01-8	Phenanthrene	ND	110	23.	U	
53-70-3	Dibenzo(a,h)anthracene	ND	110	22.	U	UJ
193-39-5	Indeno(1,2,3-cd)pyrene	ND	150	26.	U	U
129-00-0	Pyrene	ND	110	18.	U	
92-52-4	Biphenyl	ND	420	24.	U	

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Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2211451
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2211451-02	Date Collected	: 03/01/22 16:35
Client ID	: SB007 5-7	Date Received	: 03/04/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/20/22 16:25
Sample Matrix	: SOIL	Date Extracted	: 03/13/22
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 11451-02	Analyst	: CMM
Sample Amount	: 30.86 g	Instrument ID	: JULIET
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 87
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
106-47-8	4-Chloroaniline	ND	190	34.	U	U
88-74-4	2-Nitroaniline	ND	190	36.	U	
99-09-2	3-Nitroaniline	ND	190	35.	U	
100-01-6	4-Nitroaniline	ND	190	77.	U	
132-64-9	Dibenzofuran	ND	190	18.	U	
91-57-6	2-Methylnaphthalene	ND	220	22.	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	19.	U	
98-86-2	Acetophenone	ND	190	23.	U	
88-06-2	2,4,6-Trichlorophenol	ND	110	35.	U	
59-50-7	p-Chloro-m-cresol	ND	190	28.	U	
95-57-8	2-Chlorophenol	ND	190	22.	U	
120-83-2	2,4-Dichlorophenol	ND	170	30.	U	
105-67-9	2,4-Dimethylphenol	ND	190	62.	U	
88-75-5	2-Nitrophenol	ND	400	70.	U	
100-02-7	4-Nitrophenol	ND	260	76.	U	
51-28-5	2,4-Dinitrophenol	ND	890	87.	U	
534-52-1	4,6-Dinitro-o-cresol	ND	480	89.	U	
87-86-5	Pentachlorophenol	ND	150	41.	U	
108-95-2	Phenol	ND	190	28.	U	
95-48-7	2-Methylphenol	ND	190	29.	U	
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	270	29.	U	
95-95-4	2,4,5-Trichlorophenol	ND	190	36.	U	

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Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2211451
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2211451-02	Date Collected	: 03/01/22 16:35
Client ID	: SB007 5-7	Date Received	: 03/04/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/20/22 16:25
Sample Matrix	: SOIL	Date Extracted	: 03/13/22
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 11451-02	Analyst	: CMM
Sample Amount	: 30.86 g	Instrument ID	: JULIET
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 87
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
65-85-0	Benzoic Acid	ND	600	190	U	U
100-51-6	Benzyl Alcohol	ND	190	57.	U	↓
86-74-8	Carbazole	ND	190	18.	U	
123-91-1	1,4-Dioxane	ND	28	8.6	U	UJ

KK 7/14/22

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: P. W. Grosser	Lab Number	: L2211451
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2211451-02	Date Collected	: 03/01/22 16:35
Client ID	: SB007 5-7	Date Received	: 03/04/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/14/22 14:32
Sample Matrix	: SOIL	Date Extracted	: 03/13/22
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 11220314a-26	Analyst	: JAW
Sample Amount	: 15.73 g	Instrument ID	: PEST11
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: 87
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
319-86-8	Delta-BHC	ND	1.76	0.344	U	U
58-89-9	Lindane	ND	0.732	0.327	U	
319-84-6	Alpha-BHC	ND	0.732	0.208	U	
319-85-7	Beta-BHC	ND	1.76	0.666	U	
76-44-8	Heptachlor	ND	0.878	0.394	U	
309-00-2	Aldrin	ND	1.76	0.618	U	
1024-57-3	Heptachlor epoxide	ND	3.29	0.988	U	
72-20-8	Endrin	ND	0.732	0.300	U	
7421-93-4	Endrin aldehyde	ND	2.19	0.768	U	
53494-70-5	Endrin ketone	ND	1.76	0.452	U	
60-57-1	Dieldrin	ND	1.10	0.549	U	
72-55-9	4,4'-DDE	ND	1.76	0.406	U	
72-54-8	4,4'-DDD	ND	1.76	0.626	U	
50-29-3	4,4'-DDT	ND	3.29	1.41	U	
959-98-8	Endosulfan I	ND	1.76	0.415	U	
33213-65-9	Endosulfan II	ND	1.76	0.587	U	
1031-07-8	Endosulfan sulfate	ND	0.732	0.348	U	
72-43-5	Methoxychlor	ND	3.29	1.02	U	
8001-35-2	Toxaphene	ND	32.9	9.22	U	
5103-71-9	cis-Chlordane	ND	2.19	0.612	U	
5103-74-2	trans-Chlordane	ND	2.19	0.579	U	

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Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: P. W. Grosser	Lab Number	: L2211451
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2211451-02	Date Collected	: 03/01/22 16:35
Client ID	: SB007 5-7	Date Received	: 03/04/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/14/22 14:32
Sample Matrix	: SOIL	Date Extracted	: 03/13/22
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 11220314a-26	Analyst	: JAW
Sample Amount	: 15.73 g	Instrument ID	: PEST11
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: 87
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
57-74-9	Chlordane	ND	14.6	5.82	U	U

KK 7/14/22

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: P. W. Grosser	Lab Number	: L2211451
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2211451-02	Date Collected	: 03/01/22 16:35
Client ID	: SB007 5-7	Date Received	: 03/04/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/18/22 20:13
Sample Matrix	: SOIL	Date Extracted	: 03/17/22
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: 23220318a-22	Analyst	: JWL
Sample Amount	: 15.31 g	Instrument ID	: PEST23
Extraction Method	: EPA 3546	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: 87
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
12674-11-2	Aroclor 1016	ND	37.6	3.34	U
11104-28-2	Aroclor 1221	ND	37.6	3.76	U
11141-16-5	Aroclor 1232	ND	37.6	7.97	U
53469-21-9	Aroclor 1242	ND	37.6	5.06	U
12672-29-6	Aroclor 1248	ND	37.6	5.64	U
11097-69-1	Aroclor 1254	ND	37.6	4.11	U
11096-82-5	Aroclor 1260	ND	37.6	6.94	U
37324-23-5	Aroclor 1262	ND	37.6	4.77	U
11100-14-4	Aroclor 1268	ND	37.6	3.89	U
1336-36-3	PCBs, Total	ND	37.6	3.34	U

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KK 7/14/22

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: P. W. Grosser	Lab Number	: L2211451
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2211451-02	Date Collected	: 03/01/22 16:35
Client ID	: SB007 5-7	Date Received	: 03/04/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/16/22 10:44
Sample Matrix	: SOIL	Date Extracted	: 03/14/22
Analytical Method	: 1,8151A	Dilution Factor	: 1
Lab File ID	: 17220316a-12	Analyst	: EJL
Sample Amount	: 30.42 g	Instrument ID	: PEST17
Extraction Method	: EPA 8151A	GC Column	: STX-CLP1
Extract Volume	: 10000 uL	%Solids	: 87
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
94-75-7	2,4-D	ND	189	11.9	U	U
93-76-5	2,4,5-T	ND	189	5.86	U	UJ
93-72-1	2,4,5-TP (Silvex)	ND	189	5.03	U	U

KK 7/14/22

LDC #: 54136B1a
SDG #: L2211451
Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET
Category B

Date: 6/7/22
Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: GC/MS Volatiles (EPA SW-846 Method 8260C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A SW	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	SW / A	% RSD ≤ 20, r² ICV ≤ 30
IV.	Continuing calibration	SW	CCV ≤ 20
V.	Laboratory Blanks	A	
VI.	Field blanks	N	
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	A	LCS/D
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Target analyte quantitation	A	Result < RL >MDL = Jdet
XIII.	Target analyte identification	A	
XIV.	System performance	A	
XV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SB007 5-7	L2211451-02	Soil	03/01/22
2				
3				
4				
5				
6				
7				
8				
9				

Notes:

	WG1614496-5 Blank						

LDC #: 54136131a

VALIDATION FINDINGS CHECKLIST

Reviewer: FT

Method: Volatiles (EPA SW 846 Method 8260 C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	~~✓~~	✓		
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%, 15/30% and relative response factors (RRF) within method criteria?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	~~✓~~	✓		
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20% 30%?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 20% and relative response factors (RRF) within method criteria?		✓		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation findings worksheet.		✓		
VI. Field blanks				
Were field blanks were identified in this SDG?		✓		
Were target analytes detected in the field blanks?			✓	
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	

Validation Area	Yes	No	NA	Findings/Comments
IX. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XI. Internal standards				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XII. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?	✓			
Were target analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Target analyte identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did analyte spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?			✓	
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO.1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methyl cyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

LDC #: 54136B1a

VALIDATION FINDINGS WORKSHEET
Technical Holding Times

Reviewer: FT

All circled dates have exceeded the technical holding times.
(Y) N N/A Were all cooler temperatures within validation criteria?
Y N (N/A) Were air bubbles > 1/4 inch or was headspace present in the vials?

METHOD : GC/MS VOA (EPA SW 846 Method 8260)

Sample ID	Matrix	Preserved	Sampling Date	Extraction date	Analysis date	Total # of Days	Qualifier
1	SOIL		3/1/22		3/10/22		J/UJ/P (ND+DET)
	#1	Beyond the		48 hrs	holding	time	
			for	freezing			

TECHNICAL HOLDING TIME CRITERIA

Water unpreserved:	Aromatic within 7 days, non-aromatic within 14 days of sample collection.
Water preserved:	Within 14 days of sample collection.
Soil:	Within 14 days of sample collection.

LDC #: 54136B4a

VALIDATION FINDINGS WORKSHEET
Initial Calibration

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Did the laboratory perform a 5 point calibration prior to sample analysis?
Y N N/A Were percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?
Y N N/A Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation?_____
Y N N/A Did the initial calibration meet the acceptance criteria?
Y N N/A Were all %RSDs and RRFs within the validation criteria of ≤30/15, 20, 15 RSD% and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %RSD (Limit: _____)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	12/14/21	ICAL	HHHH		0.00198 (≥0.005)	All	J/UJ/A (ND)

LDC #: 54136 B/a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y (N) N/A Were all %D and RRFs within the validation criteria of ≤20 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤20.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	3/10/22	CCV	JJ	34.6		All	J/UJ/A
	1133		Ethyl Ether	24.5		↓	↓
			G	33.8			
			E	20.3			
			K	20.9			
			HHHH		0.00199 (≥0.005)		

CONCAL.wpd

LDC #: 54136B/a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 Q

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the target analytes identified below using the following calculations:

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of target analyte
C_x = Concentration of target analyte
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Reported RRF (40 std)	Recalculated RRF (40 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL VOA 104	12/14/21	C	0.382	0.382	0.368	0.368	5.74	5.74
			CC	0.952	0.952	0.910	0.910	4.84	4.84
			~~AA~~ BB	0.670	0.670	0.665	0.665	6.57	6.57
2									
3									
4									

Comments: _____

LDC #: 54136B1a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where:
ave. RRF = initial calibration average RRF
A_x = Area of target analyte
C_x = Concentration of target analyte
RRF = continuing calibration RRF
A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ccv	3/10/22 1733	C	0.368	0.323	0.323	12.2	12.2
			CC	0.910	0.783	0.783	14	14
			BB	0.665	0.598	0.598	10.1	10.1
2								
3								
4								

LDC #: 54136 B/a

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 Ⓒ)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #2

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane	20.0	22.061	110	110	0
1,2-Dichloroethane-d4	↓	23.083	115	115	↓
Toluene-d8		19.179	96	96	
Bromofluorobenzene		20.461	102	102	

Comments: _____

LDC #: 54136 13 1a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 9

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the target analytes identified below using the following calculation:

% Recovery = 100 * SSC/SA

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC)

Where: SSC = Spiked sample concentration
SA = Spike added
LCSC = Laboratory control sample concentration
LCSDC = Laboratory control sample duplicate concentration

LCS ID: WG1614496-3/4

Compound	Spike Added (ug/Kg)		Spiked Sample Concentration (ug/Kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
1,1-Dichloroethene	40	40	33 (33.160)	33 (33.455)	83	83	84	84	1	0.886
Trichloroethene	↓	↓	34 (34.267)	34 (34.402)	86	86	86	86	0	0.3932
Benzene			33 (33.070)	34 (34.134)	83	83	85	85	2	3.166
Toluene			34 (34.419)	34 (34.356)	86	86	86	86	0	0.145
Chlorobenzene			37 (36.013)	37 (36.494)	92	92	91	91	1	0.331

Comments: _____

LDC #: 54136B1a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 C)

The concentration of the sample was calculated for the target analytes identified below using the following calculation:

$$\text{Concentration} = \frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the target analyte to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. #1, Acetone

$$\text{Conc.} = \frac{\left(\frac{5359}{2300337} - 0.004351\right)(20)(5)}{(0.047159)(4.1)(0.87)}$$

$$= 11.26 \text{ ug/kg}$$

VOA A104 %S = 87 4.1g

#	Sample ID	Compound	Reported Concentration (ug/kg)	Calculated Concentration (ug/kg)	Qualification
	#1	F	11	11.26	-

LDC #: 54136B2a
SDG #: L2211451
Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET
Category B

Date: 6/7/22
Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS Semivolatiles (EPA SW-846 Method 8270D)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A / A	%RSD ≤ 20, r² ICV ≤ 30
IV.	Continuing calibration	SW	CCV ≤ 20
V.	Laboratory Blanks	A	
VI.	Field blanks	N	
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	N	CS
IX.	Laboratory control samples	A	LCS 1D
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Target analyte quantitation	A	ND Result < RL > MDL
XIII.	Target analyte identification	A	
XIV.	System performance	A	
XV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SB007 5-7	L2211451-02	Soil	03/01/22
2				
3				
4				
5				
6				
7				
8				
9				

Notes:

	WG1615016 - Blank/L						

LDC #: 54136B2a

VALIDATION FINDINGS CHECKLIST

Method: Semivolatiles (EPA SW 846 Method 8270 D)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20% 15/30% and relative response factors (RRF) within method criteria?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20% 30%?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 20% and relative response factors (RRF) within method criteria?		✓		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the blanks validation findings worksheet.		✓		
VI. Field blanks				
Were field blanks were identified in this SDG?		✓		
Were target analytes detected in the field blanks?			✓	
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any percent recoveries (%R) was less than 10%, was a reanalysis performed to confirm %R ?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	

Validation Area	Yes	No	NA	Findings/Comments
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
IX. Laboratory control samples				
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XI. Internal standards				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XII. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Target analyte identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

A. Phenol	CC. Dimethylphthalate	EEE. Bis(2-ethylhexyl)phthalate	GGGG. C30-Hopane	I1. Methyl methanesulfonate
B. Bis (2-chloroethyl) ether	DD. Acenaphthylene	FFF. Di-n-octylphthalate	HHHH. 1-Methylphenanthrene	J1. Ethyl methanesulfonate
C. 2-Chlorophenol	EE. 2,6-Dinitrotoluene	GGG. Benzo(b)fluoranthene	IIII. 1,4-Dioxane	K1. o,o',o''-Triethylphosphorothioate
D. 1,3-Dichlorobenzene	FF. 3-Nitroaniline	HHH. Benzo(k)fluoranthene	JJJJ. Acetophenone	L1. n-Phenylene diamine
E. 1,4-Dichlorobenzene	GG. Acenaphthene	III. Benzo(a)pyrene	KKKK. Atrazine	M1. 1,4-Naphthoquinone
F. 1,2-Dichlorobenzene	HH. 2,4-Dinitrophenol	JJJ. Indeno(1,2,3-cd)pyrene	LLLL. Benzaldehyde	N1. N-Nitro-o-toluidine
G. 2-Methylphenol	II. 4-Nitrophenol	KKK. Dibenz(a,h)anthracene	MMMM. Caprolactam	O1. 1,3,5-Trinitrobenzene
H. 2,2'-Oxybis(1-chloropropane)	JJ. Dibenzofuran	LLL. Benzo(g,h,i)perylene	NNNN. 2,6-Dichlorophenol	P1. Pentachlorobenzene
I. 4-Methylphenol	KK. 2,4-Dinitrotoluene	MMM. Bis(2-Chloroisopropyl)ether	OOOO. 1,2-Diphenylhydrazine	Q1. 4-Aminobiphenyl
J. N-Nitroso-di-n-propylamine	LL. Diethylphthalate	NNN. Aniline	PPPP. 3-Methylphenol	R1. 2-Naphthylamine
K. Hexachloroethane	MM. 4-Chlorophenyl-phenyl ether	OOO. N-Nitrosodimethylamine	QQQQ. 3&4-Methylphenol	S1. Triphenylene
L. Nitrobenzene	NN. Fluorene	PPP. Benzoic Acid	RRRR. 4-Dimethyldibenzothiophene (4MDT)	T1. Octachlorostyrene
M. Isophorone	OO. 4-Nitroaniline	QQQ. Benzyl alcohol	SSSS. 2/3-Dimethyldibenzothiophene (4MDT)	U1. Famphur
N. 2-Nitrophenol	PP. 4,6-Dinitro-2-methylphenol	RRR. Pyridine	TTTT. 1-Methyldibenzothiophene (1MDT)	V1. 1,4-phenylenediamine
O. 2,4-Dimethylphenol	QQ. N-Nitrosodiphenylamine	SSS. Benzidine	UUUU.. 2,3,4,6-Tetrachlorophenol	W1. Methapyrilene
P. Bis(2-chloroethoxy)methane	RR. 4-Bromophenyl-phenylether	TTT. 1-Methylnaphthalene	VVVV. 1,2,4,5-Tetrachlorobenzene	X1. Pentachloroethane
Q. 2,4-Dichlorophenol	SS. Hexachlorobenzene	UUU.Benzo(b)thiophene	WWWW.. 2-Picoline	Y1. 3,3'-Dimethylbenzidine
R. 1,2,4-Trichlorobenzene	TT. Pentachlorophenol	VVV.Benzonaphthothiophene	XXXX. 3-Methylcholanthrene	Z1. o-Toluidine
S. Naphthalene	UU. Phenanthrene	WWW.Benzo(e)pyrene	YYYY. a,a-Dimethylphenethylamine	A2. 1-Naphthylamine
T. 4-Chloroaniline	VV. Anthracene	XXX. 2,6-Dimethylnaphthalene	ZZZZ. Hexachloropropene	B2. 4-Aminobiphenyl
U. Hexachlorobutadiene	WW. Carbazole	YYY. 2,3,5-Trimethylnaphthalene	A1. N-Nitrosodiethylamine	C2. 4-Nitroquinoline-1-oxide
V. 4-Chloro-3-methylphenol	XX. Di-n-butylphthalate	ZZZ. Perylene	B1. N-Nitrosodi-n-butylamine	D2. Hexachloropene
W. 2-Methylnaphthalene	YY. Fluoranthene	AAAA. Dibenzothiophene	C1. N-Nitrosomethylethylamine	E2. Bis (2-chloro-1-methylethyl) ether
X. Hexachlorocyclopentadiene	ZZ. Pyrene	BBBB. Benzo(a)fluoranthene	D1. N-Nitrosomorpholine	F2. Bifenthrin
Y. 2,4,6-Trichlorophenol	AAA. Butylbenzylphthalate	CCCC. Benzo(b)fluorene	E1. N-Nitrosopyrrolidine	G2. Cyfluthrin
Z. 2,4,5-Trichlorophenol	BBB. 3,3'-Dichlorobenzidine	DDDD. cis/trans-Decalin	F1. Phenacetin	H2. Cypermethrin
AA. 2-Chloronaphthalene	CCC. Benzo(a)anthracene	EEEE. 1,1'-Biphenyl	G1. 2-Acetylaminofluorene	I2. Permethrin (cis/trans)
BB. 2-Nitroaniline	DDD. Chrysene	FFFF. Retene	H1. Pronamide	J2. 5-Nitro-o-toluidine

LDC #: 54136B2a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Reviewer: FT

METHOD: GC/MS SVOA(EPA Method 8270 D)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours of sample analysis for each instrument?

Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?

Y N N/A Were all %D and RRFs within the validation criteria of ≤20 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤20.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	3/16/22 0242 AM	CCV	X	35.1		WG916150 16-BLANK	J/UJ/A
			II	23.3		↓	
	3/20/22 0848 AM	CCV	RRR	23.9		all - MB	J/UJ/A ND
			X	34.6			
			KKK	20.3			
	3/20/22 0936 AM	CCV	1111	25.7		all - MB	J/UJ/A ND

LDC #: 54136B2a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)
The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the target analytes identified below using the following calculations:

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of target analyte
C_x = Concentration of target analyte
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Reported RRF (20 ug/mL std)	Recalculated RRF (20 ug/mL std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL Juliet	1/25/22	A (1st IS)	1.345	1.345	1.383	1.383	5.59	5.59
			S (2nd IS)	0.990	0.990	0.982	0.982	4.86	4.86
			GG (3rd IS)	1.095	1.095	1.109	1.109	8.08	8.08
			UU (4th IS)	1.068	1.068	1.026	1.026	6.44	6.44
			PDD (5th IS)	1.126	1.126	1.175	1.175	7.39	7.39
			JJJ (6th IS)	1.059	1.059	1.046	1.046	3.66	3.66
2			(1st IS)						
			(2nd IS)						
			(3rd IS)						
			(4th IS)						
			(5th IS)						
			(6th IS)						
3			(1st IS)						
			(2nd IS)						
			(3rd IS)						
			(4th IS)						
			(5th IS)						
			(6th IS)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136132a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)
The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
A_x = Area of target analyte
C_x = Concentration of target analyte
RRF = continuing calibration RRF
A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ccv Juliet	3/10/22	A (1st IS)	1.383	1.425	1.425	3.0	3.0
			S (2nd IS)	0.982	0.989	0.989	0.7	0.7
			GG (3rd IS)	1.109	1.044	1.044	5.9	5.9
			HH (4th IS)	1.026	1.006	1.006	1.9	1.9
			DDD (5th IS)	1.125	1.120	1.120	0.4	0.4
			JJJ (6th IS)	1.046	1.187	1.187	13.5	13.5
2	ccv Juliet	3/16/22	(1st IS)		1.366	1.366	1.2	1.2
			(2nd IS)		0.888	0.888	9.6	9.6
			(3rd IS)		0.938	0.938	15.4	15.4
			(4th IS)		0.926	0.926	9.7	9.7
			(5th IS)		0.994	0.994	11.6	11.6
			(6th IS)		1.063	1.063	1.6	X 1.6
3			(1st IS)					
			(2nd IS)					
			(3rd IS)					
			(4th IS)					
			(5th IS)					
			(6th IS)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 34136B2a

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270 D)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	25.0	16.384	66	66	0
2-Fluorobiphenyl	↓	19.731	79	79	
Terphenyl-d14	↓	16.825	67	67	
Phenol-d5	50.0	38.761	78	78	
2-Fluorophenol	↓	37.283	75	75	
2,4,6-Tribromophenol	↓	46.375	93	93	

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					

LDC #: 54136B29

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

$$SSC = \frac{(Ax)(C_{IS})(Fv)(Df)}{(A_{IS})(RRF)(Vs \text{ or } Ws)(\%S/100)}$$

%Recovery = (SSC/SA)*100

RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where: A_X= Area of the target analyte; A_{IS}= Area for the specific internal standard; C_{IS} = Concentration of internal standard; Fv =Final volume of extract; Df= Dilution factor; RRF= Average relative response factor of the target analyte; Ws= Initial weight of the sample; %S= Percent Solid; SSC = Spiked sample concentration; LCS = Laboratory control sample; LCSD = Laboratory control sample duplicate; Vs= Initial volume of the sample

LCS/LCSD samples: WG1615016-2/3

Compound	Spike Added (ug/Kg)		Spike Concentration (ug/Kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol	40.0	40.0	35.654	31.416	89	89	78	78	13	11
N-Nitroso-di-n-propylamine	↓	↓	31.269	27.603	78	78	69	69	12	12
4-Chloro-3-methylphenol	↓	↓	40.031	34.579	100	100	86	86	15	15
Acenaphthene	40 ~~1300~~	40.0	34.749	30.321	87	87	76	76	13	14
Pentachlorophenol	↓	↓	38.648	32.710	97	97	82	82	17	17
Pyrene	↓	↓	36.307	31.007	91	91	78	78	15	16

LDC #: 54136B2a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

$$\text{Concentration} = \frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the target analyte to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

V_i = Volume of extract injected in microliters (ul)

V_t = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. W G1615016, LCS Pheno 1

Conc. = $\frac{\text{FT } 23 \text{ } 6643 \text{ } (40.0)}{179758}$ =

#	Sample ID	Target Analyte	Reported Concentration (ug/Kg)	Calculated Concentration ( )	Qualification
	LCS	Pheno 1	35.654		

LDC #: 54136B3a
SDG #: L2211451
Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET
Category B

Date: 6/7/22
Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: GC Organochlorine Pesticides (EPA SW-846 Method 8081B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	GC Instrument Performance Check	A	
III.	Initial calibration/ICV	A/A	%D/%RSD ≤ 20, r² ICV ≤ 20
IV.	Continuing calibration	A	CCV ≤ 20
V.	Laboratory Blanks	A	
VI.	Field blanks	N	
VII.	Surrogate spikes 1/5	A/A	
VIII.	Matrix spike/Matrix spike duplicates	N	CS
IX.	Laboratory control samples	A	LCS/D
X.	Field duplicates	N	
XI.	Target analyte quantitation	A	NO Result < RL > MDL
XII.	Target analyte identification	A	
XIII.	System Performance	A	
XIV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SB007 5-7	L2211451-02	Soil	03/01/22
2				
3				
4				
5				
6				
7				
8				
9				
10				

Notes:

	WG1615018-1 Blank						

Method: Pesticides (EPA SW 846 Method 8081B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/ECD Instrument performance check				
Was the instrument performance found to be acceptable?	✓			
Were Evaluation mix standards analyzed prior to the initial calibration and at beginning of each 12-hour shift?	✓			
Were endrin and 4,4'-DDT breakdowns ≤ 15% for individual breakdown in the Evaluation mix standards?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
Were the RT windows properly established?	✓			
IIIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
VI. Field blanks				
Were field blanks identified in this SDG?		✓		
Were target compounds detected in the field blanks?			✓	

Validation Area	Yes	No	NA	Findings/Comments
VII. ***Surrogate spikes/Internal Standards***				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any percent recovery (%R) was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
Were internal standard area counts within ± 50% of the average area calculated during calibration?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
IX. Laboratory control samples				
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target compounds detected in the field duplicates?			✓	
XI. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions, dry weight factors, and clean-up activities applicable to level IV validation?	✓			
Were relative percent difference (RPD) of the results between two columns ≤ 40%?	✓			
XII. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:_____

LDC #: 54136B3a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC ✓ HPLC ____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors 7 - 22

#	Standard ID	Calibration Date	Compound	Reported CF (5.0 std)	Recalculated CF (5.0 std)	Reported CF (initial)	Recalculated CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL PEST 11	1/28/22	Beta BHC	0.673	0.673	0.703	0.703	4.7 ✓	4.78
			4,4-DDT	0.974	0.974	1.048	1.048	10.57	10.57
			(CLP1)						
2			Beta BHC	0.575	0.575	0.562	0.562	7.85	7.85
			4,4'-DDT	0.777	0.777	0.843	0.843	13.01	13.01
			CLP2.						
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136B3a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF -CF)/ave.CF

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ICAL)/ CCV Conc.	Reported CF/ Conc. CCV	Recalculated CF/ Conc. CCV	Reported %D	Recalculated %D
1	CCV	3/14/22 0917	Beta BHC (LPI)	0.703	0.800	0.800	13.8	13.8
			4,4'-DDT	1.048	0.915	0.915	12.7	12.7
			CLP2	0.562	0.589	0.589	4.8	4.8
			↓	0.843	1.00	1.00	18.6	18.6
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136B3a

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX1	CLP1	50.0	23.040	46	46	0
TCMX2	CLP2	↓	31.940	64	64	↓
DCB1	CLP1		22.201	44	44	
DCB2	CLP2		25.470	51	51	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C`	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 54136B3e

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: ✓ GC ___HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC/SA)
RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where SSC = Spiked sample concentration; SA = Spike added
LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: WG161501B - 2/3 (LCSD)

Compound	Spike Added (ug/kg)		Spike Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
gamma BHC	50.0	50.0	~~40.325~~	33.813	~~68~~ 81	81	68	68	17	18
4,4'-DDT	↓	↓	46.871	38.347	94	94	77	77	20	20

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136B3c

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: ___of___
Reviewer: FT

METHOD: ✓ GC ___ HPLC _ GCMS

(Y) N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target analytes within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. WG161508-2 (LCS) Compound Name gamma BHC

Concentration = $\frac{\left(\frac{1241 \times 10^6}{494 \times 10^6} + 0.014535\right)(25)}{(1.703891)}$ =

= 40.319 ug/kg

#	Sample ID	Compound	Reported Concentrations (ug/kg)	Recalculated Results Concentrations (ug/kg)	Qualifications
	LCS	gamma BHC	40.325	40.319	

Comments: _____

LDC #: 54136B3b

SDG #: L2211451

Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET

Category B

Date: 6/7/22

Page: 1 of 1

Reviewer: FT

2nd Reviewer: KK

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Initial calibration/ICV	A / A	%D/ICV ≤ 20
III.	Continuing calibration	A	CCV ≤ 20
IV.	Laboratory Blanks	A	
V.	Field blanks	N	
VI.	Surrogate spikes IS	A/A	
VII.	Matrix spike/Matrix spike duplicates	N	CS
VIII.	Laboratory control samples	A	LCS ID
IX.	Field duplicates	N	1
X.	Target analyte quantitation	A	No Result < RL > MDL
XI.	Target analyte identification	A	
XII	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SB007 5-7	L2211451-02	Soil	03/01/22
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

Notes:

	WG1616757-1 Blank/L						

LDC #: 54136B36 **VALIDATION FINDINGS CHECKLIST** Page: 1 of 2
Reviewer: FT

Method: ✓GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?			✓	
Were the RT windows properly established?	✓			
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
III. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
Were all the retention times within the acceptance windows?	✓			
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
V. Field Blanks				
Were field blanks identified in this SDG?		✓		
Were target analytes detected in the field blanks?			✓	
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed per analytical or extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			

Validation Area	Yes	No	NA	Findings/Comments
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
X. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target analyte identification				
Were the retention times of reported detects within the RT windows?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:_____

LDC #: 54136B3b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors -30

#	Standard ID	Calibration Date	Compound	Reported CF (1000 std)	Recalculated CF (1000 std)	Reported CF (initial)	Recalculated CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL PEST 23	12/1/21	1260-1 cup1	0.062	0.062	0.061	0.061	16.5	16.5
			1260-1 cup2	0.056	0.056	0.055	0.055	8.98	8.98
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136B36

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. CF -CF)/ave.CF

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of target analyte
C = Concentration of target analyte

#	Standard ID	Calibration Date	Target Analyte	Average CF(Ical)/ CCV Conc.	Reported CF/ Conc. CCV	Recalculated CF/ Conc. CCV	Reported %D	Recalculated %D
1	ccv	3/18/2015 1547	1260-1 cup1	0.061	0.056	0.056	8.2	8.2
			1260-1 cup2	0.055	0.057	0.057	3.6	3.6
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136B3b

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX 1	CLP1	500.0	349.887	70	70	0
TCMX 2	2	↓	398.250	80	80	
PCB 1	CLP1		385.039	77	77	↓
PCB 2	2		402.240	80	80	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C`	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 54136B36

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

%Recovery = 100 * (SSC/SA)
RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where SSC = Spiked sample concentration
LCS = Laboratory Control Sample

SA = Spike added
LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: WG916167 57-2/3 LCS 10

Compound	Spike Added (ug/kg)		Spike Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Aroclor 1260	198	203	128	139	65	65	69	69	6	6

Comments: _____

LDC #: 54136B3b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

METHOD: ✓ GC __ HPLC

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the target analyte to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the target analyte In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. WG161675-3 (LCS) Aroclor 1260

Concentration = $\frac{2015.988\ (1)}{15.79}$ =

= 127.67 ug/kg

#	Sample ID	Target analyte	Reported Concentrations (ug/kg)	Recalculated Results Concentrations (ug/kg)	Qualifications
	LCS	Aroclor 1260	128	127.67	
	1260-1	= $\frac{1023.7 \times 10^6\ (250.0)}{2031.3 \times 10^6\ (0.0606)}$ = 2080.276		1260-1	= 2080.276
				-2	2055.714
				-3	1921.155
				-4	2068.350
				-5	1954.447
					2015.988

Comments: _____

LDC #: 54136B5 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/7/22
SDG #: L2211451 Category B Page: 1 of 1
Laboratory: Alpha Analytical, Inc., Westborough, MA Reviewer: [illegible]
2nd Reviewer: KL

METHOD: GC Herbicides (EPA SW-846 Method 8151A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A /A	
II.	Initial calibration/ICV	A /A	%D/ICV ≤20
III.	Continuing calibration	SW	CCV ≤20
IV.	Laboratory Blanks	A	
V.	Field blanks	N	
VI.	Surrogate spikes 1/4	A /A	
VII.	Matrix spike/Matrix spike duplicates	N	LCS
VIII.	Laboratory control samples	A	LCS ID
IX.	Field duplicates	N	
X.	Target analyte quantitation	A	No Result < RL > MDL
XI.	Target analyte identification	A	
XII	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SB007 5-7	L2211451-02	Soil	03/01/22
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				

Notes:

	WG1615224-1 Blank						

2,4-D 2,4,5-T 2,4,5-TP(Silvex)

LDC #: 54136B5

VALIDATION FINDINGS CHECKLIST

Reviewer: FT

Method: ✓ GC __ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?			✓	
Were the RT windows properly established?	✓			
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
III. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%?		✓		
Were all the retention times within the acceptance windows?	✓			
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
V. Field Blanks				
Were field blanks identified in this SDG?	NA	✓		
Were target analytes detected in the field blanks?			✓	
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed per analytical or extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			

Validation Area	Yes	No	NA	Findings/Comments
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
X. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target analyte identification				
Were the retention times of reported detects within the RT windows?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: ___GC___HPLC

8310	8330	8151/8321	8141		8021B
A. Acenaphthene	A. HMX	A. 2,4-D	A. Dichlorvos	CC. Trichlorinate	V. Benzene
B. Acenaphthylene	B. RDX	B. 2,4-DB	B. Mevinphos	DD. Trifluralin	CC. Toluene
C. Anthracene	C. 1,3,5-Trinitrobenzene	C. 2,4,5-T	C. Demeton-O	EE. Def	EE. Ethyl Benzene
D. Benzo(a)anthracene	D. 1,3-Dinitrobenzene	D. 2,4,5-TP	D. Demeton-S	FF. Prowl	SSS. O-Xylene
E. Benzo(a)pyrene	E. Tetryl	E. Dinoseb	E. Ethoprop	GG. Ethion	RRR. MP-Xylene
F. Benzo(b)fluoranthene	F. Nitrobenzene	F. Dichlorprop	F. Naled	HH. Famphur	GG. Total Xylene
G. Benzo(g,h,i)perylene	G. 2.4.6-Trinitrotoluene	G. Dicamba	G. Sulfotep	II. Phosmet	
H. Benzo(k)fluoranthene	H. 4-Amino-2,6-dinitrotoluene	H. Dalapon	H. Phorate	JJ. Tetrachlorvinphos	
I. Chrysene	I. 2-Amino-4,6-dinitrotoluene	I. MCPP	I. Dimethoate	KK. Demeton (total)	
J. Dibenz(a,h)anthracene	J. 2,4-Dinitrotoluene	J. MCPA	J. Diazinon		
K. Fluoranthene	K. 2,6-Dinitrotoluene	K. Pentachlorophenol	K. Disulfoton		
L. Fluorene	L. 2-Nitrotoluene	L. 2,4,5-TP (silvex)	L. Parathion-methyl	**8315A**	
M. Indeno(1,2,3-cd)pyrene	M. 3-Nitrotoluene	M. Silvex	M. Ronnel	A. Formaldehyde	
N. Naphthalene	N. 4-Nitrotoluene	N. 2,4-Dichlorophenoxybutyric acid	N. Malathion	B. Acetaldehyde	
O. Phenanthrene	O. Nitroglycerin	O. 3,5-Dichlorobenzoic acid	O. Chlorpyrifos	C. Benzaldehyde	
P. Pyrene	P. Picric acid	P. Bentazon	P. Fenthion	D. Butyraldehyde	
Q.	Q. 2,4-Dinitrophenol	Q. Picloram	Q. Parathion-ethyl	C. Benzaldehyde	
R.	R. 3,5-Dinitroaniline		R. Trichlornate	D. Butyraldehyde	
S.	S. 2-Nitrophenol		S. Merphos		
	T. 4-Nitrophenol		T. Stirofos		
	U. Picramic acid		U. Tokuthion	**Organic acids**	
	V. PETN		V. Fensulfothion	A. Acetic acid	
	W. Hexahydro-1,3,5-trinitroso-1,3,5-triazine		W. Bolstar	B. Butyric acid	
	X. MNX		X. EPN	C. Lactic acid	
	Y. Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine		Y. Azinphos-methyl	D. Propionic acid	
	Z. DNX		Z. Coumaphos	E. Pyruvic acid	
	AA. TNX		AA. Parathion		
			BB. Trichloronate		

LDC #: 54136B5

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: FT

METHOD: ✓ **GC** __ **HPLC**

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
What type of continuing calibration calculation was performed? ___%D or ___%R
Y N N/A Were continuing calibration standards analyzed at the required frequencies?
Y N N/A Did the continuing calibration standards meet the %D / %R validation criteria of ≤20.0% / 80-120%?
Level IV Only
Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Detector/ Column	Compound	%D (Limit ≤ 20.0)	RT (limit)	Associated Samples	Qualifications
	3/16/22 0657	CCV	GP2	C	49.4		All	J/UJ/A (ND)

LDC #: 54136B5

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC _____ HPLC _____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (0.47 std)	Recalculated CF (0.47 std)	Reported CF (initial)	Recalculated CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL PEST17	2/25/21	2,4-D CLP1	0.188	0.188	0.201	0.201	9.29	9.29
			↓ CLP2	0.204	0.204	0.215	0.215	6.99	6.99
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136B5

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. CF -CF)/ave.CF

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of target analyte
C = Concentration of target analyte

1870

#	Standard ID	Calibration Date	Target Analyte	Average CF(Ical)/ CCV Conc.	Reported CF/ Conc. CCV	Recalculated CF/ Conc. CCV	Reported %D	Recalculated %D
1	CCV	3/16/22 0657	2,4-D CAP1	0.201	0.189	0.189	6.0	6.0
			2,4-D CAP2	0.215	0.225	0.225	4.7	4.7
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136B5

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #2

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
PCAΔ	cup1	~~0.5~~ 0.5	0.493	99	99	0
↓	cup2	~~0.5~~ 0.5	0.551	110	110	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C`	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 54136B5

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

%Recovery = 100 * (SSC/SA)
RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where SSC = Spiked sample concentration
LCS = Laboratory Control Sample

SA = Spike added
LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: WG615224-2/3 LCS ID

Compound	Spike Added (mg/L)		Spike Sample Concentration (mg/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
2,4-D	0.5	0.5	91	0.485	91	91	97	97	6	6
			0.456							
			(152 ug/kg)	157 ug/kg						

Comments: _____

LDC #: 54136B5

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the target analyte to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the target analyte In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. WG1615224-2(LCS) 2,4-D

Concentration = $\frac{(359.6 \times 10^6)(0.250)(10)(1000)}{(982.7 \times 10^6)(0.201)(30)}$ = 151.7 ug/kg

152 ug/kg

#	Sample ID	Target analyte	Reported Concentrations (mg/L)	Recalculated Results Concentrations (ug/kg)	Qualifications
	LCS	2,4-D	0.456 = 152 ug/kg	151.7	

Comments: _____

Site: 737 4th Ave, Brooklyn, NY
Laboratory: Alpha Analytical, Inc., Westborough, MA
Report No.: L2211451
Reviewer: An Le and Kevin Kha/Laboratory Data Consultants for P.W. Grosser Consulting
Date: July 7, 2022

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
SB007 5-7	L2211451-02	Metals, Wet Chemistry
SB007 5-7MS	L2211451-02MS	Wet Chemistry
SB007 5-7DUP	L2211451-02DUP	Wet Chemistry

Associated QC Samples(s):
Field/Trip Blanks: None Associated
Field Duplicate pair: None Associated

The above-listed soil sample was collected on March 1, 2022 and was analyzed for metals by SW-846 methods 6010D/7471B, cyanide by SW-846 method 9012B, hexavalent chromium by SW-846 method 7196A, and trivalent chromium by calculation method. The data validation was performed in accordance with the USEPA Region 2 *Standard Operating Procedure for the Evaluation of Metals for the Contract Laboratory Program,* SOP HW-3a/c, Revision 1 (September 2016), and the USEPA *Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review,* EPA 542-R-20-006 (November 2020), modified as necessary to accommodate the non-CLP methodologies used.

The inorganic data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness
- Holding Times and Sample Preservation
- Instrument Calibration
- Contract Required Quantitation Limit (CRQL) Standard Recoveries
- Blank Analysis Results
- Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Duplicate Results
- Laboratory Control Sample (LCS)
- Serial Dilution Results
- Field Duplicate Results
- Moisture Content
- Detection Limits Results
- Sample Quantitation Results

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

Instrument Calibration

All criteria were met.

CRQL Standard Recoveries

Metals

All criteria were met.

Blank Results

Metals

Analytes were detected below the reporting limits in the laboratory blank samples. The following table summarizes the contamination and validation actions taken.

Blank ID	Analyte	Level Detected	Action Level	Associated Samples
ICB/CCB	Arsenic	0.00320 mg/L	RL	SB007 5-7
	Beryllium	0.00070 mg/L	RL	
	Selenium	0.00290 mg/L	RL	

Blank Actions for analytes detected below the reporting limit (RL).
If the sample result is < RL, report the result as nondetect (U) at the RL.
If the sample result is > RL or nondetect, no action is required.
Blank Actions for analytes detected above the reporting limit or RL.
If the sample result is < RL and <action level; report the result as nondetect (U) at the RL.
If the sample result is > RL and < action level; report the result as nondetect (U) at the reported value.
If the sample result is > action level or nondetect, no action is required.

Qualified sample results are listed in the table below.

Sample	Analyte	Reported Level	Validation Action
SB007 5-7	Beryllium	0.289 mg/Kg	0.438U mg/Kg

These results can be used for project objectives as nondetect (U) which may have a minor impact on the data usability.

A field blank was not associated with this sample set. Validation action was not required on this basis.

Wet Chemistry

Contamination was not detected in the laboratory blank samples.

A field blank was not associated with this sample set. Validation action was not required on this basis.

ICP ICS Results

Metals

Analytes were within control limits in the ICSA and ICSAB analyses.

MS/MSD Results

Metals

MS/MSD analyses were not associated with this sample set. Validation action was not required on this basis.

Wet Chemistry

MS analyses were performed on sample SB007 5-7 for wet chemistry analyses. All criteria were met.

Laboratory Duplicate Results

Metals

Laboratory duplicates were not associated with this sample set. Validation action was not required on this basis.

Wet Chemistry

Laboratory duplicates were performed on sample SB007 5-7 for wet chemistry analyses. All criteria were met.

LCS Results

Metals

All criteria were met.

Wet Chemistry

The following table lists the LCS/LCSD percent recoveries (%R) outside of control limits in the wet chemistry analyses and the resulting validation actions.

LCS ID	Analyte	LCS %R (Limits)	LCS/D %R (Limits)	Affected Sample	Validation Action
LCS/LCSD	Cyanide	59 (80-120)	77 (80-120)	SB007 5-7	UJ nondetects

- Within control limits

The cyanide results may be biased low due to low LCS/LCSD percent recoveries. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Serial Dilution Results

Metals

A serial dilution analysis was not associated with this sample set. Validation action was not required on this basis.

Field Duplicate Results

A field duplicate pair was not associated with this sample set. Validation action was not required on this basis.

Moisture Content

All criteria were met.

Detection Limits Results

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the metals analyses. These results were estimated (J) by the laboratory.

No results were reported below the RL and above the MDL in the wet chemistry analyses.

Due to high target analyte levels or difficult sample matrix, select samples were analyzed at dilutions. The following table lists the sample dilutions which were performed and the results reported. RLs were elevated accordingly.

Sample	Metal Analyses Reported
SB007 5-7	2-fold dilution due to sample matrix and high target analyte levels for 6010D metals

Dilutions were not required for wet chemistry analyses.

Sample Quantitation Results

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Form 1
METALS

Client	: P. W. Grosser	**Lab Number**	: L2211451
Project Name	: TOT2101	**Project Number**	: TOT2101
Lab ID	: L2211451-02	**Date Collected**	: 03/01/22 16:35
Client ID	: SB007 5-7	**Date Received**	: 03/04/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	**Date Analyzed**	: 03/25/22 15:59
Sample Matrix	: SOIL	**Dilution Factor**	: 2
Analytical Method	: 1,6010D	**Analyst**	: MC
Lab File ID	: WG1619633.pdf	**Instrument ID**	: TRACE4
Sample Amount	: 1.313g	**%Solids**	: 87
Digestion Method	: EPA 3050B	**Date Digested**	: 03/15/22

		mg/kg				
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**	
7429-90-5	Aluminum, Total	4540	8.76	2.37		
7440-36-0	Antimony, Total	ND	4.38	0.333	U	U
7440-38-2	Arsenic, Total	3.14	0.876	0.182		
7440-39-3	Barium, Total	19.7	0.876	0.152		
7440-41-7	Beryllium, Total	0.289	0.438	0.029	J	0.438 U
7440-43-9	Cadmium, Total	0.114	0.876	0.086	J	J
7440-70-2	Calcium, Total	1410	8.76	3.07		
7440-47-3	Chromium, Total	7.80	0.876	0.084		
7440-48-4	Cobalt, Total	4.30	1.75	0.145		
7440-50-8	Copper, Total	8.04	0.876	0.226		
7439-89-6	Iron, Total	9650	4.38	0.791		
7439-92-1	Lead, Total	8.59	4.38	0.235		
7439-95-4	Magnesium, Total	1670	8.76	1.35		
7439-96-5	Manganese, Total	279	0.876	0.139		
7440-02-0	Nickel, Total	8.16	2.19	0.212		
7440-09-7	Potassium, Total	387	219	12.6		
7782-49-2	Selenium, Total	ND	1.75	0.226	U	U
7440-22-4	Silver, Total	ND	0.876	0.248	U	U
7440-23-5	Sodium, Total	127	175	2.76	J	J
7440-28-0	Thallium, Total	ND	1.75	0.276	U	U
7440-62-2	Vanadium, Total	12.6	0.876	0.178		
7440-66-6	Zinc, Total	24.8	4.38	0.257		

KK 7/14/22

Form 1
METALS

Client	: P. W. Grosser	Lab Number	: L2211451
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2211451-02	Date Collected	: 03/01/22 16:35
Client ID	: SB007 5-7	Date Received	: 03/04/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/19/22 15:21
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: ZK
Lab File ID	: WG1617502.pdf	Instrument ID	: NIC2
Sample Amount	: 0.357g	%Solids	: 87
Digestion Method	: EPA 7471B	Date Digested	: 03/15/22

		mg/kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7439-97-6	Mercury, Total	ND	0.081	0.053	U	U

KK 7/14/22

Form 1
WETCHEM

Client	: P. W. Grosser	Lab Number	: L2211451
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2211451-02	Date Collected	: 03/01/22 16:35
Client ID	: SB007 5-7	Date Received	: 03/04/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/11/22 09:37
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,9010C/9012B	Analyst	: CS
Lab File ID	: TCN031122-A	Instrument ID	: LACHAT6
Sample Amount	: 1.068g	%Solids	: 87
Digestion Method	:	Date Digested	: 03/10/22

		mg/kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
57-12-5	Cyanide, Total	ND	1.1	0.23	U	uJ

KK 7/14/22

Form 1
WETCHEM

Client	: P. W. Grosser	**Lab Number**	: L2211451
Project Name	: TOT2101	**Project Number**	: TOT2101
Lab ID	: L2211451-02	**Date Collected**	: 03/01/22 16:35
Client ID	: SB007 5-7	**Date Received**	: 03/04/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	**Date Analyzed**	: 03/18/22 10:50
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,7196A	**Analyst**	: PB
Lab File ID	: WG1616040.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	: 2.4585g	**%Solids**	: 87
Digestion Method	: EPA 3060A	**Date Digested**	: 03/17/22

		mg/kg				
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**	
18540-29-9	Chromium, Hexavalent	ND	0.920	0.184	U	U

KK 7/14/22

Form 1
METALS

Client	: P. W. Grosser	Lab Number	: L2211451
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2211451-02	Date Collected	: 03/01/22 16:35
Client ID	: SB007 5-7	Date Received	: 03/04/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/25/22 15:59
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 107,-	Analyst	:
Lab File ID	: --	Instrument ID	:
Sample Amount	:	%Solids	: 87
Digestion Method	:	Date Digested	:

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
16065-83-1	Chromium, Trivalent	7.8	0.92	0.92	

KK 7/14/22

LDC #: 54136B4b

SDG #: L2211451

Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET

Category B

Date: 6/30/22

Page: 1 of 1

Reviewer: ATV

2nd Reviewer: IAM

METHOD: Metals (EPA SW-846 Method 6010D/7471B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Instrument Calibration	A	
III.	ICP Interference Check Sample (ICS) Analysis	A	
IV.	Laboratory Blanks	SW	
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	non-client sample used.
VII.	Duplicate sample analysis	N	↓
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	LCS
X.	Field Duplicates	N	
XI.	Target Analyte Quantitation	A	MDL < sample < RL : Jdet
XII	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SB007 5-7 (2X 6010D high analyte, sample matrix)	L2211451-02	Soil	03/01/22
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Notes:

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
I. Technical holding times				
Were all technical holding times met?	✓			
Were all water samples preserved to a pH of <2.			✓	
II. ICP-MS Tune				
Were mass resolutions within 0.1 amu for all isotopes in the tuning solution?			✓	
Were %RSDs of isoptoes in the tuning solution ≤5%?			✓	
III. Calibration				
Were all instruments calibrated daily?	✓			
Were the proper standards used?	✓			
Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits?	✓			
Were the low level standard checks within 70-130%?			✓	not reported.
Were all initial calibration correlation coefficients within limits as specifed by the method?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks?		✓		
Was there contamination in the initial and continuing calibration blanks?	✓			
V. Interference Check Sample				
Were the interference check samples performed daily?	✓			
Were the AB solution recoveries within 80-120%?	✓			
VI. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)			✓	
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?			✓	
VII. Laboratory Control Samples				
SDG?	✓			

Were the LCS recoveries and RPDs (if applicable) within QC limits?	✓			
METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
VIII. Internal Standards				
Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits?			✓	
If the recoveries were outside the limits, was a reanalysis performed?			✓	
IX. Serial Dilution				
Were all percent differences <10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
X. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample dilutions?	✓			
Were all soil samples dry weight corrected?	✓			
XI. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	✓			
XII. Field Duplicates				
Were field duplicates identifed in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XIII. Field Blanks				
Were field blanks identified in this SDG?		✓		
Were target analytes detected in the field blanks?			✓	

LDC #: 54136B4b

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: ATV

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1	S	(Al) (Sb) (As) (Ba) (Be) (Cd) (Ca) (Cr) (Co) (Cu) (Fe) (Pb) (Mg) (Mn) (Hg) (Ni) (K) (Se) (Ag) (Na) (Tl) (V) (Zn) Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___

Comments: Mercury by CVAA if performed

LDC #: 54136B4b

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: NA
Sample Concentration units, unless otherwise noted: mg/kg Associated Samples: all

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (mg/L)	Maximum ICB/CCB[a] (mg/L)	Action Level	1								
As			0.00320										
Be			0.00070		0.289/0.438								
Se			0.00290										

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 54136B46

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found / True x 100 Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (~~ug/L~~ mg/L)	True (~~ug/L~~ mg/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
ICV	ICP (Initial calibration) 3/25e. 14:17	Ba	0.4991	0.500	100	100	Y
	ICP/MS (Initial calibration)						
ICV	CVAA (Initial calibration)	Hg	0.003138	0.00300	105	105	Y
CCV	ICP (Continuing calibration) 3/25e 16:57	Na	9.715	10.000	97	97	Y
	ICP/MS (Continuing calibration)						
CCV	CVAA (Continuing calibration) 3/19e 15:37	Hg	0.009891	0.0100	99	99	Y

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
	Mass Axis			± 0.1 AMU	NA	
	%RSD			≤ 5% RSD		

Comments:

LDC #: 54136B46

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result). True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration, D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L), SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	mg/kg Found / S / I (units)	mg/kg True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSA	ICP interference check	Al	248.1 mg/L	250.000 mg/L	99	99	Y
LCS	Laboratory control sample	Hg	19.317	18.9	102	102	Y
	Matrix spike		(SSR-SR)				
	Duplicate						
	Post digestion spike						
	ICP serial dilution						

Comments: _____

LDC #: 54136B4b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: ATV

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
(Y) N N/A Are all detection limits below the CRDL?

Detected analyte results for Mn were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation: #1

$3.179 \times (50/1.313) \times 2 \times 1/0.87 = 278.296$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	1	Mn	279	278.296	Y
	1	Hg	ND	ND (0.0297)	Y

Note:

LDC #: 54136B6 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/30/22
SDG #: L2211451 Category B Page: 1 of 1
Laboratory: Alpha Analytical, Inc., Westborough, MA Reviewer: ATV
2nd Reviewer: KMC

METHOD: (Analyte) Cyanide (EPA SW-846 Method 9012B), Hexavalent Chromium (EPA SW-846 Method 7196A), Trivalent Chromium (Calculation)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	A	
V	Field blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	A	2
VII.	Duplicate sample analysis	A	3
VIII.	Laboratory control samples	SW	LCS/LCSD
IX.	Field duplicates	N	
X.	Target Analyte Quantitation	A	none < RL
XI.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SB007 5-7	L2211451-02	Soil	03/01/22
2	SB007 5-7MS	L2211451-02MS	Soil	03/01/22
3	SB007 5-7DUP	L2211451-02DUP	Soil	03/01/22
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Notes:

METHOD: Inorganics				
Validation Area	**Yes**	**No**	**NA**	**Comments**
I. Technical holding times				
Were all technical holding times met?	✓			
II. Calibration				
Were all instruments calibrated at the required frequency?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verifications within the QC limits?	✓			
Were all initial calibration correlation coefficients within limits as specifed by the method?	✓			
Were balance checks performed as required?			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks?		✓		
Was there contamination in the initial and continuing calibration blanks?		✓		
IV. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)	✓			
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?	✓			
V. Laboratory Control Samples				
Was a LCS analyzed for each batch in the SDG?	✓			
Were the LCS recoveries and RPDs (if applicable) within QC limits?		✓		
X. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample dilutions?	✓			
Were all soil samples dry weight corrected?	✓			
XI. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	✓			

METHOD: Inorganics				
Validation Area	**Yes**	**No**	**NA**	**Comments**
XII. Field Duplicates				
Were field duplicates identifed in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XIII. Field Blanks				
Were field blanks identified in this SDG?		✓		
Were target analytes detected in the field blanks?			✓	

LDC #: 54136B6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: ATV

All circled methods are applicable to each sample.

Sample ID	Parameter
1	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk (CN) NH_3 TKN TOC (Cr6+) ClO_4 (Cr^{3+})
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
QC	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
3,2	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC (Cr6+) ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4

Comments: _____

LDC #: 54136B6

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Reviewer: ATL

METHOD: Inorganics, Method see cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a laboratory control sample (LCS) analyzed for each matrix in this SDG?

Y (N) N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	LCS/LCSD ID	Matrix	Analyte	LCS %R (limits)	LCSD %R (limits)	RPD (limits)	Associated Samples	Qualifications
	LCS/LCSD	S	CN	59 (80-120)	77 (80-120)		all	J/UJ/P (non-detect)

Comments:

LDC #: 54136B6

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Reviewer: ATV

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of Cr6+ was recalculated.Calibration date: 03/16/22

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found X 100 / True

Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution

True = concentration of each analyte in the ICV or CCV source

Type of analysis	Analyte	Standard	Conc. (mg/L)	Area	Recalculated r or r^2	Reported r or r^2	Acceptable (Y/N)
Initial calibration	Cr6+	s1	0	0.001	*0.9999*	1.0000	Y
		s2	0.01	0.008			
		s3	0.1	0.074			
		s4	0.5	0.351			
		s5	1	0.712			
CCV Calibration verification	Cr6+	FOUND 0.21878	TRUE 0.2000		109.4	109.4	Y
CCV Calibration verification	CN	0.09547	0.100		95.5	95.5	Y
CCV Calibration verification	CN	0.10258	0.100		102.6	102.6	Y

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136B6

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: ATL

METHOD: Inorganics, Method See cover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

%R = Found x 100 / True Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

RPD = |S-D| x 100 / (S+D)/2 Where, S = Original sample concentration
D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	mg/kg Found / S (units)	mg/kg True / D (units)	Recalculated %R / RPD	Reported %R / RPD	Acceptable (Y/N)
LCS	Laboratory control sample	CN	55.92899	95.3	59	59	Y
2	Matrix spike sample	Cr6+	(SSR-SR) 1128.197	1160	97	98	Y
3	Duplicate sample	Cr6+	ND	ND	NC	NC	Y

Comments: _____

LDC #: 54136BC

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: ATL

METHOD: Inorganics, Method See cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments?
(Y) N N/A Are all detection limits below the CRQL?

Compound (analyte) results for Cr^{3+} reported with a positive detect were recalculated and verified using the following equation:

Concentration = Recalculation: #1

$$Cr^{3+} = Cr - Cr^{6+}$$
$$= 7.8 - ND = 7.8$$

#	Sample ID	Analyte	Reported Concentration mg/kg	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	1	Cr^{6+}	ND	ND (0.057)	Y
	1	CN	ND	ND (0.141)	Y
	1	Cr^{3+}	7.8	7.8	Y

Note:

Site: 737 4th Ave, Brooklyn, NY
Laboratory: Alpha Analytical, Inc., Westborough, MA
Report No.: L2212858
Reviewer: Felomina Tanguilig and Kevin Kha/Laboratory Data Consultants for P.W. Grosser Consulting
Date: July 14, 2022

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
SV002	L2212858-02	VOC
IA002	L2212858-12	VOC (SIM)

Associated QC Samples(s):
Field/Trip Blanks: None Associated
Field Duplicate pair: None Associated

The above-listed air samples were collected on March 10, 2022 and were analyzed for volatile organic compounds (VOCs) by methods TO-15 and TO-15 in selected ion monitoring (SIM) mode. The data validation was performed in accordance with USEPA Region 2 *Analysis of Volatile Organic Compounds in Air Contained Canisters*, SOP HW-31, Revision 6 (September 2016) and the USEPA *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review,* EPA 540-R-20-005 (November 2020), modified as necessary to accommodate the non-CLP methodologies used.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Laboratory Duplicate Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Field Duplicate Results
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All technical holding time requirements were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

VOC

Initial calibration:

All criteria were met.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Standard ID	Compound	CC %D	Associated Samples		Validation Action
03/24/22	CCV	1,2,4-Trichlorobenzene	35.9	SV002	XX	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 30; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 1,2,4-trichlorobenzene result was estimated due to continuing calibration exceedance. The bias cannot be determined. The result can be used for project objectives as nondetect with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

VOC (SIM)

All criteria were met.

Blanks

Contamination was not detected in the method blanks.

A field blank was not associated with this sample set. Validation action was not required on this basis.

Surrogate Recoveries

All criteria were met.

Laboratory Duplicate Results

Laboratory duplicates were performed on an associated project sample for VOC analyses. All criteria were met.

LCS Results

VOC

The following table lists the LCS percent recoveries (%R) outside of control limits in the VOC analysis and the resulting validation actions.

LCS ID	Compound	LCS %R (Limits)	Affected Sample	Validation Action
WG1619485-3 LCS	1,2,4-Trichlorobenzene	136 (70-130)	SV002	None

Validation action was not required for 1,2,4-trichlorobenzene due to high LCS recovery as positive results only are affected and this compound was not detected in the associated sample.

VOC (SIM)

All criteria were met.

Internal Standards

All criteria were met.

Field Duplicate Results

A field duplicate pair was not associated with this sample set. Validation action was not required on this basis.

Quantitation Limits and Data Assessment

No results were reported below the reporting limit (RL) and above the method detection limit (MDL) in the VOC and VOC (SIM) analyses.

Due to high target compound levels or difficult sample matrix, select samples were analyzed at dilutions. The following table lists the sample dilutions which were performed and the results reported. RLs were elevated accordingly.

Sample	VOC Analysis Reported
SV002	11.72-fold dilution due to nature of sample matrix

Dilutions were not required for VOC (SIM) analysis.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Results Summary
Form 1
Volatile Organics in Air

Client	: P. W. Grosser	Lab Number	: L2212858
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212858-02D	Date Collected	: 03/10/22 16:05
Client ID	: SV002	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/25/22 00:56
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 11.72
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R1913607	Instrument ID	: AIRLAB19
Sample Amount	: 21.3 ml	GC Column	: RTX-1

		ppbV			ug/m3				
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8	Dichlorodifluoromethane	ND	2.34	--	ND	11.6	--	U	U
74-87-3	Chloromethane	ND	2.34	--	ND	4.83	--	U	
76-14-2	Freon-114	ND	2.34	--	ND	16.4	--	U	
75-01-4	Vinyl chloride	ND	2.34	--	ND	5.98	--	U	
106-99-0	1,3-Butadiene	ND	2.34	--	ND	5.18	--	U	
74-83-9	Bromomethane	ND	2.34	--	ND	9.09	--	U	
75-00-3	Chloroethane	ND	2.34	--	ND	6.17	--	U	
64-17-5	Ethanol	67.3	58.6	--	127	110	--		
593-60-2	Vinyl bromide	ND	2.34	--	ND	10.2	--	U	U
67-64-1	Acetone	1100	11.7	--	2610	27.8	--		
75-69-4	Trichlorofluoromethane	ND	2.34	--	ND	13.1	--	U	U
67-63-0	Isopropanol	11.7	5.86	--	28.8	14.4	--		
75-35-4	1,1-Dichloroethene	ND	2.34	--	ND	9.28	--	U	U
75-65-0	Tertiary butyl Alcohol	ND	5.86	--	ND	17.8	--	U	
75-09-2	Methylene chloride	ND	5.86	--	ND	20.4	--	U	
107-05-1	3-Chloropropene	ND	2.34	--	ND	7.32	--	U	
75-15-0	Carbon disulfide	ND	2.34	--	ND	7.29	--	U	
76-13-1	Freon-113	ND	2.34	--	ND	17.9	--	U	
156-60-5	trans-1,2-Dichloroethene	ND	2.34	--	ND	9.28	--	U	
75-34-3	1,1-Dichloroethane	ND	2.34	--	ND	9.47	--	U	
1634-04-4	Methyl tert butyl ether	ND	2.34	--	ND	8.44	--	U	
78-93-3	2-Butanone	1020	5.86	--	3010	17.3	--		
156-59-2	cis-1,2-Dichloroethene	ND	2.34	--	ND	9.28	--	U	U
141-78-6	Ethyl Acetate	ND	5.86	--	ND	21.1	--	U	U
67-66-3	Chloroform	13.8	2.34	--	67.4	11.4	--		
109-99-9	Tetrahydrofuran	ND	5.86	--	ND	17.3	--	U	U

KK 7/14/22

Results Summary
Form 1
Volatile Organics in Air

Client	: P. W. Grosser	Lab Number	: L2212858
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212858-02D	Date Collected	: 03/10/22 16:05
Client ID	: SV002	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/25/22 00:56
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 11.72
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R1913607	Instrument ID	: AIRLAB19
Sample Amount	: 21.3 ml	GC Column	: RTX-1

		ppbV			ug/m3				
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
107-06-2	1,2-Dichloroethane	ND	2.34	--	ND	9.47	--	U	u
110-54-3	n-Hexane	ND	2.34	--	ND	8.25	--	U	
71-55-6	1,1,1-Trichloroethane	ND	2.34	--	ND	12.8	--	U	
71-43-2	Benzene	ND	2.34	--	ND	7.48	--	U	
56-23-5	Carbon tetrachloride	ND	2.34	--	ND	14.7	--	U	
110-82-7	Cyclohexane	ND	2.34	--	ND	8.05	--	U	
78-87-5	1,2-Dichloropropane	ND	2.34	--	ND	10.8	--	U	
75-27-4	Bromodichloromethane	ND	2.34	--	ND	15.7	--	U	
123-91-1	1,4-Dioxane	ND	2.34	--	ND	8.43	--	U	
79-01-6	Trichloroethene	ND	2.34	--	ND	12.6	--	U	
540-84-1	2,2,4-Trimethylpentane	ND	2.34	--	ND	10.9	--	U	
142-82-5	Heptane	ND	2.34	--	ND	9.59	--	U	
10061-01-5	cis-1,3-Dichloropropene	ND	2.34	--	ND	10.6	--	U	
108-10-1	4-Methyl-2-pentanone	ND	5.86	--	ND	24.0	--	U	
10061-02-6	trans-1,3-Dichloropropene	ND	2.34	--	ND	10.6	--	U	
79-00-5	1,1,2-Trichloroethane	ND	2.34	--	ND	12.8	--	U	
108-88-3	Toluene	2.55	2.34	--	9.61	8.82	--		
591-78-6	2-Hexanone	24.3	2.34	--	99.6	9.59	--		
124-48-1	Dibromochloromethane	ND	2.34	--	ND	19.9	--	U	u
106-93-4	1,2-Dibromoethane	ND	2.34	--	ND	18.0	--	U	
127-18-4	Tetrachloroethene	ND	2.34	--	ND	15.9	--	U	
108-90-7	Chlorobenzene	ND	2.34	--	ND	10.8	--	U	
100-41-4	Ethylbenzene	ND	2.34	--	ND	10.2	--	U	
179601-23-1	p/m-Xylene	ND	4.69	--	ND	20.4	--	U	
75-25-2	Bromoform	ND	2.34	--	ND	24.2	--	U	
100-42-5	Styrene	ND	2.34	--	ND	9.96	--	U	

KK 7/14/22

Results Summary
Form 1
Volatile Organics in Air

Client	: P. W. Grosser	Lab Number	: L2212858
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212858-02D	Date Collected	: 03/10/22 16:05
Client ID	: SV002	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/25/22 00:56
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 11.72
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R1913607	Instrument ID	: AIRLAB19
Sample Amount	: 21.3 ml	GC Column	: RTX-1

		ppbV			ug/m3				
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.34	--	ND	16.1	--	U	U
95-47-6	o-Xylene	ND	2.34	--	ND	10.2	--	U	
622-96-8	4-Ethyltoluene	ND	2.34	--	ND	11.5	--	U	
108-67-8	1,3,5-Trimethylbenzene	ND	2.34	--	ND	11.5	--	U	
95-63-6	1,2,4-Trimethylbenzene	ND	2.34	--	ND	11.5	--	U	
100-44-7	Benzyl chloride	ND	2.34	--	ND	12.1	--	U	
541-73-1	1,3-Dichlorobenzene	ND	2.34	--	ND	14.1	--	U	
106-46-7	1,4-Dichlorobenzene	ND	2.34	--	ND	14.1	--	U	
95-50-1	1,2-Dichlorobenzene	ND	2.34	--	ND	14.1	--	U	↓
120-82-1	1,2,4-Trichlorobenzene	ND	2.34	--	ND	17.4	--	U	UJ
87-68-3	Hexachlorobutadiene	ND	2.34	--	ND	25.0	--	U	U

KK 7/14/22

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: P. W. Grosser	Lab Number	: L2212858
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212858-12	Date Collected	: 03/10/22 16:25
Client ID	: IA002	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/24/22 23:03
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: RY
Lab File ID	: R1913604_EV2	Instrument ID	: AIRLAB19
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3				
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U	
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U	
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U	
56-23-5	Carbon tetrachloride	0.078	0.020	--	0.491	0.126	--		
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U	U
127-18-4	Tetrachloroethene	0.083	0.020	--	0.563	0.136	--		

LDC #: 54136C48a **VALIDATION COMPLETENESS WORKSHEET** Date: 6/7/22
SDG #: L2212858 Category B Page: 1 of 1
Laboratory: Alpha Analytical, Inc., Westborough, MA Reviewer: [illegible]
2nd Reviewer: KLC

METHOD: GC/MS Volatiles (EPA Method TO-15)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/A	%RSD/ICV ≤ 30
IV.	Continuing calibration	SW	CCV ≤ 30
V.	Laboratory Blanks / canister check per batch	A	
VI.	Field blanks	N	
VII.	Surrogate spikes	N	
VIII.	Matrix spike/Matrix spike duplicates / DUP	N/A	L2212858-11 DUP
IX.	Laboratory control samples	SW	LCS
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Target analyte quantitation	A	No Result < RL > MDL
XIII.	Target analyte identification	A	
XIV.	System performance	A	
XV.	Leak Check Compounds	NA	
XVI.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SV002 11.72X	L2212858-02	Air	03/10/22
2				
3				
4				
5				
6				
7				
8				

Notes:

	WG1619485-4						

LDC #: 54136C4Ka

VALIDATION FINDINGS CHECKLIST

Reviewer: FT

Method: Volatiles (EPA Method TO-15)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was canister pressure criteria met?	✓			
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 24 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 30%?	✓			
IIIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after every ICAL for each instrument?	✓			
Were all percent differences (%D) ≤ 30%?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 24 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 30%?		✓		
V. Laboratory Blanks/Canister Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 24 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
Was a canister blank analyzed for every canister?	✓			
Was there contamination in the canister blanks?		✓		
VI. Field Blanks				
Were field blanks identified in this SDG?		✓		
Were target compounds detected in the field blanks?			✓	
VII. Surrogate spikes (Optional)				
Were all surrogate percent recoveries (%R) within QC limits?			✓	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VIII. Laboratory Duplicate				
Was a laboratory duplicate analyzed for this SDG?	✓		✓	
Were the relative percent differences (RPD) within the QC limits?	✓			

Validation Area	Yes	No	NA	Findings/Comments
IX. Laboratory control samples				
Was an LCS analyzed per analytical batch for this SDG?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target compounds detected in the field duplicates?			✓	
XI. Internal standards				
Were internal standard area counts within ± 40% from the associated calibration standard?	✓			
Were retention times within ± 20.0 seconds from the associated calibration standard?	✓			
XII. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions applicable to level IV validation?	✓			
XIII. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Leak check compounds				
Was a leak check compound used to evaluate sample integrity and included in the laboratory analyte list?	✓		✓	
Was the leak check compound detected in the samples? If yes, please see leak check validation findings worksheet.			✓	
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO.1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methyl cyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

LDC #: 54136C48a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Reviewer: FT

METHOD: GC/MS VOA (EPA Method TO-15)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 24 hours for each instrument?

Y N N/A Were all percent differences (%D) ≤ 30%?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤30.0%)	Associated Samples	Qualifications
	3/24/22 01:48PM	CCV	KKK	35.9	All	J/UJ/P ND

LDC #: 54136C48a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Reviewer: JB

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290A)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a LCS required?
Y N N/A Was a LCS analyzed every 20 samples for each matrix or whenever a sample extraction was performed?
Y N N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

#	Date	Lab ID/Reference	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		WG1619485-3 LCS	KKK	136 (70-130)	( )	( )	All	Jdets/P ND
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

LDC #: 54136 c48a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA SW 846 Method ~~8260~~ 8270) 7015

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the target analytes identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of target analyte
C_x = Concentration of target analyte
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
				RRF (5.0 std)	RRF (5.0 std)	Average RRF (initial)	Average RRF (initial)	%RSD	%RSD
1	ICAL	3/2/22	K	0.792	0792	0.769	0.769	13.84	13.84
			V	0.647	0.647	0.671	0.671	15.36	15.36
			CC	3.205	3.205	3.259	3.259	18.70	18.70
2									
3									
4									

Comments: _____

LDC #: 54136C48a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC/MS VOA (EPA SW 846 Method ~~8260~~ F7) TO15

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$

Where:
ave. RRF = initial calibration average RRF
A_x = Area of target analyte
C_x = Concentration of target analyte
RRF = continuing calibration RRF
A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV	3/24/22 1348	K	0.769	0.795	0.795	3.4	3.4
			V	0.671	0.698	0.698	4.0	4.0
			CC	3.259	3.637	3.637	11.6	11.6
2								
3								
4								

LDC #: 54136C48a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method ~~8260~~) TO15

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the target analytes identified below using the following calculation:

% Recovery = 100 * SSC/SA

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC)

Where: SSC = Spiked sample concentration
SA = Spike added
LCSC = Laboratory control sample concentration
LCSDC = Laboratory control sample duplicate concentration

LCS ID: WG161948S-3 LCS

Compound	Spike Added (ppbv)		Spiked Sample Concentration ( )		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
1,1-Dichloroethene	10.0	NA	9.86	NA	99	99				
Trichloroethene	↓	↓	11.6	↓	116	116				
Benzene			10.4		104	104				
Toluene			11.2		112	112				
Chlorobenzene			11.5		115	115	NA			

Comments: _____

LDC #: 54136C48a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method ~~8260~~) TO15

The concentration of the sample was calculated for the target analytes identified below using the following calculation:

$$\text{Concentration} = \frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the target analyte to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. #1 , K

Conc. = $\frac{41626\ (10.0)\ (11.72)}{460907\ (0.769)}$

= 13.764

11.72 X 21.3ml

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification
	#1	K	13.8 ppbv	13.764 ppbv	
			67.4 ug/m3	67.20 ug/m	
		ug/m3 =	13.764 (119.38) / 24.45	=	

LDC #: 54136C48b **VALIDATION COMPLETENESS WORKSHEET** Date: 6/7/22
SDG #: L2212858 Category B Page: 1 of 1
Laboratory: Alpha Analytical, Inc., Westborough, MA Reviewer: FT
2nd Reviewer: KK

METHOD: GC/MS Volatiles (EPA Method TO-15-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A / A	%D RSD/ICV ≤ 30
IV.	Continuing calibration	A	CCV ≤ 30
V.	Laboratory Blanks (1 every 20 per batch)	A/A	
VI.	Field blanks	N	
VII.	Surrogate spikes	N	
VIII.	Matrix spike/Matrix spike duplicates /DUP	N /A	L2212858-11DUP
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Target analyte quantitation	A	No Result < RL > MDL
XIII.	Target analyte identification	A	
XIV.	System performance	A	
XV.	Leak Check Compounds	NA	
XVI.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	IA002	L2212858-12	Air	03/10/22
2				
3				
4				
5				
6				
7				
8				

Notes:

	WG1619486-4 Blank						

Method: Volatiles (EPA Method TO-15)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was canister pressure criteria met?	✓			
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 24 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 30%?	✓			
IIIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after every ICAL for each instrument?	✓			
Were all percent differences (%D) ≤ 30%?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 24 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 30%?	✓			
V. Laboratory Blanks/Canister Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 24 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
Was a canister blank analyzed for every canister?	✓			
Was there contamination in the canister blanks?		✓		
VI. Field Blanks				
Were field blanks identified in this SDG?		✓		
Were target compounds detected in the field blanks?			✓	
VII. Surrogate spikes (Optional)				
Were all surrogate percent recoveries (%R) within QC limits?			✓	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VIII. Laboratory Duplicate				
Was a laboratory duplicate analyzed for this SDG?	✓			
Were the relative percent differences (RPD) within the QC limits?	✓			

Validation Area	Yes	No	NA	Findings/Comments
IX. Laboratory control samples				
Was an LCS analyzed per analytical batch for this SDG?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target compounds detected in the field duplicates?			✓	
XI. Internal standards				
Were internal standard area counts within ± 40% from the associated calibration standard?	✓			
Were retention times within ± 20.0 seconds from the associated calibration standard?	✓			
XII. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions applicable to level IV validation?	✓			
XIII. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Leak check compounds				
Was a leak check compound used to evaluate sample integrity and included in the laboratory analyte list?			✓	
Was the leak check compound detected in the samples? If yes, please see leak check validation findings worksheet.			✓	
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO.1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methyl cyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

LDC #: 54136c48b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA Method TO-15)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (5.0 std)	Recalculated RRF (5.0 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	3/3/22	C	0.450	0.450	0.4437	0.4437	6.39	6.39
			S	0.216	0.216	0.2247	0.2247	11.5	11.5
			AA	1.078	1.078	1.1483	1.1483	8.47	8.47
2									
3									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136C48b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC/MS VOA (EPA TO-15)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV	3/24/22 1427	C	0.4437	0.428	0.428	3.6	3.6
			S	0.2247	0.238	0.238	5.8	5.8
			AA	1.1483	1.143	1.143	0.4	0.4
2								
3								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136C48b

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA Method TO-15)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration
SA = Spike added

RPD = I LCS - LCSD I * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: WG1619486-3

Compound	Spike Added (ppbv)		Spiked Sample Concentration (ppbv)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
C	5	NA	4.83	NA	97	97				
QQQ	5	↓	4.75	↓	95	95				
S	5	↓	5.30	↓	106	106				

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136C486

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA Method TO-15)

Y N N/A Were all reported results recalculated and verified for all level IV samples?

Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only. 250 ml

Example:

Sample I.D. #1, AA

Conc. = $\frac{(1332)(10.0)}{(139018)(1.1483)}$

= 0.0834 ppbV

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification
	#1	AA	0.083 ppbV	0.0834 ppbV	
			0.563 ug/m3	0.565 ug/m3	
		$\frac{ug}{m^3} = \frac{0.0834 (165.83)}{24.45}$		= 0.565 $\frac{ug}{m^3}$	

Site:	737 4th Ave, Brooklyn, NY
Laboratory:	Alpha Analytical, Inc., Westborough, MA
Report No.:	L2212899
Reviewer:	Felomina Tanguilig, Josephine Go, and Kevin Kha/Laboratory Data Consultants for P.W. Grosser Consulting
Date:	June 29, 2022

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
MW-84	L2212899-03	VOC, SVOC, PAH, 1,4-Dioxane, Pesticide, PCB, PFAS

Associated QC Samples(s):
Field/Trip Blanks: TRIP BLANK, EQUIPMENT BLANK, FIELD BLANK
Field Duplicate pair: None Associated

The above-listed water sample was collected on March 10, 2022 and was analyzed for volatile organic compounds (VOCs) by SW-846 method 8260C, semivolatile organic compounds (SVOCs) by SW-846 method 8270D, polynuclear aromatic hydrocarbons (PAHs) by SW-846 method 8270D in selected ion monitoring (SIM) mode, 1,4-dioxane by SW-846 method 8270D in selected ion monitoring (SIM) mode, organochlorine pesticides by SW-846 method 8081B, polychlorinated biphenyls (PCBs) by SW-846 method 8082A, and perfluoroalkyl and polyfluoroalkyl substances (PFAS) by method 537 modified. The data validation was performed in accordance with the USEPA Region 2 *Standard Operating Procedure for Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-Method 8260B and 8260C,* SOP HW-24, Revision 4 (October 2014), the USEPA Region 2 *Standard Operating Procedure for Semivolatile Data Validation,* SOP HW-35A, Revision 0 (June 2015), the USEPA Region 2 *Standard Operating Procedure for Validating Pesticide Compounds, Organochlorine Pesticides by Gas Chromatography SW-846 Method 8081B,* SOP HW-44, Revision 1.1 (December 2010), the USEPA Region 2 *Standard Operating Procedure for Validating PCB Compounds, PCBs by Gas Chromatography SW-846 Method 8082A,* SOP HW-45, Revision 1 (October 2006), the USEPA *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review,* EPA 540-R-20-005 (November 2020), and the Guidelines for Sampling and Analysis of PFAS under NYSDEC's Part 375 Remedial Programs (January 2021), modified as necessary to accommodate the non-CLP methodologies used.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- GC/Electron Capture Detector (GC/ECD) Instrument Performance Checks
- Liquid Chromatography/Mass Spectrometry (LC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards/Labeled Compounds
- Field Duplicate Results
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to laboratory quality control outliers with the exception listed below.

The PAH nondetect results for pentachlorophenol in sample MW-84 were rejected (R) due to low LCS/LCSD recoveries. The results are not usable for project objectives, which may have a major impact on the data usability.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All technical holding time requirements were met.

GC/MS Tunes

VOC, SVOC, PAH, and 1,4-Dioxane

All criteria were met.

GC/ECD Instrument Performance Checks

Pesticide

All criteria were met.

LC/MS Tunes

PFAS

All criteria were met.

Initial and Continuing Calibrations

VOC

Initial calibration:

Compounds that did not meet criteria are summarized in the following tables.

Date	Standard ID	Compound	RRF	Associated Samples		Validation Action
03/17/22	ICAL-Elaine	1,4-Dioxane	0.00094 (≥0.005)	MW-84	+	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 1,4-dioxane result was estimated due to response factor exceedance. The bias cannot be determined. The result can be used for project objectives as nondetect with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Date	Standard ID	Compound	IC %D	Associated Samples		Validation Action
03/17/22	ICV	Dichlorodifluoromethane	57.2	MW-84	SS	UJ nondetects
		Chloromethane	60.4		SS	UJ nondetects
		Vinyl chloride	42.4		SS	UJ nondetects
		Bromomethane	38.4		SS	UJ nondetects
		Chloroethane	43.2		SS	UJ nondetects
		Carbon disulfide	32.8		SS	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The dichlorodifluoromethane, chloromethane, vinyl chloride, bromomethane, chloroethane, and carbon disulfide results were estimated due to second source calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following tables.

Date	Standard ID	Compound	RRF	Associated Samples		Validation Action
03/21/22	CCV	1,4-Dioxane	0.00116 (≥0.005)	MW-84	+	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 1,4-dioxane result was estimated due to response factor exceedance. The bias cannot be determined. The result can be used for project objectives as nondetect with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Date	Standard ID	Compound	CC %D	Associated Samples		Validation Action
03/21/22	CCV	Chloroethane	21.1	MW-84	XX	UJ nondetects
		1,4-Dioxane	23.4		XX	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The chloroethane and 1,4-dioxane results were estimated due to continuing calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

SVOC, PAH, 1,4-Dioxane, and PCB

All criteria were met.

Pesticide

Initial calibration:

All criteria were met.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Standard ID	Column	Compound	CC %D	Associated Samples		Validation Action
03/18/22	CCV	CLP 2	4,4'-DDT	20.1	MW-84	XX	UJ nondetects
			Endrin aldehyde	20.7		XX	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 4,4'-DDT and endrin aldehyde results were estimated due to continuing calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetect with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

PFAS

Initial calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Standard ID	Compound	IC %D	Associated Samples		Validation Action
03/07/22	I15756	N-Methylperfluorooctanesulfonamidoacetic acid	32.7	MW-84	SS	J detects/UJ nondetects
		N-Ethylperfluorooctanesulfonamidoacetic acid	32.4		SS	J detects/UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
ISC = Instrument sensitivity check (ISC) percent difference (%D) > 50; estimate (J/UJ) positive and nondetect results.

The n-methylperfluorooctanesulfonamidoacetic acid and n-ethylperfluorooctanesulfonamidoacetic acid results were estimated due to second source calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Continuing calibration:

All criteria were met.

Blanks

VOC

Contamination was not detected in the method blanks.

No positive results were found in the trip blank sample TRIP BLANK for VOC analysis.

Contamination was detected in the equipment blank sample EQUIPMENT BLANK for VOC analysis. The presence of blank contamination indicates that false positives may exist for these compounds in the associated samples. Action Levels (ALs) were established at <2x reporting limits (RL) (for common contaminants) and <RL (for other contaminants) of the concentrations detected. The following table summarizes the contamination detected.

Field Blank ID	Compound	Level Detected	Action Level	Associated Samples
EQUIPMENT BLANK	Acetone	2.1 ug/L	2xRL	MW-84

Sample results were qualified as follows:

- If sample concentration was < the reporting limit (RL) and ≤ the Action Level, qualify the result as a nondetect (U) at the RL.
- If sample concentration was > the RL and ≤ the Action Level, qualify the result as not detected (U) at the reported concentration.

No samples were qualified since the associated sample results were greater than the action level.

SVOC, 1,4-Dioxane, Pesticide, and PCB

Contamination was not detected in the method blanks.

No positive results were found in the equipment blank sample EQUIPMENT BLANK for SVOC, 1,4-dioxane, pesticide, and PCB analyses.

PAH

Contamination was detected in the associated PAH method blank samples. The presence of blank contamination indicates that false positives may exist for these compounds in the associated samples. Action Levels (Als) were established at <2x RL (for common contaminants) and <RL (for other contaminants) of the concentrations detected. The following table summarizes the contamination detected.

Blank ID	Compound	Level Detected	Action Level	Associated Samples
WG1616761-1Blank	Fluorene	0.03 ug/L	RL	MW-84

Sample results were qualified as follows:

- If sample concentration was < the reporting limit (RL) and ≤ the Action Level, qualify the result as a nondetect (U) at the RL.

- If sample concentration was > the RL and ≤ the Action Level, qualify the result as not detected (U) at the reported concentration.
- If the sample concentration was > the RL and > the Action Level, qualification of the data was not required.

Qualified sample results are listed in the table below.

Sample ID	Compound	Level Detected	Validation Action
MW-84	Fluorene	0.05 ug/L	0.10U ug/L

These results can be used for project objectives as nondetects (U) which may have a minor impact on the data usability.

No positive results were found in the equipment blank sample EQUIPMENT BLANK for PAH analysis.

PFAS

Contamination was not detected in the method blanks.

No positive results were found in the field blank sample FIELD BLANK for PFAS analysis.

Contamination was detected in the equipment blank sample EQUIPMENT BLANK for PFAS analysis. The presence of blank contamination indicates that false positives may exist for these compounds in the associated samples. Action Levels (ALs) were established at the reporting limit (RL) for contaminants. The following table summarizes the contamination detected.

Field Blank ID	Compound	Level Detected	Action Level	Associated Samples
EQUIPMENT BLANK	Perfluoropentanoic acid	0.368 ng/L	RL	MW-84

Sample results were qualified as follows:

- If sample concentration was < the reporting limit (RL) and ≤ the Action Level, qualify the result as a nondetect (U) at the RL.
- If sample concentration was > the RL and ≤ the Action Level, qualify the result as not detected (U) at the reported concentration.

Qualified sample results are listed in the table below.

Sample ID	Compound	Level Detected	Validation Action
MW-84	Perfluoropentanoic acid	1.56 ng/L	2.77U ng/L

These results can be used for project objectives as nondetects (U) which may have a minor impact on the data usability.

Surrogate Recoveries

VOC, SVOC, PAH, 1,4-Dioxane, Pesticide, and PCB

All criteria were met.

MS/MSD Results

VOC

MS/MSD analyses were performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were not within QC limits. No data were qualified since there were no associated samples in this SDG.

SVOC

MS/MSD analyses were performed on an associated project sample. Percent recoveries (%R) and relative percent differences (RPD) were not within QC limits. No data were qualified since there were no associated samples in this SDG.

PAH, 1,4-Dioxane, Pesticide, and PCB

MS/MSD analyses were performed on an associated project sample for PAH, 1,4-dioxane, pesticide, and PCB analyses. All criteria were met.

PFAS

MS/MSD analyses were not associated with this sample set. Validation action was not required on this basis.

LCS Results

VOC, 1,4-Dioxane, Pesticide, PCB, and PFAS

All criteria were met.

SVOC

The following table lists the LCS/LCSD percent recoveries (%R) outside of control limits in the SVOC analysis and the resulting validation actions.

LCS ID	Compound	LCS %R (Limits)	LCS/D %R (Limits)	Affected Sample	Validation Action
WG1616762-2/3 LCS/LCSD	Hexachlorocyclopentadiene	34 (40-140)	34 (40-140)	MW-84	UJ nondetects
	4-Chloroaniline	-	39 (40-140)		UJ nondetects
	4-Nitroaniline	49 (51-143)	49 (51-143)		UJ nondetects
	2,4,6-Trichlorophenol	-	22 (30-130)		UJ nondetects
	2,4-Dinitrophenol	-	0 (20-130)		UJ nondetects
	4,6-Dinitro-o-cresol	-	17 (20-164)		UJ nondetects
	Benzoic acid	-	0 (10-164)		UJ nondetects

- Within control limits

The results for the compounds listed above may be biased low due to low LCS/LCSD percent recoveries. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

The following table lists the LCS/LCSD relative percent differences (RPD) outside of control limits in the SVOC analysis and the resulting validation actions.

LCS ID	Compound	RPD (Limits)	Affected Sample	Validation Action
WG1616762-2/3 LCS/LCSD	2,4,6-Trichlorophenol	78 (≤30)	MW-84	None
	2-Chlorophenol	45 (≤30)		
	2,4-Dichlorophenol	48 (≤30)		
	2-Nitrophenol	50 (≤30)		
	4-Nitrophenol	71 (≤30)		
	4,6-Dinitro-o-cresol	74 (≤30)		
	Pentachlorophenol	83 (≤30)		
	Phenol	34 (≤30)		
	2,4,5-Trichlorophenol	56 (≤30)		
	Benzoic acid	200 (≤30)		

Validation action was not required for 2,4,6-trichlorophenol, 2-chlorophenol, 2,4-dichlorophenol, 2-nitrophenol, 4-nitrophenol, 4,6-dinitro-o-cresol, pentachlorophenol, phenol, 2,4,5-trichlorophenol, and benzoic acid due to LCS/LCSD relative percent difference exceedances as positive results only are affected and these compounds were not detected in the associated sample.

PAH

The following table lists the LCS/LCSD percent recoveries (%R) outside of control limits in the PAH analysis and the resulting validation actions.

LCS ID	Compound	LCS %R (Limits)	LCS/D %R (Limits)	Affected Sample	Validation Action
WG1616761-LCS/LCSD	Pentachlorophenol	3 (40-140)	4 (40-140)	MW-84	R nondetects

- Within control limits

The PAH nondetect results for pentachlorophenol in sample MW-84 were rejected (R) due to low LCS/LCSD recoveries. The results are not usable for project objectives, which may have a major impact on the data usability.

Internal Standards

VOC, SVOC, PAH, 1,4-Dioxane, Pesticide, and PCB

All criteria were met.

Labeled Compounds

PFAS

The following table lists the labeled compound percent recoveries (%R) outside of control limits in the PFAS analysis and the resulting validation actions.

Sample	Labeled Compound	%R (Limits)	Affected Compound	Validation Action
MW-84	M2-6:2 FTS	192 (50-150)	1H,1H,2H,2H-Perfluorooctanesulfonic acid	J detects/UJ nondetects

The 1h,1h,2h,2h- perfluorooctanesulfonic acid result for the sample listed above was estimated due to labeled compound percent recovery exceedance. The bias cannot be determined. The result can be used for project objectives as an estimated value (J) or nondetect with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Field Duplicate Results

A field duplicate pair was not associated with this sample set. Validation action was not required on this basis.

Quantitation Limits and Data Assessment

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the VOC, SVOC, PAH, and PFAS analyses. These results were qualified as estimated (J) by the laboratory.

No results were reported below the RL and above the MDL in the 1,4-dioxane, pesticide, and PCB analyses.

Dilutions were not required for VOC, SVOC, PAH, 1,4-dioxane, pesticide, PCB, and PFAS analyses.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

PFAS

All PFAS compounds flagged F by the laboratory for sample MW-84 were due to ion ratio outside of QC limits. The results can be used for project objectives as estimated values (J) which may have a minor impact on the data usability.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2212899
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212899-03	Date Collected	: 03/10/22 13:00
Client ID	: MW-84	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/21/22 21:24
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MV
Lab File ID	: VE220321N10	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	2.5	0.70	U	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U	U
67-66-3	Chloroform	12	2.5	0.70		
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U	
124-48-1	Dibromochloromethane	ND	0.50	0.15	U	
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U	
127-18-4	Tetrachloroethene	ND	0.50	0.18	U	
108-90-7	Chlorobenzene	ND	2.5	0.70	U	
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U	
75-27-4	Bromodichloromethane	1.0	0.50	0.19		
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U	
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U	
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U	
75-25-2	Bromoform	ND	2.0	0.65	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U	
71-43-2	Benzene	25	0.50	0.16		
108-88-3	Toluene	ND	2.5	0.70	U	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U	U
74-87-3	Chloromethane	ND	2.5	0.70	U	UJ
74-83-9	Bromomethane	ND	2.5	0.70	U	UJ
75-01-4	Vinyl chloride	ND	1.0	0.07	U	UJ

KK 7/14/22

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2212899
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212899-03	Date Collected	: 03/10/22 13:00
Client ID	: MW-84	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/21/22 21:24
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MV
Lab File ID	: VE220321N10	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-00-3	Chloroethane	ND	2.5	0.70	U	UJ
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U	U
79-01-6	Trichloroethene	0.32	0.50	0.18	J	J
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U	
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U	
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U	
179601-23-1	p/m-Xylene	ND	2.5	0.70	U	
95-47-6	o-Xylene	ND	2.5	0.70	U	
1330-20-7	Xylenes, Total	ND	2.5	0.70	U	
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U	
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U	
74-95-3	Dibromomethane	ND	5.0	1.0	U	
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U	
107-13-1	Acrylonitrile	ND	5.0	1.5	U	
100-42-5	Styrene	ND	2.5	0.70	U	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U	UJ
67-64-1	Acetone	7.0	5.0	1.5		
75-15-0	Carbon disulfide	ND	5.0	1.0	U	UJ
78-93-3	2-Butanone	ND	5.0	1.9	U	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U	
591-78-6	2-Hexanone	ND	5.0	1.0	U	
74-97-5	Bromochloromethane	ND	2.5	0.70	U	

KK 7/14/22

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2212899
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212899-03	Date Collected	: 03/10/22 13:00
Client ID	: MW-84	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/21/22 21:24
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MV
Lab File ID	: VE220321N10	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier	
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U	
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U	
108-86-1	Bromobenzene	ND	2.5	0.70	U	
104-51-8	n-Butylbenzene	ND	2.5	0.70	U	
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U	
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U	
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U	
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U	
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U	
98-82-8	Isopropylbenzene	0.76	2.5	0.70	J	J
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U	U
91-20-3	Naphthalene	0.76	2.5	0.70	J	J
103-65-1	n-Propylbenzene	0.85	2.5	0.70	J	J
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U	
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U	
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U	
123-91-1	1,4-Dioxane	ND	250	61.	U	UJ
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U	U
95-93-2	1,2,4,5-Tetramethylbenzene	2.9	2.0	0.54		
60-29-7	Ethyl ether	ND	2.5	0.70	U	U

KMC 7/14/22

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2212899
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212899-03	Date Collected	: 03/10/22 13:00
Client ID	: MW-84	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/21/22 21:24
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MV
Lab File ID	: VE220321N10	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

KK 7/14/22

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2212899
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212899-03	Date Collected	: 03/10/22 13:00
Client ID	: MW-84	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/25/22 16:58
Sample Matrix	: WATER	Date Extracted	: 03/17/22
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 12899-03	Analyst	: JG
Sample Amount	: 275 ml	Instrument ID	: SV124
Extraction Method	: EPA 3510C	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	U	U
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.45	U	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.40	U	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.43	U	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U	
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U	
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U	
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U	UJ
78-59-1	Isophorone	ND	5.0	1.2	U	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U	
86-30-6	NDPA/DPA	ND	2.0	0.42	U	
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2.4	3.0	1.5	J	J
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U	U
84-74-2	Di-n-butylphthalate	1.0	5.0	0.39	J	J
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U	U

KK 7/14/22

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2212899
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212899-03	Date Collected	: 03/10/22 13:00
Client ID	: MW-84	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/25/22 16:58
Sample Matrix	: WATER	Date Extracted	: 03/17/22
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 12899-03	Analyst	: JG
Sample Amount	: 275 ml	Instrument ID	: SV124
Extraction Method	: EPA 3510C	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier	
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U	U
92-52-4	Biphenyl	ND	2.0	0.46	U	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U	UJ
88-74-4	2-Nitroaniline	ND	5.0	0.50	U	U
99-09-2	3-Nitroaniline	ND	5.0	0.81	U	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U	UJ
132-64-9	Dibenzofuran	ND	2.0	0.50	U	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U	↓
98-86-2	Acetophenone	ND	5.0	0.53	U	↓
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U	UJ
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U	↓
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U	↓
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U	↓
88-75-5	2-Nitrophenol	ND	10	0.85	U	↓
100-02-7	4-Nitrophenol	ND	10	0.67	U	↓
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U	UJ
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U	UJ
108-95-2	Phenol	ND	5.0	0.57	U	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U	↓
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U	↓
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U	↓

KL 7/14/22

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2212899
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212899-03	Date Collected	: 03/10/22 13:00
Client ID	: MW-84	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/25/22 16:58
Sample Matrix	: WATER	Date Extracted	: 03/17/22
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 12899-03	Analyst	: JG
Sample Amount	: 275 ml	Instrument ID	: SV124
Extraction Method	: EPA 3510C	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
65-85-0	Benzoic Acid	ND	50	2.6	U	u J
100-51-6	Benzyl Alcohol	ND	2.0	0.59	U	u
86-74-8	Carbazole	ND	2.0	0.49	U	u

KK 7/14/22

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: P. W. Grosser	Lab Number	: L2212899
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212899-03	Date Collected	: 03/10/22 13:00
Client ID	: MW-84	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/19/22 19:37
Sample Matrix	: WATER	Date Extracted	: 03/17/22
Analytical Method	: 1,8270D-SIM	Dilution Factor	: 1
Lab File ID	: 12899-03	Analyst	: DV
Sample Amount	: 275 ml	Instrument ID	: SV128
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilMS
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
83-32-9	Acenaphthene	0.03	0.10	0.01	J	J
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U	U
206-44-0	Fluoranthene	0.11	0.10	0.02		
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U	U
91-20-3	Naphthalene	0.07	0.10	0.05	J	J
56-55-3	Benzo(a)anthracene	0.06	0.10	0.02	J	J
50-32-8	Benzo(a)pyrene	0.09	0.10	0.02	J	J
205-99-2	Benzo(b)fluoranthene	0.30	0.10	0.01		
207-08-9	Benzo(k)fluoranthene	0.08	0.10	0.01	J	J
218-01-9	Chrysene	0.17	0.10	0.01		
208-96-8	Acenaphthylene	0.03	0.10	0.01	J	J
120-12-7	Anthracene	0.05	0.10	0.01	J	J
191-24-2	Benzo(ghi)perylene	0.18	0.10	0.01		
86-73-7	Fluorene	0.05	0.10	0.01	J	0.10 U
85-01-8	Phenanthrene	0.06	0.10	0.02	J	J
53-70-3	Dibenzo(a,h)anthracene	0.06	0.10	0.01	J	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.20	0.10	0.01		
129-00-0	Pyrene	0.23	0.10	0.02		
91-57-6	2-Methylnaphthalene	0.04	0.10	0.02	J	J
87-86-5	Pentachlorophenol	ND	0.80	0.01	U	R
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U	U

KK 7/14/22

Results Summary
Form 1
1,4 Dioxane by 8270D-SIM

Client	: P. W. Grosser	Lab Number	: L2212899
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212899-03	Date Collected	: 03/10/22 13:00
Client ID	: MW-84	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/16/22 05:26
Sample Matrix	: WATER	Date Extracted	: 03/14/22
Analytical Method	: 1,8270D-SIM	Dilution Factor	: 1
Lab File ID	: F2203152246	Analyst	: DB
Sample Amount	: 250 ml	Instrument ID	: PAH22
Extraction Method	: EPA 3510C	GC Column	: RTX-5
Extract Volume	: 2500 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ng/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
123-91-1	1,4-Dioxane	ND	150	33.9	U	U

KK 7/14/22

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: P. W. Grosser	Lab Number	: L2212899
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212899-03	Date Collected	: 03/10/22 13:00
Client ID	: MW-84	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/18/22 16:59
Sample Matrix	: WATER	Date Extracted	: 03/17/22
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 15220318b-21	Analyst	: JAW
Sample Amount	: 140 ml	Instrument ID	: PEST15
Extraction Method	: EPA 3510C	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
319-86-8	Delta-BHC	ND	0.014	0.003	U	U
58-89-9	Lindane	ND	0.014	0.003	U	
319-84-6	Alpha-BHC	ND	0.014	0.003	U	
319-85-7	Beta-BHC	ND	0.014	0.004	U	
76-44-8	Heptachlor	ND	0.014	0.002	U	
309-00-2	Aldrin	ND	0.014	0.002	U	
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U	
72-20-8	Endrin	ND	0.029	0.003	U	
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U	UJ
53494-70-5	Endrin ketone	ND	0.029	0.003	U	U
60-57-1	Dieldrin	ND	0.029	0.003	U	
72-55-9	4,4'-DDE	ND	0.029	0.003	U	
72-54-8	4,4'-DDD	ND	0.029	0.003	U	
50-29-3	4,4'-DDT	ND	0.029	0.003	U	UJ
959-98-8	Endosulfan I	ND	0.014	0.002	U	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U	
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U	
72-43-5	Methoxychlor	ND	0.143	0.005	U	
8001-35-2	Toxaphene	ND	0.143	0.045	U	
5103-71-9	cis-Chlordane	ND	0.014	0.005	U	
5103-74-2	trans-Chlordane	ND	0.014	0.004	U	

KK 7/14/22

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: P. W. Grosser	Lab Number	: L2212899
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212899-03	Date Collected	: 03/10/22 13:00
Client ID	: MW-84	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/18/22 16:59
Sample Matrix	: WATER	Date Extracted	: 03/17/22
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 15220318b-21	Analyst	: JAW
Sample Amount	: 140 ml	Instrument ID	: PEST15
Extraction Method	: EPA 3510C	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
57-74-9	Chlordane	ND	0.143	0.033	U	U

KK 7/14/22

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: P. W. Grosser	Lab Number	: L2212899
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212899-03	Date Collected	: 03/10/22 13:00
Client ID	: MW-84	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/30/22 12:50
Sample Matrix	: WATER	Date Extracted	: 03/29/22
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: 12220330a-13	Analyst	: AWS
Sample Amount	: 140 ml	Instrument ID	: PEST12
Extraction Method	: EPA 3510C	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

U

KK 7/14/22

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: P. W. Grosser	Lab Number	: L2212899
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212899-03R	Date Collected	: 03/10/22 13:00
Client ID	: MW-84	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/26/22 14:14
Sample Matrix	: WATER	Date Extracted	: 03/21/22
Analytical Method	: 134,LCMSMS-ID	Dilution Factor	: 1
Lab File ID	: I16945	Analyst	: RS
Sample Amount	: 180.42 g	Instrument ID	: LCMS01
Extraction Method	: ALPHA 23528	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ng/l Results	RL	MDL	Qualifier	
375-22-4	Perfluorobutanoic Acid (PFBA)	1.18	2.77	0.565	J	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	1.56	2.77	0.549	J	2.77U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	0.504	2.77	0.330	J	J
307-24-4	Perfluorohexanoic Acid (PFHxA)	1.48	2.77	0.454	J	
375-85-9	Perfluoroheptanoic Acid (PFHpA)	1.36	2.77	0.312	J	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	1.17	2.77	0.521	J	
335-67-1	Perfluorooctanoic Acid (PFOA)	3.11	2.77	0.327		
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	2.43	2.77	1.84	J	J
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	2.77	0.953	U	U
375-95-1	Perfluorononanoic Acid (PFNA)	0.510	2.77	0.432	JF	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	2.78	2.77	0.698		
335-76-2	Perfluorodecanoic Acid (PFDA)	0.981	2.77	0.421	J	J
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	2.77	1.68	U	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	2.77	0.898	U	UJ
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	2.77	0.360	U	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	2.77	1.36	U	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	1.82	2.77	1.11	J	J
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	2.77	0.515	U	U

KK 7/14/22

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: P. W. Grosser	Lab Number	: L2212899
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212899-03R	Date Collected	: 03/10/22 13:00
Client ID	: MW-84	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/26/22 14:14
Sample Matrix	: WATER	Date Extracted	: 03/21/22
Analytical Method	: 134,LCMSMS-ID	Dilution Factor	: 1
Lab File ID	: I16945	Analyst	: RS
Sample Amount	: 180.42 g	Instrument ID	: LCMS01
Extraction Method	: ALPHA 23528	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	2.77	0.453	U	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	2.77	0.344	U	U
NONE	PFOA/PFOS, Total	5.89	2.77	0.327		

KK 7/14/22

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: P. W. Grosser	Lab Number	: L2212899
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212899-03	Date Collected	: 03/10/22 13:00
Client ID	: MW-84	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/30/22 09:46
Sample Matrix	: WATER	Date Extracted	: 03/21/22
Analytical Method	: 134,LCMSMS-ID	Dilution Factor	: 1
Lab File ID	: M02925	Analyst	: MP
Sample Amount	: 180.42 g	Instrument ID	: LCMS02
Extraction Method	: ALPHA 23528	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	2.77	0.804	U	U

KK 7/19/22

LDC #: 54136E1a

SDG #: L2212899

Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET

Category B

Date: 6/7/22

Page: 1 of 1

Reviewer: PD

2nd Reviewer: KMC

METHOD: GC/MS Volatiles (EPA SW-846 Method 8260C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	SW / SW	%RSD ≤ 20, r² ICV ≤ 30
IV.	Continuing calibration	SW	CCV ≤ 20
V.	Laboratory Blanks	A	
VI.	Field blanks	SW	EB= EQUIPMENT BLANK
VII.	Surrogate spikes	A	*TB = TRIP BLANK
VIII.	Matrix spike/Matrix spike duplicates	SW	L2212899-02 MS/MD (%RPD NO Assoc. sample)
IX.	Laboratory control samples PD	SW A	LCS/D
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Target analyte quantitation	A	Result < RL > MDL = Jdet
XIII.	Target analyte identification	A	
XIV.	System performance	A	
XV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; *ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-84	L2212899-03	Water	03/10/22
2				
3				
4				
5				
6				
7				
8				
9				

Notes:

WG1618430-5 Blank

LDC #: 54136E1a **VALIDATION FINDINGS CHECKLIST** Page: 1 of 2
Reviewer: FT

Method: Volatiles (EPA SW 846 Method 8260 C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%, 15/30% and relative response factors (RRF) within method criteria?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?		✓		
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20% 30%?		✓		
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 20% and relative response factors (RRF) within method criteria?		✓		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation findings worksheet.		✓		
VI. Field blanks				
Were field blanks were identified in this SDG?	✓			
Were target analytes detected in the field blanks?	✓			
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		

Validation Area	Yes	No	NA	Findings/Comments
IX. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XI. Internal standards				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XII. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?	✓			
Were target analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Target analyte identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did analyte spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?			✓	
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.		✓		

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO.1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methyl cyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

LDC #: 54136E1a

VALIDATION FINDINGS WORKSHEET
Initial Calibration

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Did the laboratory perform a 5 point calibration prior to sample analysis?
Y N N/A Were percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?
Y N N/A Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation?_____
Y N N/A Did the initial calibration meet the acceptance criteria?
Y N N/A Were all %RSDs and RRFs within the validation criteria of ≤30/15, 20, 15 RSD% and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %RSD (Limit:_____)	Finding RRF (Limit: >0.05)	Associated Samples	Qualifications
	3/17/22 0634	ICV-Elaine					
	3/17/22	ICAL-Elaine	HHHH		0.00094 (<0.005)	all	J/UJ/A ND

LDC #: 54136E1a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

~~Y~~ N N/A Was an initial calibration verification standard analyzed after each ICAL for each instrument?

Y N N/A Were all %D within the validation criteria of ≤20 %D?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤20.0% (30%))	Associated Samples	Qualifications
	3/17/22 0634	ICV	JJ	~~30~~ 57.2	All	J/UJ/A ND
			A	60.4		
			C	42.4		
			B	38.4		
			D	43.2		
			G	32.8		

LDC #: 54136E1a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

~~Y~~ N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?

Y N N/A Were all %D and RRFs within the validation criteria of ≤20 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤20.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	3/21/22 1821	CCV	D	21.1		All	J/UJ/A ND
			~~NNNN~~	~~24~~ F7			
			HHHH	23.4			
			HHHH		0.00116 (≥0.005)		

LDC #: 54136E/a

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 C)

EB = EQUIPMENT BLANK

Y N N/A Were field blanks identified in this SDG?
Y N N/A Were target compounds detected in the field blanks?

Blank units: ug/L **Associated sample units:** ug/L
Sampling date: 3/10/22
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: EB Associated Samples: 1 > RL

Compound	Blank ID	Sample Identification								
	EB									
c F	2.1									

Blank units: _____ **Associated sample units:** _____
Sampling date: _____
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: _____ Associated Samples: _____

Compound	Blank ID	Sample Identification								

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as Methylene chloride, Acetone, 2-Butanone and Carbon disulfide that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

LDC #: 54136E1a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260 Ⓒ)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the target analytes identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of target analyte
C_x = Concentration of target analyte
S = Standard deviation of the RRFs
X = Mean of the RRFs 316 N10 N11
A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Reported RRF (8V std)	Recalculated RRF (8V std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL Elaine	3/17/22	K	0.287	0.287	0.294	0.294	7.81	7.81
			CC	0.598	~~0.679~~ 0.590	0.590	0.590	9.50	9.50
			BB	0.423	0.423	0.398	0.398	9.33	9.33
2									
3									
4									

Comments: _____

LDC #: 54136E1a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$

Where:
ave. RRF = initial calibration average RRF
A_x = Area of target analyte
C_x = Concentration of target analyte
RRF = continuing calibration RRF
A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV Elaine	3/21/22 1821	K	0.294	0.333	0.333	13.3	13.3
			CC	0.590	0.644	0.644	9.2	9.2
			BB	0.398	0.393	0.393	1.3	1.3
2								
3								
4								

LDC #: 54136E1a

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 C)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 3

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane	10.0	10.639	106	106	0
1,2-Dichloroethane-d4	↓	10.421	104	104	↓
Toluene-d8		9.882	99	99	
Bromofluorobenzene		9.721	97	97	

Comments: _____

LDC #: 54136E/a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the target analytes identified below using the following calculation:

% Recovery = 100 * SSC/SA

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC)

Where: SSC = Spiked sample concentration
SA = Spike added
LCSC = Laboratory control sample concentration
LCSDC = Laboratory control sample duplicate concentration

LCS ID: WG161843O-3/4

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
1,1-Dichloroethene	10	10	11 11.238	10 9.950	110	112	100	100	10	12
Trichloroethene			11 10.676	10 10.099	110	107	100	~~100~~ 101	10	6
Benzene			11 10.950	10 9.964	110	110	100	100	10	9
Toluene			11 10.919	10 10.283	110	110	100	~~100~~ 103	10	6
Chlorobenzene	↓	↓	11 10.981	10 10.116	110	110	100	101	10	8

Comments: _____

LDC #: 54136E/a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

The concentration of the sample was calculated for the target analytes identified below using the following calculation:

$$\text{Concentration} = \frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the target analyte to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. #1, K

Conc. = $\frac{65617 \quad (10.0)}{1818 99 \quad (0.294)}$

= 12.269 ug/L

#	Sample ID	Compound	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Qualification
	#1	K	12	12.269	-

LDC #: 54136E2a
SDG #: L2212899
Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET
Category B

Date: 6/12/22
Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS Semivolatiles (EPA SW-846 Method 8270D)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A LA	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A LA	%D/%RSD ≤ 20, r² ICV ≤ 30
IV.	Continuing calibration	A	CCV ≤ 20
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	EB = EQUIPMENT BLANK
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	SW	L2212899-02 MS/D (%R, %RPD NO Applicable sample)
IX.	Laboratory control samples	SW	LCS/D
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Target analyte quantitation	A	MI Results < RL > MDL = Det
XIII.	Target analyte identification	A	
XIV.	System performance	A	
XV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-84	L2212899-03	Water	03/10/22
2				
3				
4				
5				
6				
7				
8				
9				

Notes:

	WG1616762 - 1B/K						

LDC #: 91136E2a

VALIDATION FINDINGS CHECKLIST

Reviewer: FT

Method: Semivolatiles (EPA SW 846 Method 8270D)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20% 15/30% and relative response factors (RRF) within method criteria?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20% 30%?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 20% and relative response factors (RRF) within method criteria?		✓		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the blanks validation findings worksheet.		✓		
VI. Field blanks				
Were field blanks were identified in this SDG?	✓			
Were target analytes detected in the field blanks?		✓		
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any percent recoveries (%R) was less than 10%, was a reanalysis performed to confirm %R ?	.		✓	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	✓			

Validation Area	Yes	No	NA	Findings/Comments
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
IX. Laboratory control samples				
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XI. Internal standards				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XII. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Target analyte identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

A. Phenol	CC. Dimethylphthalate	EEE. Bis(2-ethylhexyl)phthalate	GGGG. C30-Hopane	I1. Methyl methanesulfonate
B. Bis (2-chloroethyl) ether	DD. Acenaphthylene	FFF. Di-n-octylphthalate	HHHH. 1-Methylphenanthrene	J1. Ethyl methanesulfonate
C. 2-Chlorophenol	EE. 2,6-Dinitrotoluene	GGG. Benzo(b)fluoranthene	IIII. 1,4-Dioxane	K1. o,o',o"-Triethylphosphorothioate
D. 1,3-Dichlorobenzene	FF. 3-Nitroaniline	HHH. Benzo(k)fluoranthene	JJJJ. Acetophenone	L1. n-Phenylene diamine
E. 1,4-Dichlorobenzene	GG. Acenaphthene	III. Benzo(a)pyrene	KKKK. Atrazine	M1. 1,4-Naphthoquinone
F. 1,2-Dichlorobenzene	HH. 2,4-Dinitrophenol	JJJ. Indeno(1,2,3-cd)pyrene	LLLL. Benzaldehyde	N1. N-Nitro-o-toluidine
G. 2-Methylphenol	II. 4-Nitrophenol	KKK. Dibenz(a,h)anthracene	MMMM. Caprolactam	O1. 1,3,5-Trinitrobenzene
H. 2,2'-Oxybis(1-chloropropane)	JJ. Dibenzofuran	LLL. Benzo(g,h,i)perylene	NNNN. 2,6-Dichlorophenol	P1. Pentachlorobenzene
I. 4-Methylphenol	KK. 2,4-Dinitrotoluene	MMM. Bis(2-Chloroisopropyl)ether	OOOO. 1,2-Diphenylhydrazine	Q1. 4-Aminobiphenyl
J. N-Nitroso-di-n-propylamine	LL. Diethylphthalate	NNN. Aniline	PPPP. 3-Methylphenol	R1. 2-Naphthylamine
K. Hexachloroethane	MM. 4-Chlorophenyl-phenyl ether	OOO. N-Nitrosodimethylamine	QQQQ. 3&4-Methylphenol	S1. Triphenylene
L. Nitrobenzene	NN. Fluorene	PPP. Benzoic Acid	RRRR. 4-Dimethyldibenzothiophene (4MDT)	T1. Octachlorostyrene
M. Isophorone	OO. 4-Nitroaniline	QQQ. Benzyl alcohol	SSSS. 2/3-Dimethyldibenzothiophene (4MDT)	U1. Famphur
N. 2-Nitrophenol	PP. 4,6-Dinitro-2-methylphenol	RRR. Pyridine	TTTT. 1-Methyldibenzothiophene (1MDT)	V1. 1,4-phenylenediamine
O. 2,4-Dimethylphenol	QQ. N-Nitrosodiphenylamine	SSS. Benzidine	UUUU.. 2,3,4,6-Tetrachlorophenol	W1. Methapyrilene
P. Bis(2-chloroethoxy)methane	RR. 4-Bromophenyl-phenylether	TTT. 1-Methylnaphthalene	VVVV. 1,2,4,5-Tetrachlorobenzene	X1. Pentachloroethane
Q. 2,4-Dichlorophenol	SS. Hexachlorobenzene	UUU.Benzo(b)thiophene	WWWW.. 2-Picoline	Y1. 3,3'-Dimethylbenzidine
R. 1,2,4-Trichlorobenzene	TT. Pentachlorophenol	VVV.Benzonaphthothiophene	XXXX. 3-Methylcholanthrene	Z1. o-Toluidine
S. Naphthalene	UU. Phenanthrene	WWW.Benzo(e)pyrene	YYYY. a,a-Dimethylphenethylamine	A2. 1-Naphthylamine
T. 4-Chloroaniline	VV. Anthracene	XXX. 2,6-Dimethylnaphthalene	ZZZZ. Hexachloropropene	B2. 4-Aminobiphenyl
U. Hexachlorobutadiene	WW. Carbazole	YYY. 2,3,5-Trimethylnaphthalene	A1. N-Nitrosodiethylamine	C2. 4-Nitroquinoline-1-oxide
V. 4-Chloro-3-methylphenol	XX. Di-n-butylphthalate	ZZZ. Perylene	B1. N-Nitrosodi-n-butylamine	D2. Hexachloropene
W. 2-Methylnaphthalene	YY. Fluoranthene	AAAA. Dibenzothiophene	C1. N-Nitrosomethylethylamine	E2. Bis (2-chloro-1-methylethyl) ether
X. Hexachlorocyclopentadiene	ZZ. Pyrene	BBBB. Benzo(a)fluoranthene	D1. N-Nitrosomorpholine	F2. Bifenthrin
Y. 2,4,6-Trichlorophenol	AAA. Butylbenzylphthalate	CCCC. Benzo(b)fluorene	E1. N-Nitrosopyrrolidine	G2. Cyfluthrin
Z. 2,4,5-Trichlorophenol	BBB. 3,3'-Dichlorobenzidine	DDDD. cis/trans-Decalin	F1. Phenacetin	H2. Cypermethrin
AA. 2-Chloronaphthalene	CCC. Benzo(a)anthracene	EEEE. 1,1'-Biphenyl	G1. 2-Acetylaminofluorene	I2. Permethrin (cis/trans)
BB. 2-Nitroaniline	DDD. Chrysene	FFFF. Retene	H1. Pronamide	J2. 5-Nitro-o-toluidine

LDC #: 91136 E2a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a LCS required?

Y N N/A Were the LCS/LCSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	WG616762-2/3 LCS/D	X	34 (40-140)	34 (40-140)	( )	All	J/UJ/P (all ND)
		T	( )	39 (40-140)	( )		
		~~OO~~	49 (51-143)	49 (51-143)	( )		
		Y	( )	22 (30-130)	( )		
		~~C~~	( )	~~45 (27-133)~~	( )		
		HH	( )	0 (20-130)	( )		
	4,6-Dinitro-o-cresol		( )	19 (20-164)	( )		
		PPP	( )	0 (10-164)	( )		
		Y	( )	( )	18 (30)		J/UJ/P
		C	( )	( )	45 ( )		
		Q	( )	( )	48 ( )		
		N	( )	( )	52 ( )		
		II	( )	( )	71 ( )		
	4,6-Dinitro-o-cresol		( )	( )	74 ( )		
		TT	( )	( )	83 ( )		
		A	( )	( )	34 ( )		
		Z	( )	( )	56 ( )		
		PPP	( )	( )	20U ( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 54136 E2a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 13)
The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the target analytes identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of target analyte
C_x = Concentration of target analyte
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

11037

#	Standard ID	Calibration Date	Target Analyte Internal Standard)		Reported RRF (std)	Recalculated RRF (std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL 54124	3/22/22	A	(1st IS)	0.857	0.857	0.842	0.842	6.46	6.46
			T	(2nd IS)	0.123	0.123	0.120	0.120	6.0	6.01
			11	(3rd IS)	0.222	0.222	0.236	0.236	12.96	12.96
			XX	(4th IS)	1.174	1.174	1.153	1.153	10.23	10.23
			EEE	(5th IS)	see curve					
				(6th IS)						
2				(1st IS)						
				(2nd IS)						
				(3rd IS)						
				(4th IS)						
				(5th IS)						
				(6th IS)						
3				(1st IS)						
				(2nd IS)						
				(3rd IS)						
				(4th IS)						
				(5th IS)						
				(6th IS)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Method: 8270D

Calibration	System	Compound	Standard	(Y) Response	(X) Concentration
3/22/2022	GCMS SV124	EEE	1	0.03990	0.1
			2	0.24200	0.25
			3	0.53800	0.5
			4	0.84750	0.75
			5	1.47625	1.25
			6	3.05250	2.5
			7	4.68750	3.75

Regression Output		***Reported***
Constant	*-0.095474*	*-0.066997*
Std Err of Y Est		
R Squared	*0.999889*	*0.994414*
Degrees of Freedom		
X Coefficient(s)	*1.269447*	*0.860894*
Std Err of Coef.		
Correlation Coefficient	*0.999945*	
Coefficient of Determination (r^2)	*0.999889*	*0.994414*

LDC #: 54136E2a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF; RRF = continuing calibration RRF
A_x = Area of target analyte; A_{is} = Area of associated internal standard
C_x = Concentration of target analyte; C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV SV124	0839	A (1st IS)	0.842	0.833	0.833	1.1	1.1
			T (2nd IS)	0.120	0.125	0.125	4.2	4.2
			II (3rd IS)	0.236	0.262	0.262	11.0	11.0
			XX (4th IS)	1.153	1.279	1.279	10.9	10.9
			EEE (5th IS)	5.60	5.217	5.217	4.3	4.3
			(6th IS)					
2			(1st IS)					
			(2nd IS)					
			(3rd IS)					
			(4th IS)					
			(5th IS)					
			(6th IS)					
3			(1st IS)					
			(2nd IS)					
			(3rd IS)					
			(4th IS)					
			(5th IS)					
			(6th IS)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136E2a

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270 D)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	2.5	1.747	70	70	0
2-Fluorobiphenyl	↓	1.670	67	67	
Terphenyl-d14	↓	1.965	79	79	↓
Phenol-d5	5.0	2.675	54	54	
2-Fluorophenol	↓	2.993	60	60	
2,4,6-Tribromophenol	↓	3.511	70	70	↓

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					

LDC #: 54136E2a

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270)D

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

$$SSC = \frac{(Ax)(C_{IS})(Fv)(Df)}{(A_{IS})(RRF)(Vs \text{ or } Ws)(\%S/100)}$$

%Recovery = (SSC/SA)*100

RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where: A_X= Area of the target analyte; A_{IS}= Area for the specific internal standard; C_{IS} = Concentration of internal standard; Fv =Final volume of extract; Df= Dilution factor; RRF= Average relative response factor of the target analyte; Ws= Initial weight of the sample; %S= Percent Solid; SSC = Spiked sample concentration; LCS = Laboratory control sample; LCSD = Laboratory control sample duplicate; Vs= Initial volume of the sample

LCS/LCSD samples: WG916762-2/3

Compound	Spike Added (ug/L)		Spike Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol	5.0U	5.0U	2.058	1.474	~~60~~ 41	41	~~57~~ 29	29	~~5~~ 34	33
N-Nitroso-di-n-propylamine			2.901	2.847	58	50	57	57	2	2
4-Chloro-3-methylphenol			3.015	2.662	60	60	53	53	12	12
Acenaphthene			3.008	2.830	60	60	57	57	5	6
Pentachlorophenol			1.201	0.496	24	24	10	10	83	83
Pyrene			3.183	2.986	64	64	60	60	6	6

LDC #: 54136E2a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

$$\text{Concentration} = \frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the target analyte to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

V_i = Volume of extract injected in microliters (ul)

V_t = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. #1, XX

$$\text{Conc.} = \frac{(22208)(4.0)(1)(1000)}{(274954)(1.153)(275)}$$

$$= 1.0 \text{ ug/L}$$

#	Sample ID	Target Analyte	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Qualification
	#1	XX	1.0	1.0	

LDC #: 54136E2b
SDG #: L2212899
Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET
Category B

Date: 6/12/22
Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW846 Method 8270D-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A A	%D ≤ 20 ICV ≤ 30
IV.	Continuing calibration	A	CCV ≤ 20
V.	Laboratory Blanks	SW	
VI.	Field blanks	ND	EB = EQUIPMENT BLANK
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	L2212899-02 MS ID
IX.	Laboratory control samples	SW	LCS ID
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Target analyte quantitation	A	Results < RL > MDL = J det
XIII.	Target analyte identification	A	MI
XIV.	System performance	A	
XV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-84	L2212899-03	Water	03/10/22
2				
3				
4				
5				
6				
7				
8				
9				

Notes:

	WG1616761 - Blank						

LDC #: 54136E2h

VALIDATION FINDINGS CHECKLIST

Reviewer: FT

Method: Semivolatiles (EPA SW 846 Method 8270 D)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20% 15/30% and relative response factors (RRF) within method criteria?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20% 30%?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 20% and relative response factors (RRF) within method criteria?	✓			
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the blanks validation findings worksheet.		✓		
VI. Field blanks				
Were field blanks were identified in this SDG?	✓			
Were target analytes detected in the field blanks?		✓		
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any percent recoveries (%R) was less than 10%, was a reanalysis performed to confirm %R ?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	

Validation Area	Yes	No	NA	Findings/Comments
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
IX. Laboratory control samples				
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XI. Internal standards				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XII. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Target analyte identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

A. Phenol	CC. Dimethylphthalate	EEE. Bis(2-ethylhexyl)phthalate	GGGG. C30-Hopane	I1. Methyl methanesulfonate
B. Bis (2-chloroethyl) ether	DD. Acenaphthylene	FFF. Di-n-octylphthalate	HHHH. 1-Methylphenanthrene	J1. Ethyl methanesulfonate
C. 2-Chlorophenol	EE. 2,6-Dinitrotoluene	GGG. Benzo(b)fluoranthene	IIII. 1,4-Dioxane	K1. o,o',o"-Triethylphosphorothioate
D. 1,3-Dichlorobenzene	FF. 3-Nitroaniline	HHH. Benzo(k)fluoranthene	JJJJ. Acetophenone	L1. n-Phenylene diamine
E. 1,4-Dichlorobenzene	GG. Acenaphthene	III. Benzo(a)pyrene	KKKK. Atrazine	M1. 1,4-Naphthoquinone
F. 1,2-Dichlorobenzene	HH. 2,4-Dinitrophenol	JJJ. Indeno(1,2,3-cd)pyrene	LLLL. Benzaldehyde	N1. N-Nitro-o-toluidine
G. 2-Methylphenol	II. 4-Nitrophenol	KKK. Dibenz(a,h)anthracene	MMMM. Caprolactam	O1. 1,3,5-Trinitrobenzene
H. 2,2'-Oxybis(1-chloropropane)	JJ. Dibenzofuran	LLL. Benzo(g,h,i)perylene	NNNN. 2,6-Dichlorophenol	P1. Pentachlorobenzene
I. 4-Methylphenol	KK. 2,4-Dinitrotoluene	MMM. Bis(2-Chloroisopropyl)ether	OOOO. 1,2-Diphenylhydrazine	Q1. 4-Aminobiphenyl
J. N-Nitroso-di-n-propylamine	LL. Diethylphthalate	NNN. Aniline	PPPP. 3-Methylphenol	R1. 2-Naphthylamine
K. Hexachloroethane	MM. 4-Chlorophenyl-phenyl ether	OOO. N-Nitrosodimethylamine	QQQQ. 3&4-Methylphenol	S1. Triphenylene
L. Nitrobenzene	NN. Fluorene	PPP. Benzoic Acid	RRRR. 4-Dimethyldibenzothiophene (4MDT)	T1. Octachlorostyrene
M. Isophorone	OO. 4-Nitroaniline	QQQ. Benzyl alcohol	SSSS. 2/3-Dimethyldibenzothiophene (4MDT)	U1. Famphur
N. 2-Nitrophenol	PP. 4,6-Dinitro-2-methylphenol	RRR. Pyridine	TTTT. 1-Methyldibenzothiophene (1MDT)	V1. 1,4-phenylenediamine
O. 2,4-Dimethylphenol	QQ. N-Nitrosodiphenylamine	SSS. Benzidine	UUUU.. 2,3,4,6-Tetrachlorophenol	W1. Methapyrilene
P. Bis(2-chloroethoxy)methane	RR. 4-Bromophenyl-phenylether	TTT. 1-Methylnaphthalene	VVVV. 1,2,4,5-Tetrachlorobenzene	X1. Pentachloroethane
Q. 2,4-Dichlorophenol	SS. Hexachlorobenzene	UUU.Benzo(b)thiophene	WWWW.. 2-Picoline	Y1. 3,3'-Dimethylbenzidine
R. 1,2,4-Trichlorobenzene	TT. Pentachlorophenol	VVV.Benzonaphthothiophene	XXXX. 3-Methylcholanthrene	Z1. o-Toluidine
S. Naphthalene	UU. Phenanthrene	WWW.Benzo(e)pyrene	YYYY. a,a-Dimethylphenethylamine	A2. 1-Naphthylamine
T. 4-Chloroaniline	VV. Anthracene	XXX. 2,6-Dimethylnaphthalene	ZZZZ. Hexachloropropene	B2. 4-Aminobiphenyl
U. Hexachlorobutadiene	WW. Carbazole	YYY. 2,3,5-Trimethylnaphthalene	A1. N-Nitrosodiethylamine	C2. 4-Nitroquinoline-1-oxide
V. 4-Chloro-3-methylphenol	XX. Di-n-butylphthalate	ZZZ. Perylene	B1. N-Nitrosodi-n-butylamine	D2. Hexachloropene
W. 2-Methylnaphthalene	YY. Fluoranthene	AAAA. Dibenzothiophene	C1. N-Nitrosomethylethylamine	E2. Bis (2-chloro-1-methylethyl) ether
X. Hexachlorocyclopentadiene	ZZ. Pyrene	BBBB. Benzo(a)fluoranthene	D1. N-Nitrosomorpholine	F2. Bifenthrin
Y. 2,4,6-Trichlorophenol	AAA. Butylbenzylphthalate	CCCC. Benzo(b)fluorene	E1. N-Nitrosopyrrolidine	G2. Cyfluthrin
Z. 2,4,5-Trichlorophenol	BBB. 3,3'-Dichlorobenzidine	DDDD. cis/trans-Decalin	F1. Phenacetin	H2. Cypermethrin
AA. 2-Chloronaphthalene	CCC. Benzo(a)anthracene	EEEE. 1,1'-Biphenyl	G1. 2-Acetylaminofluorene	I2. Permethrin (cis/trans)
BB. 2-Nitroaniline	DDD. Chrysene	FFFF. Retene	H1. Pronamide	J2. 5-Nitro-o-toluidine

LDC #: 54136E26

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank analyzed for each matrix?
Y N N/A Was a method blank analyzed for each concentration preparation level?
Y N N/A Was a method blank associated with every sample?
Y N N/A Was the blank contaminated? If yes, please see qualification below.

Blank extraction date: 3/17/22 **Blank analysis date:** 3/18/22
Conc. units: ug/L Associated Samples: All

Compound	Blank ID								
	WG161676-1 Blank			1					
NN	0.03			0.05/0.104					

Blank extraction date: _____ **Blank analysis date:** _____
Conc. units: _____ Associated Samples: _____

Compound	Blank ID								

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as the phthalates and TICs noted above that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 54136E2b

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a LCS required?

Y N N/A Were the LCS/LCSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	WG1616761	TT	3 (40-140)	4 (40-140)	( )	All	J/R/P ND
	- WS ID		( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 54136E2b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)
The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the target analytes identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of target analyte
C_x = Concentration of target analyte
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

#	Standard ID	Calibration Date	Target Analyte / Internal Standard	Reported RRF (25.0 std)	Recalculated RRF (25.0 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL SV128	8/9/22	S (1st IS)	1.055	1.055	1.054	1.054	3.24	3.24
			GG (2nd IS)	1.364	1.364	1.334	1.334	1.60	1.60
			UU (3rd IS)	1.099	1.099	1.106	1.106	4.39	4.34
			DDD (4th IS)	1.346	1.346	1.323	1.323	5.21	5.21
			JJJ (5th IS)	1.105	1.105	1.138	1.138	6.87	6.87
			(6th IS)						
2			(1st IS)						
			(2nd IS)						
			(3rd IS)						
			(4th IS)						
			(5th IS)						
			(6th IS)						
3			(1st IS)						
			(2nd IS)						
			(3rd IS)						
			(4th IS)						
			(5th IS)						
			(6th IS)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136E26

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)
The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
A_x = Area of target analyte
C_x = Concentration of target analyte
RRF = continuing calibration RRF
A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ccv	3/18/22 1023	S (1st IS)	1.054	1.007	1.007	4.5	4.5
			GG (2nd IS)	1.354	1.325	1.325	0.7	0.7
			UU (3rd IS)	1.106	1.048	1.048	5.2	5.2
			DDD (4th IS)	1.323	1.247	1.247	5.7	5.7
			JJJ (5th IS)	1.138	1.17	1.17	2.8	2.8
			(6th IS)					
2	ccv	3/19/22 1251	↓ (1st IS)	↓	0.99	0.99	6.1	6.1
			(2nd IS)		1.33	1.33	0.3	0.3
			(3rd IS)		1.043	1.043	5.7	5.7
			(4th IS)		1.215	1.215	8.2	8.2
			(5th IS)		1.2	1.2	5.4	5.4
			(6th IS)					
3			(1st IS)					
			(2nd IS)					
			(3rd IS)					
			(4th IS)					
			(5th IS)					
			(6th IS)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136E2b

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270 D)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	500.0	1808.482	72	72	0
2-Fluorobiphenyl	↓	1792.287	72	72	
Terphenyl-d14		1831.151	73	73	
Phenol-d5	5000.0	2425.679	49	49	
2-Fluorophenol	↓	2474.086	49	49	
2,4,6-Tribromophenol			79	79	↓

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					

LDC #: 54136E2b

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

$$SSC = \frac{(Ax)(C_{IS})(Fv)(Df)}{(A_{IS})(RRF)(Vs \text{ or } Ws)(\%S/100)}$$

%Recovery = (SSC/SA)*100

RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where: A_X= Area of the target analyte
A_{IS}= Area for the specific internal standard
C_{IS} = Concentration of internal standard
Fv =Final volume of extract
Df= Dilution factor
RRF= Average relative response factor of the target analyte
Ws= Initial weight of the sample
%S= Percent Solid
SSC = Spiked sample concentration
LCS = Laboratory control sample
LCSD = Laboratory control sample duplicate
Vs= Initial volume of the sample

LCS/LCSD samples: WG161676-2/3

Compound	Spike Added (ug/L)		Spike Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol										
N-Nitroso-di-n-propylamine										
4-Chloro-3-methylphenol	100	100	713.024	653.5 53%						
Acenaphthene	3.6	3.6	2.6	2.4	71	71	65	65	9	9
Pentachlorophenol										
Pyrene	3.6	3.6	2.7	2.5	75	75	69	69	8	8
	100	100	747.449	692.098						

LDC #: 54136E2b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270A)

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

$$\text{Concentration} = \frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$$

A_x	=	Area of the characteristic ion (EICP) for the target analyte to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
V_o	=	Volume or weight of sample extract in milliliters (ml) or grams (g).
V_i	=	Volume of extract injected in microliters (ul)
V_t	=	Volume of the concentrated extract in microliters (ul)
Df	=	Dilution Factor.
%S	=	Percent solids, applicable to soil and solid matrices only.
2.0	=	Factor of 2 to account for GPC cleanup

1/275

Example:

Sample I.D. #1, JJJ

$$\text{Conc.} = \frac{604\ (4000.0)\ (1)}{37821\ (1.138)\ (275)}$$

$$= 0.204\ ug/L$$

#	Sample ID	Target Analyte	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Qualification
	#1	JJJ	0.20	0.204	

LDC #: 54136E2c
SDG #: L2212899
Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET
Category B

Date: 6/12/22
Page: 1 of 1
Reviewer: EJ
2nd Reviewer: KK

METHOD: GC/MS 1,4-Dioxane (EPA SW846 Method 8270D-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A /A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A A	%D/RSD ≤ 20 ICV ≤ 30
IV.	Continuing calibration	A	CCV ≤ 20
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	EB = EQUIPMENT BLANK
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	L2212899-02 MS ID
IX.	Laboratory control samples	A	LCS ID
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Target analyte quantitation	A	ND Result < RL > MDL
XIII.	Target analyte identification	A	
XIV.	System performance	A	
XV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-84	L2212899-03	Water	03/10/22
2				
3				
4				
5				
6				
7				
8				
9				

Notes:

	WG1615435 - 1 Blank						

Method: Semivolatiles (EPA SW 846 Method 8270 D)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20% 15/30% and relative response factors (RRF) within method criteria?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20% 30%?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 20% and relative response factors (RRF) within method criteria?	✓			
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the blanks validation findings worksheet.		✓		
VI. Field blanks				
Were field blanks were identified in this SDG?	✓			
Were target analytes detected in the field blanks?		✓		
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any percent recoveries (%R) was less than 10%, was a reanalysis performed to confirm %R ?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	✓			

Validation Area	Yes	No	NA	Findings/Comments
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
IX. Laboratory control samples				
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XI. Internal standards				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XII. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Target analyte identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?	•		✓	
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

A. Phenol	CC. Dimethylphthalate	EEE. Bis(2-ethylhexyl)phthalate	GGGG. C30-Hopane	I1. Methyl methanesulfonate
B. Bis (2-chloroethyl) ether	DD. Acenaphthylene	FFF. Di-n-octylphthalate	HHHH. 1-Methylphenanthrene	J1. Ethyl methanesulfonate
C. 2-Chlorophenol	EE. 2,6-Dinitrotoluene	GGG. Benzo(b)fluoranthene	IIII. 1,4-Dioxane	K1. o,o',o''-Triethylphosphorothioate
D. 1,3-Dichlorobenzene	FF. 3-Nitroaniline	HHH. Benzo(k)fluoranthene	JJJJ. Acetophenone	L1. n-Phenylene diamine
E. 1,4-Dichlorobenzene	GG. Acenaphthene	III. Benzo(a)pyrene	KKKK. Atrazine	M1. 1,4-Naphthoquinone
F. 1,2-Dichlorobenzene	HH. 2,4-Dinitrophenol	JJJ. Indeno(1,2,3-cd)pyrene	LLLL. Benzaldehyde	N1. N-Nitro-o-toluidine
G. 2-Methylphenol	II. 4-Nitrophenol	KKK. Dibenz(a,h)anthracene	MMMM. Caprolactam	O1. 1,3,5-Trinitrobenzene
H. 2,2'-Oxybis(1-chloropropane)	JJ. Dibenzofuran	LLL. Benzo(g,h,i)perylene	NNNN. 2,6-Dichlorophenol	P1. Pentachlorobenzene
I. 4-Methylphenol	KK. 2,4-Dinitrotoluene	MMM. Bis(2-Chloroisopropyl)ether	OOOO. 1,2-Diphenylhydrazine	Q1. 4-Aminobiphenyl
J. N-Nitroso-di-n-propylamine	LL. Diethylphthalate	NNN. Aniline	PPPP. 3-Methylphenol	R1. 2-Naphthylamine
K. Hexachloroethane	MM. 4-Chlorophenyl-phenyl ether	OOO. N-Nitrosodimethylamine	QQQQ. 3&4-Methylphenol	S1. Triphenylene
L. Nitrobenzene	NN. Fluorene	PPP. Benzoic Acid	RRRR. 4-Dimethyldibenzothiophene (4MDT)	T1. Octachlorostyrene
M. Isophorone	OO. 4-Nitroaniline	QQQ. Benzyl alcohol	SSSS. 2/3-Dimethyldibenzothiophene (4MDT)	U1. Famphur
N. 2-Nitrophenol	PP. 4,6-Dinitro-2-methylphenol	RRR. Pyridine	TTTT. 1-Methyldibenzothiophene (1MDT)	V1. 1,4-phenylenediamine
O. 2,4-Dimethylphenol	QQ. N-Nitrosodiphenylamine	SSS. Benzidine	UUUU.. 2,3,4,6-Tetrachlorophenol	W1. Methapyrilene
P. Bis(2-chloroethoxy)methane	RR. 4-Bromophenyl-phenylether	TTT. 1-Methylnaphthalene	VVVV. 1,2,4,5-Tetrachlorobenzene	X1. Pentachloroethane
Q. 2,4-Dichlorophenol	SS. Hexachlorobenzene	UUU.Benzo(b)thiophene	WWWW.. 2-Picoline	Y1. 3,3'-Dimethylbenzidine
R. 1,2,4-Trichlorobenzene	TT. Pentachlorophenol	VVV.Benzonaphthothiophene	XXXX. 3-Methylcholanthrene	Z1. o-Toluidine
S. Naphthalene	UU. Phenanthrene	WWW.Benzo(e)pyrene	YYYY. a,a-Dimethylphenethylamine	A2. 1-Naphthylamine
T. 4-Chloroaniline	VV. Anthracene	XXX. 2,6-Dimethylnaphthalene	ZZZZ. Hexachloropropene	B2. 4-Aminobiphenyl
U. Hexachlorobutadiene	WW. Carbazole	YYY. 2,3,5-Trimethylnaphthalene	A1. N-Nitrosodiethylamine	C2. 4-Nitroquinoline-1-oxide
V. 4-Chloro-3-methylphenol	XX. Di-n-butylphthalate	ZZZ. Perylene	B1. N-Nitrosodi-n-butylamine	D2. Hexachloropene
W. 2-Methylnaphthalene	YY. Fluoranthene	AAAA. Dibenzothiophene	C1. N-Nitrosomethylethylamine	E2. Bis (2-chloro-1-methylethyl) ether
X. Hexachlorocyclopentadiene	ZZ. Pyrene	BBBB. Benzo(a)fluoranthene	D1. N-Nitrosomorpholine	F2. Bifenthrin
Y. 2,4,6-Trichlorophenol	AAA. Butylbenzylphthalate	CCCC. Benzo(b)fluorene	E1. N-Nitrosopyrrolidine	G2. Cyfluthrin
Z. 2,4,5-Trichlorophenol	BBB. 3,3'-Dichlorobenzidine	DDDD. cis/trans-Decalin	F1. Phenacetin	H2. Cypermethrin
AA. 2-Chloronaphthalene	CCC. Benzo(a)anthracene	EEEE. 1,1'-Biphenyl	G1. 2-Acetylaminofluorene	I2. Permethrin (cis/trans)
BB. 2-Nitroaniline	DDD. Chrysene	FFFF. Retene	H1. Pronamide	J2. 5-Nitro-o-toluidine

LDC #: 54136E2C

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270 R)
The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the target analytes identified below using the following calculations:

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of target analyte
C_x = Concentration of target analyte
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

#	Standard ID	Calibration Date	Target Analyte / Internal Standard	Reported RRF (1000 std)	Recalculated RRF (100 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	2/22/22	1,4-Dioxane (1st IS)	~~0.527~~ FM	1.198	~~0.518~~ FM	1.178	~~4.54~~ FM	2.47
			(2nd IS)	1.198		1.178		2.47	
			(3rd IS)						
			(4th IS)						
			(5th IS)						
			(6th IS)						
2			(1st IS)						
			(2nd IS)						
			(3rd IS)						
			(4th IS)						
			(5th IS)						
			(6th IS)						
3			(1st IS)						
			(2nd IS)						
			(3rd IS)						
			(4th IS)						
			(5th IS)						
			(6th IS)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136E2C

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)
The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
A_x = Area of target analyte
C_x = Concentration of target analyte
RRF = continuing calibration RRF
A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ccv	3/16/22 0002	1,4-Dioxane (1st IS)	1.178	1.323	1.323	12.3	12.3
			(2nd IS)					
			(3rd IS)					
			(4th IS)					
			(5th IS)					
			(6th IS)					
2			(1st IS)					
			(2nd IS)					
			(3rd IS)					
			(4th IS)					
			(5th IS)					
			(6th IS)					
3			(1st IS)					
			(2nd IS)					
			(3rd IS)					
			(4th IS)					
			(5th IS)					
			(6th IS)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136E2e

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270 D

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID:_____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
~~Nitrobenzene-d5~~ 1,4-Dioxane	500	~~182.766~~	34	34	0
2-Fluorobiphenyl		171.139			
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
~~2,4,6-Tribromophenol~~					

Sample ID:_____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					

LDC #: 54136E2C

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

$$SSC = \frac{(Ax)(C_{IS})(Fv)(Df)}{(A_{IS})(RRF)(Vs \text{ or } Ws)(\%S/100)}$$

%Recovery = (SSC/SA)*100

RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where: A_x= Area of the target analyte
A_{IS}= Area for the specific internal standard
C_{IS} = Concentration of internal standard
Fv =Final volume of extract
Df= Dilution factor
RRF= Average relative response factor of the target analyte
Ws= Initial weight of the sample
%S= Percent Solid
SSC = Spiked sample concentration
LCS = Laboratory control sample
LCSD = Laboratory control sample duplicate
Vs= Initial volume of the sample

LCS/LCSD samples: WG615435-2/3

Compound	Spike Added (ng/ml)		Spike Concentration (ng/ml)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol										
N-Nitroso-di-n-propylamine										
4-Chloro-3-methylphenol										
Acenaphthene										
Pentachlorophenol										
Pyrene										
1,4-Dioxane	500	500	619.503	625.6	124	124	125	125	1	1

LDC #: 54136 E2e

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 5)

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

$$\text{Concentration} = \frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the target analyte to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

V_i = Volume of extract injected in microliters (ul)

V_t = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. LCS (WG161935-2) 1,4-Dioxane

Conc. = $\frac{27301\ (500)\ (2.5)\ (1000)}{18707\ (1.178)\ (250)}$

= F1 ~~619.503~~ 6194 ng/L
M

2.5/250ml

#	Sample ID	Target Analyte	Reported Concentration ~~(ng/ml)~~ ( )	Calculated Concentration ( )	Qualification
	LCS	1,4-Dioxane	619.503 ng/ml		
			6200 ng/L	~~6200 ng~~ 5 / L 6194	

LDC #: 54136E3a

SDG #: L2212899

Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET

Category B

Date: 6/12/22

Page: 1 of 1

Reviewer:

2nd Reviewer:

METHOD: GC Organochlorine Pesticides (EPA SW-846 Method 8081B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	GC Instrument Performance Check	A	
III.	Initial calibration/ICV	A/A	%RSD ≤ 20.1 ICV ≤ 20
IV.	Continuing calibration	SW	CCV ≤ 20
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	EB = EQUIPMENT BLANK
VII.	Surrogate spikes /15	A/A	
VIII.	Matrix spike/Matrix spike duplicates	A	L2212899-02 MS MD
IX.	Laboratory control samples	A	LCS/LCSD
X.	Field duplicates	N	
XI.	Target analyte quantitation	A	ND Result < RL > MDL
XII.	Target analyte identification	A	
XIII.	System Performance	A	
XIV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-84	L2212899-03	Water	03/10/22
2				
3				
4				
5				
6				
7				
8				
9				
10				

Notes:

WG1616582 - 1 BLANK

LDC #: 54136E3a

VALIDATION FINDINGS CHECKLIST

Method: Pesticides (EPA SW 846 Method 8081 B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/ECD Instrument performance check				
Was the instrument performance found to be acceptable?	✓			
Were Evaluation mix standards analyzed prior to the initial calibration and at beginning of each 12-hour shift?	✓			
Were endrin and 4,4'-DDT breakdowns ≤ 15% for individual breakdown in the Evaluation mix standards?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
Were the RT windows properly established?	✓			
IIIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%?		✓		
Were all the retention times within the acceptance windows?	✓			
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
VI. Field blanks				
Were field blanks identified in this SDG?	✓			
Were target compounds detected in the field blanks?		✓		

Validation Area	Yes	No	NA	Findings/Comments
VII. ***Surrogate spikes/Internal Standards***				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any percent recovery (%R) was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
Were internal standard area counts within ± 50% of the average area calculated during calibration?	✓			
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
IX. Laboratory control samples				
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target compounds detected in the field duplicates?			✓	
XI. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions, dry weight factors, and clean-up activities applicable to level IV validation?	✓			
Were relative percent difference (RPD) of the results between two columns ≤ 40%?	✓			
XII. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:_____

LDC #: 54136E3e

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Reviewer: FT

METHOD: ✓ GC __ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
What type of continuing calibration calculation was performed? ___%D or ___%R
Y N N/A Were continuing calibration standards analyzed at the required frequencies?
Y N N/A Did the continuing calibration standards meet the %D / %R validation criteria of ≤20.0% / 80-120%?
Level IV Only
Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Detector/ Column	Compound	%D (Limit ≤ 20.0)	RT (limit)	Associated Samples	Qualifications
	3/18/22 1055	CCV	CLP2	O	20.1		All ↓	J/UJ/A ND ↓
				R	20.7			

LDC #: 54136E3r

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

6 - 17

#	Standard ID	Calibration Date	Compound	Reported CF (5.0 std)	Recalculated CF (5.0 std)	Reported CF (initial)	Recalculated CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL PEST 15	7/29/21	gamma BHC	1.488	1.488	1.436	1.436	7.72	7.72
			4,4-DDT	1.199	1.199	1.144	1.144	6.19	6.19
			clp1						
2			gamma BHC	1.436	1.436	1.423	1.423	6.28	6.28
			4,4'-DDT	1.093	1.093	1.068	1.068	6.36	6.36
			clp 2						
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136E3a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF -CF)/ave.CF

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ICAL)/ CCV Conc.	Reported CF/ Conc. CCV	Recalculated CF/ Conc. CCV	Reported %D	Recalculated %D
1	CCV	3/18/22 1055	gamma BHC	1.436	1.466	1.466	2.1	2.1
			4,4-DDT	1.144	1.057	1.057	7.6	7.6
				1.423	1.326	1.326	6.8	6.6
			↓	1.068	0.853	0.853	20.1	20.1
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136E3a

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
PCB1	CLP1	50.0	27.072	54 54	54	0
PCB2	CLP2		32.988	66 66	66	
TCMX1	CLP1	↓	27.542	55	55	↓
TCMX1	CLP2	↓	33.120	66	66	↓

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 54136E3c

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: ___ GC ___ HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC/SA)
RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where SSC = Spiked sample concentration; LCS = Laboratory Control Sample; SA = Spike added; LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: WG616582 -2/3

Compound	Spike Added (ng/L)		Spike Sample Concentration (ng/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
gamma BHC	50	50	48.140	50.711	96	96	101	101	5	5
4,4'-DDT	50	↓	49.798	53.302	100	100	107	107	7	7

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136E3a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. LCS WG1616582-2 Compound Name 4,4'-DDT

Concentration = $\frac{546.9 \times 10^6 \ (25.0) \ (1)}{240.0 \times 10^6 \ (1.144) \ (1.0)}$ = 0.35569

V 1.40

#	Sample ID	Compound	Reported Concentrations (ug/L)	Recalculated Results Concentrations (ug/L)	Qualifications
	LCS	4,4'-DDT	0.352	0.35569	

Comments:

LDC #: 54136E3b
SDG #: L2212899
Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET
Category B

Date: 6/12/22
Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Initial calibration/ICV	A / A	%D PSD ≤ 20 ICV ≤ 20
III.	Continuing calibration	A	CCV ≤ 20
IV.	Laboratory Blanks	A	
V.	Field blanks	NP	EB = EQUIPMENT BLANK
VI.	Surrogate spikes 1/2	A/A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples resLP	A	L2212899-02 MS ID
IX.	Field duplicates	N	
X.	Target analyte quantitation	A	no Results < RL > MDL (MI)
XI.	Target analyte identification	A	
XII	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-84	L2212899-03	Water	03/10/22
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

Notes:

-	WG1621613-1 BLANK						
-	WG1621002-1						

LDC #: 54136E3b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT

Method: ✓GC __HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?			✓	
Were the RT windows properly established?	✓			
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
III. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
Were all the retention times within the acceptance windows?	✓			
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
V. Field Blanks				
Were field blanks identified in this SDG?	✓	NA		
Were target analytes detected in the field blanks?		✓		
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VIII. Laboratory control samples				
Was an LCS analyzed per analytical or extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			

Validation Area	Yes	No	NA	Findings/Comments
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
X. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target analyte identification				
Were the retention times of reported detects within the RT windows?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:_____

LDC #: 91136 E3h

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (1000 std)	Recalculated CF (1000 std)	Reported CF (initial)	Recalculated CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL PEST 12	10/20/21	1260-1 cup1	0.057	0.057	0.057	0.057	11.05	11.05
			1260-1 cup2	0.063	0.063	0.065	0.065	10.94	10.94
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136E3h

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. CF -CF)/ave.CF

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of target analyte
C = Concentration of target analyte

#	Standard ID	Calibration Date	Target Analyte	Average CF(Ical)/ CCV Conc.	Reported CF/ Conc. CCV	Recalculated CF/ Conc. CCV	Reported %D	Recalculated %D
1	CCV	3/30/22 0709	1260-1 cal1	0.057	0.064	0.064	12.3	12.3
			1260-1 cal2	0.065	0.072	0.072	10.8	10.8
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136E3b

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
TCMX1	wp1	200	10.953	55	55	0
TCMX2	2	↓	10.789	54	54	
DCB1	w1		16.95	85	85	↓
DCB2	2	↓	15.366	77	77	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C`	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 54136 E3b

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

%Recovery = 100 * (SSC/SA)
RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where SSC = Spiked sample concentration
LCS = Laboratory Control Sample

SA = Spike added
LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: WG162002-2/3 S/14U

Compound	Spike Added (ug/L)		Spike Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Aroclor 1260	250	250	208.268	200.289	83	83	80	80	4	4

Comments: _____

LDC #: 54136E3b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

Example: WG162100Z-2

Sample ID. ~~WG126613-2~~ LCS ; Aroclor 1260

A= Area or height of the target analyte to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the target analyte In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Concentration = 208,268 (1) / (140) =

= 1.4876

#	Sample ID	Target analyte	Reported Concentrations (ug/L)	Recalculated Results Concentrations (ug/L)	Qualifications
	LCS	Aroclor 1260	~~1.52~~	1.4876	
			1.49		
	1260-1= 61892921 (25.0) / 125.2x10^6 (0.05734)		215.534	1260-1 = 215.534	
				212.470	
				204.973	
				202.594	
				205.769	
				208.268	

Comments:

LDC #: 54136E96 **VALIDATION COMPLETENESS WORKSHEET** Date: 06/27/22
SDG #: L2212899 Category B Page: 1 of 1
Laboratory: Alpha Analytical, Inc., Westborough, MA Reviewer: SVG
2nd Reviewer: KK

METHOD: LC/MS Perfluoroalkyl & Polyfluoroalkyl Substances (EPA Method 537M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	LC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/SW	r² TV ≤ 30/50% IV ≤ 30%
IV.	Continuing calibration/ISC	A	%D ≤ 30% ISC ≤ 50%
V.	Laboratory Blanks	A	
VI.	Field blanks	SW	EB = EQUIPMENT BLANK (Same SDG) ~~FB = FIELD BLANK~~
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	N	
X.	Labeled Compounds	SW	
VI.	Target analyte quantitation	A	Results <RL >MDL = J dets
XII.	Target analyte identification	SW	
XIII.	System performance	A	
XIV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-84	L2212899-03	Water	03/10/22
2				
3				
4				
5				
6				
7				
8				
9				
10				

Notes:

	WG1617787-1 BLANK						

Method: LC/MS PFAS (EPA Method 537M)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	√			
Was cooler temperature criteria met?	√			
II. LC/MS Instrument performance check				
Were the instrument performance reviewed and found to be within the validation criteria?	√			
III. Initial calibration and Initial Calibration Verification				
Did the laboratory perform a 5 point calibration prior to sample analysis?	√			
Were all percent relative standard deviations (%RSD) ≤ 20%?			√	
Was a curve fit used for evaluation? If yes, did the initial calibration meet the coefficient of determination (r^2) criteria of ≥ 0.990?	√			
Were all analytes within 70-130% or percent differences (%D) ≤30% of their true value for each calibration standard except the lowest point (50-150%)?	√			
Was the signal to noise (S/N) ratio for all compounds within the validation criteria?	√			
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	√			
Were all percent differences (%D) ≤ 30%?		✓		
IV. Continuing calibration and Instrument Sensitivity Check				
Was a continuing calibration analyzed prior to sample analysis, after every 10 samples and at the end of the analytical sequence?	√			
Were all percent differences (%D) of the continuing calibration ≤ 30%?	√			
Were all the retention times within the acceptance windows?	√			
Was the signal to noise (S/N) ratio for all compounds within the validation criteria?	√			
Were all percent differences (%D) of the Instrument Sensitivity Check ≤ 50%?	√			
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	√			
Was a laboratory blank analyzed for each matrix and concentration?	√			
Was there contamination in the laboratory blanks?		√		
VI. Field blanks				
Were field blanks identified in this SDG?	√			
Were target compounds detected in the field blanks?	✓			
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?		√		
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			√	

Validation Area	Yes	No	NA	Findings/Comments
VIII. Laboratory control samples				
Was an LCS analyzed per extraction batch for this SDG?	√			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	√			
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target compounds detected in the field duplicates?			✓	
X. Labeled compounds				
Were labeled compound percent recoveries (%R) within the QC limits?		✓		
XI. Compound quantitation				
Did the laboratory reporting limits (i.e. DL, LOD, LOQ) meet the QAPP?	√			
Did reported results include both branched and linear isomers?	√			
Were the correct ion transition, labeled compound and relative response factor (RRF) used to quantitate the compound?	√			
Were compound quantitation and reporting limits adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	√			
XII. Target compound identification				
Was the signal to noise (S/N) ratio for all compounds within the validation criteria?	√			
Were two transitions and the ion transition ratio per analyte monitored and documented with the exception of PFBA and PFPeA?	√			
Were ion ratios within QC limits?		✓		
XIII. System performance				
System performance was found to be acceptable.	√			
XIV. Overall assessment of Data				
Overall assessment of data was found to be acceptable.	√			

TARGET COMPOUND WORKSHEET

METHOD: PFAS

A. Perfluorobutanoic acid (PFBA)	X. 8:2 Fluorotelomer sulfonate (8:2 FTS)	
B. Perfluoropentanoic acis (PFPeA)	Y. 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	
C. Perfluorohexanoic acid (PFHxA)	Z. HFPO-DA (GenX)	
D. Perfluoroheptanoic acid (PFHpA)	AA. 9Cl-PF3ONS	(F-53B Major)
E. Perfluorooctanoic acid (PFOA)	BB. 11Cl-PF3OUdS	(F-53B Minor)
F. Perfluorononanoic acid (PFNA)	CC. Hexafluoropropylene oxide dimer acid (HFPO-DA)	
G. Perfluorodecanoic acid (PFDA)	DD. 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	
H. Perfluoroundecanoic acid (PFUnDA)	EE. 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	
I. Perfluorododecanoic acid (PFDoA)	FF. 4:2 Fluorotelomersulfonic acid	
J. Perfluorotridecanoic acid (PFTrDA)	GG. 6:2 Fluorotelomersulfonic acid	
K. Perfluorotetradecanoic acid (PFTeDA)	HH. 8:2 Fluorotelomersulfonic acid	
L. Perfluorobutanesulfonic acid (PFBS)	II. 1H,1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)	
M. Perfluoropentanesulfonic acid (PFPeS)	JJ. 1H,1H, 2H, 2H- Perfluorooctanesulfonic acid (6:2 FTS)	
N. Perfluorohexanesulfonic acid (PFHxS)	KK. 1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	
O. Perfluoroheptanesulfonic acid (PFHpS)	LL. N-Methylperfluorooctanesulfonamide (NMeFOSA)	
P. Perfluorooctanesulfonic acid (PFOS)	MM. 3:3 Fluorotelomer carboxylate (3:3 FTCA)	
Q. Perfluorononanesulfonic acid (PFNS)	NN. 5:3 Fluorotelomer carboxylate (5:3 FTCA)	
R. Perfluorodecanesulfonic acid (PFDS)	OO. 7:3 Fluorotelomer carboxylate (7:3 FTCA)	
S. Perfluorooctanesulfonamide (PFOSA)	PP. Perfluorooctadecanoic acid (PFODA)	
T. N-Methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)		
U. N-Ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)		
V. 4:2 Fluorotelomer sulfonate (4:2 FTS)		
W. 6:2 Fluorotelomer sulfonate (6:2 FTS)		

LDC #: 54176E96

VALIDATION FINDINGS WORKSHEET
Initial Calibration Verification

Page: 1 of 1
Reviewer: JVG

METHOD: LC/MS PFOS/PFOAs (EPA Method 537M)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was an initial calibration verification standard analyzed after calibration for each instrument?

Y N N/A Were all initial calibration verification percent differences (%D) ≤30%?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤30%)	Associated Samples	Qualifications
	03/07/22	I5756	K T	32.7	All	J/UJ/A (T)
			U	32.4	↓	↓ (U)

Ref ND

ICV.wpd

LDC #: 54136 E96

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: JVG

METHOD: LC/MS PFAS (EPA Method 537M)

Y N N/A Were field blanks identified in this SDG?

Y N N/A Were target compounds detected in the field blanks?

Blank units: ng/L **Associated sample units:** ng/L

Sampling date: 03/10/22

Field blank type: (circle one) Trip Blank/Field Blank / Rinsate / Other: EB Associated Samples: All

Compound	Blank ID	Sample Identification								
EQUIPMENT BLANK		1								
B	0.368	1.56/2.7 J								

Blank units: _____ **Associated sample units:** _____

Sampling date: _____

Field blank type: (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: _____

Compound	Blank ID	Sample Identification								

LDC #: 54136E96

VALIDATION FINDINGS WORKSHEET
Labeled Compounds

Reviewer: JVG

METHOD: LC/MS PFAS (EPA 537M)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Were all labeled compound recoveries within the QC criteria?

#	Sample ID	Labeled Compound	Limits (50-150%/25-150%*)	Qualifications
	1	M2- JJ	192 (50-150?)	J/UJ (P) (JJ)

*Poor performers: PFBA PFPeA 6FTS 8FTS 4FTS PFOSA

LDC#: 54136E96

VALIDATION FINDINGS WORKSHEET
Target Analyte Identification

Reviewer: JVG

METHOD: LC/MS (EPA Method 537M)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was the signal to noise (S/N) ratio for all compounds within the validation criteria?
Y N N/A Were two transitions and the ion transition ratio per analyte monitored and documented with the exception of PFBA and PFPeA?
Y (N) N/A Were ion ratios within QC limits?

#	Date	Sample ID	Compound	Finding Ion ratio (Limit)	Qualifications
		1		Results flagged "F" by the laboratory due to ion ratio outside QC limits (value is EMPC)	Jdets/A

Comments: _____

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: LC/MS PFCs (EPA Method 537Mod)

Calibration Date	Instrument	Compound	Standard	(Y) Area ratio	(X) Conc ratio	CF
3/7/2022	LCMS01	L-PFOA	0.5	0.06491	0.050	1.298
			1	0.11872	0.100	1.187
		M8PFOA	2.5	0.22422	0.200	1.121
			5	0.52471	0.500	1.049
			10	1.13520	1.000	1.135
			25	2.55797	2.500	1.023
			50	5.71872	5.000	1.144
			100	12.21150	10.000	1.221
			250	30.18564	25.000	1.207
					Ave	1.137

Regression Output	Calculated	Reported
Constant	0.000000	0.000000
R Squared	0.998183	0.998136
X Coefficient(s)	1.21205305	1.189210
Correlation Coefficient	0.999091	
Coefficient of Determination (r^2)	0.998183	0.998136

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Method: PFCs (EPA Method 537M)

Date	Instrument	Compound	Standards	(Y) Response Ratio	(X) Conc. Ratio	(X^2) Conc. Ratio
3/7/2022	LCMS01	L-PFOS (M8PFOS)	0.394	0.0404	0.04	0.0016
			0.788	0.0701	0.08	0.0062
			1.576	0.1386	0.16	0.0248
			3.938	0.3310	0.39	0.1551
			7.880	0.7280	0.79	0.6209
			19.698	1.6311	1.97	3.8799
			39.400	3.8978	3.94	15.5236
			78.813	7.6881	7.88	62.1141
			197.000	18.7558	19.70	388.0900

Regression Output

			Reported
Constant	c =	0.0000	0.0000
R Squared		0.9997743	0.998483
X Coefficient(s)	a =	9.75720E-01	9.42137E-01
	b =	-1.1714E-03	7.55257E-05
Correlation Coefficient		0.999887	
Coefficient of Determination (r^2)	r^ 2	0.999774	

LDC#: 54136E96

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Calculation Verification

Reviewer: JVG

METHOD: LC/MS PFCs (EPA Method 537Mod)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
RRF = (Ax)(Cis)/(Ais)(Cx)

Where:
ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
Ax = Area of compound
Cx = Concentration of compound,
Ais = Area of associated internal standard
Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	Conc (Actual)	Reported Conc (CCV)	Recalculated Conc (CCV)	Reported % R	Recalculated % R
1	WG1619751-6,537IMED	3/26/2022	PFOA (M8PFOA)	10.000	7.987	7.987	79.9	79.9
			PFOS (M8PFOS)	7.880	6.244	6.244	79.2	79.2

LDC #: 54136 E96

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: JVG

METHOD: LC/MS PFAS (EPA Method 537)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA Where: SSC = Spike concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC) LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: WG616777-2 LCS

Compound	Spike Added (ng/L)		Spike Concentration (ng/L)		LCS		LCSD		LCS/LCSD	
					Percent Recovery		Percent Recovery		RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
PFOA	40	NA	39.6	NA	99	99				
PFOS	37.1	"	44.4	"	120	120				

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136 E96

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: JVG

METHOD: LC/MS PFAS (EPA Method 537M)

The concentration of the sample was calculated for the compound identified below using the following calculation:

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

V_i = Volume of extract injected in microliters (ul)

V_t = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. 1, PFOA:

X ~~Conc.~~ = $\frac{\left[\left(\frac{4909}{73422}\right)(10)\right]}{(1.18921)} = 0.562$

final conc. = $\frac{(0.562)(1\ mL)(1000)}{(180.42g)} = 3.11\ ng/L$

#	Sample ID	Compound	Reported Concentration (ng/L)	Calculated Concentration (ng/L)	Qualification
	1	PFOA	3.11	3.11	---

Site:	737 4th Ave, Brooklyn, NY
Laboratory:	Alpha Analytical, Inc., Westborough, MA
Report No.:	L2212899
Reviewer:	An Le and Kevin Kha/Laboratory Data Consultants for P.W. Grosser Consulting
Date:	July 7, 2022

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
MW-84	L2212899-03	Metals
MW-84F	L2212899-03F	Metals

Samples appended with "F" were analyzed for dissolved metals

Associated QC Samples(s):
Field/Trip Blanks: Equipment Blank
Field Duplicate pair: None Associated

The above-listed water samples were collected on March 10, 2022 and were analyzed for metals by SW-846 methods 6020B/7470A. The data validation was performed in accordance with the USEPA Region 2 *Standard Operating Procedure for the Evaluation of Metals for the Contract Laboratory Program,* SOP HW-3b/c, Revision 1 (September 2016), and the USEPA *Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review,* EPA 542-R-20-006 (November 2020), modified as necessary to accommodate the non-CLP methodologies used.

The inorganic data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness
- Holding Times and Sample Preservation
- Instrument Calibration
- Contract Required Quantitation Limit (CRQL) Standard Recoveries
- Blank Analysis Results
- Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Duplicate Results
- Laboratory Control Sample (LCS)
- Serial Dilution Results
- Internal Standards
- Field Duplicate Results
- Detection Limits Results
- Sample Quantitation Results

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

ICP-MS Tunes

All criteria were met.

Instrument Calibration

All criteria were met.

CRQL Standard Recoveries

All criteria were met.

Blank Results

Analytes were detected below the reporting limits in the laboratory blank samples. The following table summarizes the contamination and validation actions taken.

Blank ID	Analyte	Level Detected	Action Level	Associated Samples
PB (prep blank)	Thallium	0.00026 mg/L	RL	MW-84
	Mercury	0.00016 mg/L	RL	
ICB/CCB	Iron	52.2 ug/L	RL	MW-84
	Sodium	47.8 ug/L	RL	
	Thallium	1.51 ug/L	RL	
PB (prep blank)	Antimony	0.00048 mg/L	RL	MW-84F
	Iron	0.0420 mg/L	RL	
	Sodium	0.134 mg/L	RL	
	Thallium	0.00018 mg/L	RL	
ICB/CCB	Arsenic	0.200 ug/L	RL	MW-84F
	Iron	35.0 ug/L	RL	
	Sodium	63.4 ug/L	RL	
	Thallium	0.969 ug/L	RL	

Blank Actions for analytes detected below the reporting limit (RL).
If the sample result is < RL, report the result as nondetect (U) at the RL.
If the sample result is > RL or nondetect, no action is required.
Blank Actions for analytes detected above the reporting limit or RL.
If the sample result is < RL and <action level; report the result as nondetect (U) at the RL.
If the sample result is > RL and < action level; report the result as nondetect (U) at the reported value.
If the sample result is > action level or nondetect, no action is required.

Qualified sample results are listed in the table below.

Sample	Analyte	Reported Level	Validation Action
MW-84	Thallium	0.00017 mg/L	0.0020U mg/L

These results can be used for project objectives as nondetect (U) which may have a minor impact on the data usability.

Contamination was detected in the equipment blank sample Equipment Blank for the metals analyses. The following table summarizes the contamination greater than the reporting limit and validation actions taken.

Blank ID	Analyte	Level Detected	Action Level	Associated Samples
Equipment Blank	Aluminum	0.01 mg/L	RL	MW-84
	Barium	0.00222 mg/L	RL	
	Chromium	0.00020 mg/L	RL	
	Sodium	0.267 mg/L	RL	
	Thallium	0.00031 mg/L	RL	
Equipment Blank	Antimony	0.00076 mg/L	RL	MW-84F
	Calcium	0.0481 mg/L	RL	
	Manganese	0.00058 mg/L	RL	
	Sodium	0.0840 mg/L	RL	

Blank Actions for analytes detected above the reporting limit (RL).
If the sample result is < RL and < action level; report the result as nondetect (U) at the RL.
If the sample result is > RL and < action level; report the result as nondetect (U) at the reported value.
If the sample result is > action level or nondetect, no action is required.

Qualified sample results are listed in the table below.

Sample	Analyte	Reported Level	Validation Action
MW-84	Thallium	0.00017 mg/L	0.00200U mg/L

These results can be used for project objectives as nondetect (U) which may have a minor impact on the data usability.

ICP ICS Results

Analytes that did not meet criteria in the ICSA and ICSAB analyses are summarized in the following table.

ICS Identification	Analyte	%R (Limits)	Associated Samples	Validation Actions
ICSA (09:31)	Sodium	79 (80-120)	MW-84	J detects

The sodium result may be biased low due to low ICSA percent recovery. The result can be used for project objectives as an estimated value (J) which may have a minor impact on the data usability.

MS/MSD Results

MS/MSD analyses were performed on associated project samples MW-6 and MW-6F for metals analyses. All criteria were met.

Laboratory Duplicate Results

Laboratory duplicates were not associated with this sample set. Validation action was not required on this basis.

LCS Results

All criteria were met.

Serial Dilution Results

A serial dilution analysis was performed on associated project samples MW-6 and MW-6F for metals analyses. The following table lists the serial dilution percent differences (%D) outside of control limits in the metals analyses and the resulting validation actions.

Diluted Sample	Analyte	%D (Limits)	Associated Samples	Validation Action
MW-6	Calcium	27 (≤10)	MW-84	J detects
	Iron	24 (≤10)		J detects
	Magnesium	21 (≤10)		J detects
	Manganese	26 (≤10)		J detects

The calcium, iron, magnesium, and manganese results for the sample listed above were estimated due to serial dilution percent difference exceedances. The bias cannot be determined. The results can be used for project objectives as estimated values (J) which may have a minor impact on the data usability.

Internal Standards

All criteria were met.

Field Duplicate Results

A field duplicate pair was not associated with this sample set. Validation action was not required on this basis.

Detection Limits Results

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the metals analyses. These results were estimated (J) by the laboratory.

Dilutions were not required for metals analyses.

Sample Quantitation Results

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Form 1
METALS

Client	: P. W. Grosser	Lab Number	: L2212899
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212899-03	Date Collected	: 03/10/22 13:00
Client ID	: MW-84	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/23/22 17:46
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: SV
Lab File ID	: WG1618820.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 03/17/22

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7429-90-5	Aluminum, Total	4.27	0.0100	0.00327		
7440-36-0	Antimony, Total	0.00193	0.00400	0.00042	J	J
7440-38-2	Arsenic, Total	0.02830	0.00050	0.00016		
7440-39-3	Barium, Total	0.05561	0.00050	0.00017		
7440-41-7	Beryllium, Total	0.00045	0.00050	0.00010	J	J
7440-43-9	Cadmium, Total	0.00025	0.00020	0.00005		
7440-70-2	Calcium, Total	16.0	0.100	0.0394		J
7440-47-3	Chromium, Total	0.00913	0.00100	0.00017		
7440-48-4	Cobalt, Total	0.00683	0.00050	0.00016		
7440-50-8	Copper, Total	0.01643	0.00100	0.00038		
7439-89-6	Iron, Total	7.76	0.0500	0.0191		J
7439-92-1	Lead, Total	0.00977	0.00100	0.00034		
7439-95-4	Magnesium, Total	4.66	0.0700	0.0242		J
7439-96-5	Manganese, Total	0.3720	0.00100	0.00044		J
7440-02-0	Nickel, Total	0.02267	0.00200	0.00055		
7440-09-7	Potassium, Total	2.43	0.100	0.0309		
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U	U
7440-23-5	Sodium, Total	23.2	0.100	0.0293		J
7440-28-0	Thallium, Total	0.00017	0.00200	0.00014	J	0.00200 U
7440-62-2	Vanadium, Total	0.01251	0.00500	0.00157		
7440-66-6	Zinc, Total	0.07157	0.01000	0.00341		

KK 7/14/22

Form 1
METALS

Client	: P. W. Grosser	**Lab Number**	: L2212899
Project Name	: TOT2101	**Project Number**	: TOT2101
Lab ID	: L2212899-03	**Date Collected**	: 03/10/22 13:00
Client ID	: MW-84	**Date Received**	: 03/11/22
Sample Location	: 737 4TH AVE., BROOKLYN	**Date Analyzed**	: 03/28/22 11:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: SV
Lab File ID	: WG1620383.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/25/22

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7429-90-5	Aluminum, Dissolved	0.00636	0.0100	0.00327	J	J
7440-36-0	Antimony, Dissolved	0.00494	0.00400	0.00042		
7440-38-2	Arsenic, Dissolved	0.00630	0.00050	0.00016		
7440-39-3	Barium, Dissolved	0.02032	0.00050	0.00017		
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U	U
7440-70-2	Calcium, Dissolved	15.0	0.100	0.0394		
7440-47-3	Chromium, Dissolved	0.00019	0.00100	0.00017	J	J
7440-48-4	Cobalt, Dissolved	0.00266	0.00050	0.00016		
7440-50-8	Copper, Dissolved	0.00147	0.00100	0.00038		
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U	U
7439-95-4	Magnesium, Dissolved	2.71	0.0700	0.0242		
7439-96-5	Manganese, Dissolved	0.2202	0.00100	0.00044		
7440-02-0	Nickel, Dissolved	0.00931	0.00200	0.00055		
7440-09-7	Potassium, Dissolved	1.59	0.100	0.0309		
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U	U
7440-23-5	Sodium, Dissolved	30.1	0.100	0.0293		
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U	U
7440-66-6	Zinc, Dissolved	0.01002	0.01000	0.00341		

KK 7/14/22

Form 1
METALS

Client	: P. W. Grosser	**Lab Number**	: L2212899
Project Name	: TOT2101	**Project Number**	: TOT2101
Lab ID	: L2212899-03	**Date Collected**	: 03/10/22 13:00
Client ID	: MW-84	**Date Received**	: 03/11/22
Sample Location	: 737 4TH AVE., BROOKLYN	**Date Analyzed**	: 03/30/22 20:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: ZK
Lab File ID	: WG1621345.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/17/22

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

KK 7/14/22

Form 1
METALS

Client	: P. W. Grosser	Lab Number	: L2212899
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212899-03	Date Collected	: 03/10/22 13:00
Client ID	: MW-84	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE., BROOKLYN	Date Analyzed	: 03/30/22 22:27
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,7470A	Analyst	: ZK
Lab File ID	: WG1621345.pdf	Instrument ID	: NIC1
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 7470A	Date Digested	: 03/25/22

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U	U

KK 7/14/22

LDC #: 54136E4a
SDG #: L2212899
Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET
Category B

Date: 7/11/22
Page: 1 of 1
Reviewer: ATL
2nd Reviewer: [illegible]

METHOD: Metals (EPA SW-846 Method 6020B/7470A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	SW	
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	EB = Equipment Blank
VII.	Matrix Spike/Matrix Spike Duplicates	A	L2212899-02MS/MSD (MW-6MS/MSD)
VIII.	Duplicate sample analysis	N	L2212899-02FMS/MSD (MW-6FMS/MSD)
IX.	Serial Dilution	SW	L2212899-02 (MW-6)/L2212899-02F (MW-6F)
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	N	
XII.	Internal Standard (ICP-MS)	A	
XIII.	Target Analyte Quantitation	A	MDL < samples < RL : Jdet
XIV.	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

Samples appended with F were analyzed as dissolved.

	Client ID	Lab ID	Matrix	Date
1	MW-84	L2212899-03	Water	03/10/22
2	MW-84F	L2212899-03F	Water	03/10/22
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				

Notes:

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
I. Technical holding times				
Were all technical holding times met?	✓			
Were all water samples preserved to a pH of <2.	✓			
II. ICP-MS Tune				
Were mass resolutions within 0.1 amu for all isotopes in the tuning solution?	✓			
Were %RSDs of isoptoes in the tuning solution ≤5%?	✓			
III. Calibration				
Were all instruments calibrated daily?	✓			
Were the proper standards used?	✓			
Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits?	✓			
Were the low level standard checks within 70-130%?			✓	not reported.
Were all initial calibration correlation coefficients within limits as specifed by the method?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks?	✓			
Was there contamination in the initial and continuing calibration blanks?	✓			
V. Interference Check Sample				
Were the interference check samples performed daily?	✓			
Were the AB solution recoveries within 80-120%?	✓			
VI. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)	✓			
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?	✓			
VII. Laboratory Control Samples				
SDG?	✓			

Were the LCS recoveries and RPDs (if applicable) within QC limits?	✓			
METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
VIII. Internal Standards				
Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits?	✓			
If the recoveries were outside the limits, was a reanalysis performed?			✓	
IX. Serial Dilution				
Were all percent differences <10%?		✓		
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		✓		
X. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample dilutions?	✓			
Were all soil samples dry weight corrected?			✓	
XI. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	✓			
XII. Field Duplicates				
Were field duplicates identifed in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XIII. Field Blanks				
Were field blanks identified in this SDG?	✓			
Were target analytes detected in the field blanks?	✓			

LDC #: 54136E4a

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: ATL

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1,2	W	(Al) (Sb) (As) (Ba) (Be) (Cd) (Ca) (Cr) (Co) (Cu) (Fe) (Pb) (Mg) (Mn) (Hg) (Ni) (K) (Se) (Ag) (Na) (Tl) (V) (Zn) Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___

Comments: Mercury by CVAA if performed

LDC #: 54136E4a

VALIDATION FINDINGS WORKSHEET
ICP Interference Check Sample

Reviewer: ATL

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were ICP interference check samples performed as required?

Y (N) N/A Were the AB solution percent recoveries (%R) within the control limits of 80-120% ?

A

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	ICS Identification	Analyte	Finding	Associated Samples	Qualifications
	03/23/22	ICSA (09:31)	Na	79 (80-120)	1	J/UJ/A (detect)

Comments: _____

LDC #: 54136E4a

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: NA
Sample Concentration units, unless otherwise noted: mg/L Associated Samples: 1

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (mg/L)	Maximum ICB/CCB[a] (ug/L)	Action Level	1								
Tl		0.00026			0.00017/0.0020								
Hg		0.00016											
Fe			52.2	2.610									
Na			47.8										
Tl			1.51		see above								

Sample Concentration units, unless otherwise noted: mg/L Associated Samples: 2

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (mg/L)	Maximum ICB/CCB[a] (ug/L)	Action Level									
Sb		0.00048											
Fe		0.0420											
Na		0.134											
Tl		0.00018											
As			0.200										
Fe			35.0										
Na			63.4										
Tl			0.969										

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 54136E4a

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: ATL

METHOD: Trace Metals (EPA SW846 6010/6020/7000)

Blank units: mg/L **Associated sample units:** mg/L
Sampling date: 03/10/22 Soil factor applied _____
Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: 1

Analyte	Blank ID	Sample Identification									
	Equipment Blank	Action Limit	1								
Al	0.01	0.1									
Ba	0.00222	0.0222									
Cr	0.00020										
Na	0.267										
Tl	0.00031		0.00017/0.00200								

Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: 2

Analyte	Blank ID	Sample Identification										
	Equipment Blank Dis	Action Limit										
Sb	0.00076											
Ca	0.0481											
Mn	0.00058											
Na	0.0840											

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

LDC #: 54136E4a

VALIDATION FINDINGS WORKSHEET
ICP Serial Dilution

Reviewer: ATL

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A If analyte concentrations were > 50X the MDL (ICP) ,or >100X the MDL (ICP/MS), was a serial dilution analyzed?

Y (N) N/A Were ICP serial dilution percent differences (%D) ≤10%?

Y (N) N/A Is there evidence of negative interference? If yes, professional judgement will be used to qualify the data.

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Diluted Sample ID	Matrix	Analyte	%D (Limits)	Associated Samples	Qualifications
	MW-6 (L2212899-2)	W	Ca	27 (≤10%)	1	J/UJ/A (detect)
			Fe	24 (≤10%)	1	J/UJ/A (detect)
			Mg	21 (≤10%)	1	J/UJ/A (detect)
			Mn	26 (≤10%)	1	J/UJ/A (detect)

Comments:

LDC #: 54136E4a

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: ATV

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
	ICP (Initial calibration)						
ICV	ICP/MS (Initial calibration) 3/23 @ 09:08	Cd	50.604	50.000	101	101	Y
ICV	CVAA (Initial calibration)	Hg	0.002995 mg/L	0.00300 mg/L	100	100	Y
	ICP (Continuing calibration)						
CCV	ICP/MS (Continuing calibration) 3/28 @ 11:59	Mg	5780.620	6000.00	96	96	Y
CCV	CVAA (Continuing calibration) 3/30 @ 22:44	Hg	0.004857 mg/L	0.0050 mg/L	97	97	Y

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
3/23	Mass Axis	59.00	58.9483	± 0.1 AMU	NA	Y
3/28	%RSD	115.00	43273	≤ 5% RSD	0.70	Y

Comments:

LDC #: 54136E4a

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: ATL

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	mg/L Found / S / I (units)	mg/L True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSA	ICP interference check 3/23 @ 09:31	K	17337.153 mg/L	20000 mg/L	87	86	Y
LCS (DIS)	Laboratory control sample	Hg	0.000969	0.00100	97	97	Y
MW-6FMS	Matrix spike	Be	(SSR-SR) 0.04505	0.0500	90	90	Y
MW-6FMS/MSD	Duplicate	Be	0.04730	0.04505	5	5	Y
	Post digestion spike						
MW-6	ICP serial dilution	Mn	3.555	2.828	26	26	Y

Comments: _____

LDC #: 54136E4a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: ATV

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
(Y) N N/A Are all detection limits below the CRDL?

Detected analyte results for As were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation: #1

$28.303\ ppb \times \frac{1}{1000} = 0.028303$

#	Sample ID	Analyte	Reported Concentration (mg/L)	Calculated Concentration (mg/L)	Acceptable (Y/N)
	1	As	0.02830	0.02830	Y
	2	Na	30.1	30.082	Y
	1	Hg	ND	ND (0.000032)	Y
	2	Hg	ND	ND (0.005)	Y

Note: _____

Site:	737 4th Ave, Brooklyn, NY
Laboratory:	Alpha Analytical, Inc., Westborough, MA
Report No.:	L2212979
Reviewer:	Felomina Tanguilig, Josephine Go, and Kevin Kha/Laboratory Data Consultants for P.W. Grosser Consulting
Date:	June 29, 2022

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
MW-86	L2212979-02	VOC, SVOC, PAH, 1,4-Dioxane, Pesticide, PCB, PFAS

Associated QC Samples(s):
Field/Trip Blanks: TRIP BLANK, EQUIPMENT BLANK, FIELD BLANK
Field Duplicate pair: None Associated

The above-listed water sample was collected on March 11, 2022 and was analyzed for volatile organic compounds (VOCs) by SW-846 method 8260C, semivolatile organic compounds (SVOCs) by SW-846 method 8270D, polynuclear aromatic hydrocarbons (PAHs) by SW-846 method 8270D in selected ion monitoring (SIM) mode, 1,4-dioxane by SW-846 method 8270D in selected ion monitoring (SIM) mode, organochlorine pesticides by SW-846 method 8081B, polychlorinated biphenyls (PCBs) by SW-846 method 8082A, and perfluoroalkyl and polyfluoroalkyl substances (PFAS) by method 537 modified. The data validation was performed in accordance with the USEPA Region 2 *Standard Operating Procedure for Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-Method 8260B and 8260C,* SOP HW-24, Revision 4 (October 2014), the USEPA Region 2 *Standard Operating Procedure for Semivolatile Data Validation,* SOP HW-35A, Revision 0 (June 2015), the USEPA Region 2 *Standard Operating Procedure for Validating Pesticide Compounds, Organochlorine Pesticides by Gas Chromatography SW-846 Method 8081B,* SOP HW-44, Revision 1.1 (December 2010), the USEPA Region 2 *Standard Operating Procedure for Validating PCB Compounds, PCBs by Gas Chromatography SW-846 Method 8082A,* SOP HW-45, Revision 1 (October 2006), the USEPA *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review,* EPA 540-R-20-005 (November 2020), and the Guidelines for Sampling and Analysis of PFAS under NYSDEC's Part 375 Remedial Programs (January 2021), modified as necessary to accommodate the non-CLP methodologies used.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- GC/Electron Capture Detector (GC/ECD) Instrument Performance Checks
- Liquid Chromatography/Mass Spectrometry (LC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards/Labeled Compounds
- Field Duplicate Results
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to laboratory quality control outliers with the exception listed below.

The PAH nondetect results for pentachlorophenol in sample MW-86 were rejected (R) due to low LCS/LCSD recoveries. The results are not usable for project objectives, which may have a major impact on the data usability.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All technical holding time requirements were met.

GC/MS Tunes

VOC, SVOC, PAH, and 1,4-Dioxane

All criteria were met.

GC/ECD Instrument Performance Checks

Pesticide

All criteria were met.

LC/MS Tunes

PFAS

All criteria were met.

Initial and Continuing Calibrations

VOC

Initial calibration:

Compounds that did not meet criteria are summarized in the following tables.

Date	Standard ID	Compound	RRF	Associated Samples		Validation Action
01/28/22	ICAL-VOA122	1,4-Dioxane	0.00137 (≥0.005)	MW-86	+	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 1,4-dioxane result was estimated due to response factor exceedance. The bias cannot be determined. The result can be used for project objectives as nondetect with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following tables.

Date	Standard ID	Compound	RRF	Associated Samples		Validation Action
03/21/22	CCV	1,4-Dioxane	0.00139 (≥0.005)	MW-86	+	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 1,4-dioxane result was estimated due to response factor exceedance. The bias cannot be determined. The result can be used for project objectives as nondetect with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Date	Standard ID	Compound	CC %D	Associated Samples		Validation Action
03/21/22	CCV	2-Hexanone	27.3	MW-86	XX	J detects/UJ nondetects
		Hexachlorobutadiene	26.1		XX	J detects/UJ nondetects
		Naphthalene	20.7		XX	J detects/UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 2-hexanone, hexachlorobutadiene, and naphthalene results were estimated due to continuing calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

SVOC, PAH, 1,4-Dioxane, Pesticide, and PCB

All criteria were met.

PFAS

Initial calibration:

All criteria were met.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Standard ID	Compound	CC %D	Associated Samples		Validation Action
03/24/22	I57272	br-N-Methylperfluorooctanesulfonamidoacetic acid	69.7	MW-86	ISC	J detects/UJ nondetects
		br-N-Ethylperfluorooctanesulfonamidoacetic acid	64.1		ISC	J detects/UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
ISC = Instrument sensitivity check (ISC) percent difference (%D) > 50; estimate (J/UJ) positive and nondetect results.

The n-methylperfluorooctanesulfonamidoacetic acid and n-ethylperfluorooctanesulfonamidoacetic acid results were estimated due to instrument sensitivity check exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Blanks

VOC

Contamination was not detected in the method blanks.

No positive results were found in the trip blank sample TRIP BLANK and equipment blank sample EQUIPMENT BLANK for VOC analysis.

SVOC, PAH, 1,4-Dioxane, Pesticide, and PCB

Contamination was not detected in the method blanks.

No positive results were found in the equipment blank sample EQUIPMENT BLANK for SVOC, PAH, 1,4-dioxane, pesticide, and PCB analyses.

PFAS

Contamination was detected in the associated PFAS method blank samples. The presence of blank contamination indicates that false positives may exist for these compounds in the associated samples. Action Levels (ALs) were established at the reporting limit (RL) for contaminants. The following table summarizes the contamination detected.

Blank ID	Compound	Level Detected	Action Level	Associated Samples
WG1617912-1BLANK	Perfluorooctanesulfonic acid	1.00 ng/L	RL	MW-86
	PFOA/PFOS, Total	1.00 ng/L	RL	

Sample results were qualified as follows:

- If sample concentration was < the reporting limit (RL) and ≤ the Action Level, qualify the result as a nondetect (U) at the RL.
- If sample concentration was > the RL and ≤ the Action Level, qualify the result as not detected (U) at the reported concentration.
- If the sample concentration was > the RL and > the Action Level, qualification of the data was not required.

No samples were qualified since the associated sample results were greater than the action level.

Contamination was detected in the equipment blank sample EQUIPMENT BLANK and field blank sample FIELD BLANK for PFAS analysis. The presence of blank contamination indicates that false positives may exist for these compounds in the associated samples. Action Levels (ALs) were established at the reporting limit (RL) for contaminants. The following table summarizes the contamination detected.

Field Blank ID	Compound	Level Detected	Action Level	Associated Samples
EQUIPMENT BLANK	Perfluoropentanoic acid	0.384 ng/L	RL	MW-86
	Perfluorooctanesulfonic acid	0.488 ng/L	RL	
	PFOA/PFOS, Total	0.488 ng/L	RL	
FIELD BLANK	Perfluorooctanesulfonic acid	1.48 ng/L	RL	MW-86
	PFOA/PFOS, Total	1.48 ng/L	RL	

Sample results were qualified as follows:

- If sample concentration was < the reporting limit (RL) and ≤ the Action Level, qualify the result as a nondetect (U) at the RL.
- If sample concentration was > the RL and ≤ the Action Level, qualify the result as not detected (U) at the reported concentration.

No samples were qualified since the associated sample results were greater than the action level.

Surrogate Recoveries

VOC, SVOC, PAH, 1,4-Dioxane, Pesticide, and PCB

All criteria were met.

MS/MSD Results

VOC, 1,4-Dioxane, PCB, and PFAS

MS/MSD analyses were not associated with this sample set. Validation action was not required on this basis.

SVOC

MS/MSD analyses were performed on an associated project sample. Percent recoveries (%R) and relative percent differences (RPD) were not within QC limits. No data were qualified since there were no associated samples in this SDG.

PAH and Pesticide

MS/MSD analyses were performed on an associated project sample for PAH and pesticide analyses. All criteria were met.

LCS Results

VOC

The following table lists the LCS/LCSD percent recoveries (%R) outside of control limits in the VOC analysis and the resulting validation actions.

LCS ID	Compound	LCS %R (Limits)	LCS/D %R (Limits)	Affected Sample	Validation Action
WG1618293-3/4	Vinyl chloride	-	150 (55-140)	MW-86	None
	Chloroethane	-	190 (55-138)		

- Within control limits

Validation action was not required for vinyl chloride and chloroethane due to high LCS/LCSD recoveries as positive results only are affected and these compounds were not detected in the associated sample.

SVOC

The following table lists the LCS/LCSD percent recoveries (%R) outside of control limits in the SVOC analysis and the resulting validation actions.

LCS ID	Compound	LCS %R (Limits)	LCS/D %R (Limits)	Affected Sample	Validation Action
WG1616762-2/3 LCS/LCSD	Hexachlorocyclopentadiene	34 (40-140)	34 (40-140)	MW-86	UJ nondetects
	4-Chloroaniline	-	39 (40-140)		UJ nondetects
	4-Nitroaniline	49 (51-143)	49 (51-143)		UJ nondetects
	2,4,6-Trichlorophenol	-	22 (30-130)		UJ nondetects
	2,4-Dinitrophenol	-	0 (20-130)		UJ nondetects
	4,6-Dinitro-o-cresol	-	17 (20-164)		UJ nondetects
	Benzoic acid	-	0 (10-164)		UJ nondetects

- Within control limits

The results for the compounds listed above may be biased low due to low LCS/LCSD percent recoveries. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

The following table lists the LCS/LCSD relative percent differences (RPD) outside of control limits in the SVOC analysis and the resulting validation actions.

LCS ID	Compound	RPD (Limits)	Affected Sample	Validation Action
WG1616762-2/3 LCS/LCSD	2,4,6-Trichlorophenol	78 (≤30)	MW-86	None
	2-Chlorophenol	45 (≤30)		
	2,4-Dichlorophenol	48 (≤30)		
	2-Nitrophenol	50 (≤30)		
	4-Nitrophenol	71 (≤30)		
	4,6-Dinitro-o-cresol	74 (≤30)		
	Pentachlorophenol	83 (≤30)		
	Phenol	34 (≤30)		
	2,4,5-Trichlorophenol	56 (≤30)		
	Benzoic acid	200 (≤30)		

Validation action was not required for 2,4,6-trichlorophenol, 2-chlorophenol, 2,4-dichlorophenol, 2-nitrophenol, 4-nitrophenol, 4,6-dinitro-o-cresol, pentachlorophenol, phenol, 2,4,5-trichlorophenol, and benzoic acid due to LCS/LCSD relative percent difference exceedances as positive results only are affected and these compounds were not detected in the associated sample.

PAH

The following table lists the LCS/LCSD percent recoveries (%R) outside of control limits in the PAH analysis and the resulting validation actions.

LCS ID	Compound	LCS %R (Limits)	LCS/D %R (Limits)	Affected Sample	Validation Action
WG1616761-LCS/LCSD	Pentachlorophenol	3 (40-140)	4 (40-140)	MW-86	R nondetects

- Within control limits

The PAH nondetect results for pentachlorophenol in sample MW-86 were rejected (R) due to low LCS/LCSD recoveries. The results are not usable for project objectives, which may have a major impact on the data usability.

1,4-Dioxane, Pesticide, PCB, and PFAS

All criteria were met.

Internal Standards

VOC, SVOC, PAH, 1,4-Dioxane, Pesticide, and PCB

All criteria were met.

Labeled Compounds

PFAS

The following table lists the labeled compound percent recoveries (%R) outside of control limits in the PFAS analysis and the resulting validation actions.

Sample	Labeled Compound	%R (Limits)	Affected Compound	Validation Action
MW-86	M2-6:2 FTS	513 (50-150)	1H,1H,2H,2H-Perfluorooctanesulfonic acid	J detects/UJ nondetects
	M2-8:2 FTS	428 (50-150)	1H,1H,2H,2H-Perfluorodecane sulfonic acid	J detects/UJ nondetects
	D3-NMeFOSAA	156 (50-150)	N-Methylperfluorooctanesulfonamidoacetic acid	J detects/UJ nondetects

The 1h,1h,2h,2h- perfluorooctanesulfonic acid, 1h,1h,2h,2h-perfluorodecane sulfonic acid, and n-methylperfluorooctanesulfonamidoacetic acid results for the sample listed above was estimated due to labeled compound percent recovery exceedances. The bias cannot be determined. The results can be used for project objectives as estimated values (J) or nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Field Duplicate Results

A field duplicate pair was not associated with this sample set. Validation action was not required on this basis.

Quantitation Limits and Data Assessment

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the VOC, SVOC, PAH, and PFAS analyses. These results were qualified as estimated (J) by the laboratory.

No results were reported below the RL and above the MDL in the 1,4-dioxane, pesticide, and PCB analyses.

Dilutions were not required for VOC, SVOC, PAH, 1,4-dioxane, pesticide, PCB, and PFAS analyses.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2212979
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212979-02	Date Collected	: 03/11/22 13:05
Client ID	: MW-86	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/21/22 17:42
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MV
Lab File ID	: V22220321A26	Instrument ID	: VOA122
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	2.0	0.50	0.16	
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U

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Results Summary
Form 1
Volatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2212979
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212979-02	Date Collected	: 03/11/22 13:05
Client ID	: MW-86	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/21/22 17:42
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MV
Lab File ID	: V22220321A26	Instrument ID	: VOA122
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-00-3	Chloroethane	ND	2.5	0.70	U	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U	
79-01-6	Trichloroethene	ND	0.50	0.18	U	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U	
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U	
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U	
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U	
179601-23-1	p/m-Xylene	ND	2.5	0.70	U	
95-47-6	o-Xylene	0.74	2.5	0.70	J	J
1330-20-7	Xylenes, Total	0.74	2.5	0.70	J	J
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U	
74-95-3	Dibromomethane	ND	5.0	1.0	U	
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U	
107-13-1	Acrylonitrile	ND	5.0	1.5	U	
100-42-5	Styrene	ND	2.5	0.70	U	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U	
67-64-1	Acetone	5.1	5.0	1.5		
75-15-0	Carbon disulfide	ND	5.0	1.0	U	U
78-93-3	2-Butanone	ND	5.0	1.9	U	
108-05-4	Vinyl acetate	ND	5.0	1.0	U	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U	
591-78-6	2-Hexanone	ND	5.0	1.0	U	UJ
74-97-5	Bromochloromethane	ND	2.5	0.70	U	U

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Results Summary
Form 1
Volatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2212979
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212979-02	Date Collected	: 03/11/22 13:05
Client ID	: MW-86	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/21/22 17:42
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MV
Lab File ID	: V22220321A26	Instrument ID	: VOA122
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier	
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U	
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U	
108-86-1	Bromobenzene	ND	2.5	0.70	U	
104-51-8	n-Butylbenzene	2.2	2.5	0.70	J	J
135-98-8	sec-Butylbenzene	2.8	2.5	0.70		
98-06-6	tert-Butylbenzene	0.86	2.5	0.70	J	J
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U	
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U	UJ
98-82-8	Isopropylbenzene	8.1	2.5	0.70		
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U	U
91-20-3	Naphthalene	1.4	2.5	0.70	J	J
103-65-1	n-Propylbenzene	12	2.5	0.70		
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U	
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U	
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U	
123-91-1	1,4-Dioxane	ND	250	61.	U	UJ
105-05-5	p-Diethylbenzene	2.5	2.0	0.70		
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U	U
95-93-2	1,2,4,5-Tetramethylbenzene	21	2.0	0.54		
60-29-7	Ethyl ether	ND	2.5	0.70	U	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2212979
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212979-02	Date Collected	: 03/11/22 13:05
Client ID	: MW-86	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/21/22 17:42
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MV
Lab File ID	: V22220321A26	Instrument ID	: VOA122
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U	U

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Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2212979
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212979-02	Date Collected	: 03/11/22 13:05
Client ID	: MW-86	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/25/22 16:35
Sample Matrix	: WATER	Date Extracted	: 03/17/22
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 12979-02	Analyst	: JG
Sample Amount	: 275 ml	Instrument ID	: SV124
Extraction Method	: EPA 3510C	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	U	U
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.45	U	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.40	U	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.43	U	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U	
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U	
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U	
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U	UJ
78-59-1	Isophorone	ND	5.0	1.2	U	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U	
86-30-6	NDPA/DPA	ND	2.0	0.42	U	
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U	
117-81-7	Bis(2-ethylhexyl)phthalate	1.7	3.0	1.5	J	J
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U	U
84-74-2	Di-n-butylphthalate	1.2	5.0	0.39	J	J
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U	U

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Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2212979
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212979-02	Date Collected	: 03/11/22 13:05
Client ID	: MW-86	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/25/22 16:35
Sample Matrix	: WATER	Date Extracted	: 03/17/22
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 12979-02	Analyst	: JG
Sample Amount	: 275 ml	Instrument ID	: SV124
Extraction Method	: EPA 3510C	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U	U
92-52-4	Biphenyl	ND	2.0	0.46	U	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U	UJ
88-74-4	2-Nitroaniline	ND	5.0	0.50	U	U
99-09-2	3-Nitroaniline	ND	5.0	0.81	U	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U	UJ
132-64-9	Dibenzofuran	2.1	2.0	0.50		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U	U
98-86-2	Acetophenone	ND	5.0	0.53	U	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U	UJ
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U	
88-75-5	2-Nitrophenol	ND	10	0.85	U	
100-02-7	4-Nitrophenol	ND	10	0.67	U	
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U	UJ
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U	UJ
108-95-2	Phenol	ND	5.0	0.57	U	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U	
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U	

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Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: P. W. Grosser	Lab Number	: L2212979
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212979-02	Date Collected	: 03/11/22 13:05
Client ID	: MW-86	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/25/22 16:35
Sample Matrix	: WATER	Date Extracted	: 03/17/22
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 12979-02	Analyst	: JG
Sample Amount	: 275 ml	Instrument ID	: SV124
Extraction Method	: EPA 3510C	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
65-85-0	Benzoic Acid	ND	50	2.6	U	UJ
100-51-6	Benzyl Alcohol	ND	2.0	0.59	U	U
86-74-8	Carbazole	ND	2.0	0.49	U	U

KK 7/14/22

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: P. W. Grosser	Lab Number	: L2212979
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212979-02	Date Collected	: 03/11/22 13:05
Client ID	: MW-86	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/19/22 16:52
Sample Matrix	: WATER	Date Extracted	: 03/17/22
Analytical Method	: 1,8270D-SIM	Dilution Factor	: 1
Lab File ID	: 12979-02	Analyst	: DV
Sample Amount	: 275 ml	Instrument ID	: SV128
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
83-32-9	Acenaphthene	3.9	0.10	0.01		
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U	U
206-44-0	Fluoranthene	0.12	0.10	0.02		
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U	U
91-20-3	Naphthalene	0.21	0.10	0.05		
56-55-3	Benzo(a)anthracene	0.05	0.10	0.02	J	J
50-32-8	Benzo(a)pyrene	0.06	0.10	0.02	J	J
205-99-2	Benzo(b)fluoranthene	0.16	0.10	0.01		
207-08-9	Benzo(k)fluoranthene	0.05	0.10	0.01	J	J
218-01-9	Chrysene	0.09	0.10	0.01	J	J
208-96-8	Acenaphthylene	0.61	0.10	0.01		
120-12-7	Anthracene	0.25	0.10	0.01		
191-24-2	Benzo(ghi)perylene	0.14	0.10	0.01		
86-73-7	Fluorene	4.2	0.10	0.01		
85-01-8	Phenanthrene	2.4	0.10	0.02		
53-70-3	Dibenzo(a,h)anthracene	0.03	0.10	0.01	J	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.13	0.10	0.01		
129-00-0	Pyrene	0.28	0.10	0.02		
91-57-6	2-Methylnaphthalene	5.8	0.10	0.02		
87-86-5	Pentachlorophenol	ND	0.80	0.01	U	R
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U	U

KK 7/14/22

Results Summary
Form 1
1,4 Dioxane by 8270D-SIM

Client	: P. W. Grosser	Lab Number	: L2212979
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212979-02	Date Collected	: 03/11/22 13:05
Client ID	: MW-86	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/16/22 08:18
Sample Matrix	: WATER	Date Extracted	: 03/14/22
Analytical Method	: 1,8270D-SIM	Dilution Factor	: 1
Lab File ID	: F2203152254	Analyst	: DB
Sample Amount	: 270 ml	Instrument ID	: PAH22
Extraction Method	: EPA 3510C	GC Column	: RTX-5
Extract Volume	: 2500 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ng/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
123-91-1	1,4-Dioxane	ND	139	31.4	U	U

KK 7/14/22

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: P. W. Grosser	Lab Number	: L2212979
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212979-02	Date Collected	: 03/11/22 13:05
Client ID	: MW-86	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/18/22 17:48
Sample Matrix	: WATER	Date Extracted	: 03/17/22
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 18220318a-40	Analyst	: EJL
Sample Amount	: 140 ml	Instrument ID	: PEST18
Extraction Method	: EPA 3510C	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

KK 7/14/22

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: P. W. Grosser	Lab Number	: L2212979
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212979-02	Date Collected	: 03/11/22 13:05
Client ID	: MW-86	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/18/22 17:48
Sample Matrix	: WATER	Date Extracted	: 03/17/22
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 18220318a-40	Analyst	: EJL
Sample Amount	: 140 ml	Instrument ID	: PEST18
Extraction Method	: EPA 3510C	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
57-74-9	Chlordane	ND	0.143	0.033	U	U

KK 7/14/22

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: P. W. Grosser	Lab Number	: L2212979
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212979-02	Date Collected	: 03/11/22 13:05
Client ID	: MW-86	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/18/22 13:23
Sample Matrix	: WATER	Date Extracted	: 03/17/22
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P2220318a-26	Analyst	: KB
Sample Amount	: 140 ml	Instrument ID	: PEST2
Extraction Method	: EPA 3510C	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

U

KK 7/14/22

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: P. W. Grosser	Lab Number	: L2212979
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212979-02	Date Collected	: 03/11/22 13:05
Client ID	: MW-86	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/24/22 19:31
Sample Matrix	: WATER	Date Extracted	: 03/21/22
Analytical Method	: 134,LCMSMS-ID	Dilution Factor	: 1
Lab File ID	: I57276	Analyst	: MP
Sample Amount	: 248.3 g	Instrument ID	: LCMS02
Extraction Method	: ALPHA 23528	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
375-22-4	Perfluorobutanoic Acid (PFBA)	7.73	2.01	0.411		
2706-90-3	Perfluoropentanoic Acid (PFPeA)	20.2	2.01	0.399		
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	7.09	2.01	0.240		
307-24-4	Perfluorohexanoic Acid (PFHxA)	14.5	2.01	0.330		
375-85-9	Perfluoroheptanoic Acid (PFHpA)	12.0	2.01	0.227		
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	5.03	2.01	0.378		
335-67-1	Perfluorooctanoic Acid (PFOA)	38.0	2.01	0.238		
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	3.38	2.01	1.34		J
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	2.01	0.693	U	U
375-95-1	Perfluorononanoic Acid (PFNA)	0.685	2.01	0.314	J	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	12.2	2.01	0.507		
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	2.01	0.306	U	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	2.01	1.22	U	U J
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	2.01	0.652	U	U J
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	2.01	0.262	U	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	2.01	0.987	U	↓
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	2.01	0.584	U	
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	15.8	2.01	0.810		J

KK 7/14/22

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: P. W. Grosser	Lab Number	: L2212979
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212979-02	Date Collected	: 03/11/22 13:05
Client ID	: MW-86	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/24/22 19:31
Sample Matrix	: WATER	Date Extracted	: 03/21/22
Analytical Method	: 134,LCMSMS-ID	Dilution Factor	: 1
Lab File ID	: I57276	Analyst	: MP
Sample Amount	: 248.3 g	Instrument ID	: LCMS02
Extraction Method	: ALPHA 23528	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	2.01	0.374	U	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	2.01	0.329	U	↓
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	2.01	0.250	U	↓
NONE	PFOA/PFOS, Total	50.2	2.01	0.238		

KK 7/14/22

LDC #: 54136F1a

SDG #: L2212979

Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET

Category B

Date: 6/12/22

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC/MS Volatiles (EPA SW-846 Method 8260C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A /A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	SW/A	%RSD ≤20, r² ICV ≤30
IV.	Continuing calibration	SW	CCV ≤20
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB= TRIP BLANK EB= EQUIPMENT BLANK
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	SW	LCS ID
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Target analyte quantitation	A	Results <RL >MDL = Jdet
XIII.	Target analyte identification	A	MI
XIV.	System performance	A	
XV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-86	L2212979-02	Water	03/11/22
2				
3				
4				
5				
6				
7				
8				
9				

Notes:

	WG1618293-5	13/ank					

LDC #: 54136F1a

VALIDATION FINDINGS CHECKLIST

Reviewer: FT

Method: Volatiles (EPA SW 846 Method 8260C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%, 15/30% and relative response factors (RRF) within method criteria?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	.	✓		
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20% 30%?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 20% and relative response factors (RRF) within method criteria?		✓		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation findings worksheet.		✓		
VI. Field blanks				
Were field blanks were identified in this SDG?	✓			
Were target analytes detected in the field blanks?		✓	.	
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	

Validation Area	Yes	No	NA	Findings/Comments
IX. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XI. Internal standards				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XII. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?	✓			
Were target analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Target analyte identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did analyte spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO.1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methyl cyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

LDC #: 54136Fb

VALIDATION FINDINGS WORKSHEET
Initial Calibration

Page: 1 of 1
Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Did the laboratory perform a 5 point calibration prior to sample analysis?
Y N N/A Were percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?
Y N N/A Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation?_____
Y N N/A Did the initial calibration meet the acceptance criteria?
Y N N/A Were all %RSDs and RRFs within the validation criteria of ≤30/15, 20, 15 RSD% and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %RSD (Limit:_____)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	1/28/22	ICAL-10A122	HHHH		0.00137	All	J/UJ/A ND

LDC #: 54136Fb

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
Y (N) N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y (N) N/A Were all %D and RRFs within the validation criteria of ≤20 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤20.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	3/2/22 0725	ccv	HHHH		0.00139	All	J/UJ/A ND
			Z	27.3	↓	↓	↓ ↓
			LLL	26.1			↓
			MMM	20.7			Rej

CONCAL.wpd

LDC #: 54136F/a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a LCS required?

Y N N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

#	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	WG1618293-3/4	a	( )	150 (55-140)	( )	All	J dets/P ND
		D	( )	190 (55-138)	( )	↓	↓
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 54136F1a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260 C4

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the target analytes identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of target analyte
C_x = Concentration of target analyte
S = Standard deviation of the RRFs
X = Mean of the RRFs 4 NIU

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Reported RRF (30 std)	Recalculated RRF (3U std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL VOA 122	1/28/22	V	0.826	0.826	0.776	0.776	9.95	9.95
			CC	0.672	0.672	0.646	0.646	11.42	11.42
			BD	0.397	0.397	0.393	0.393	5.02	5.02
2									
3									
4									

Comments: _____

LDC #: 54136F1a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 (1))

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where:
ave. RRF = initial calibration average RRF
A_x = Area of target analyte
C_x = Concentration of target analyte
RRF = continuing calibration RRF
A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV	3/2/22 0725	Y	0.776	0.891	0.891	14.8	14.8
			CC	0.643	0.698	0.698	8.0	8.0
			BB	0.393	0.367	0.367	6.6	6.6
2								
3								
4								

LDC #: 54136F1a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 8)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the target analytes identified below using the following calculation:

% Recovery = 100 * SSC/SA

RPD = I LCSC - LCSDC I * 2/(LCSC + LCSDC)

Where: SSC = Spiked sample concentration
SA = Spike added
LCSC = Laboratory control sample concentration
LCSDC = Laboratory control sample duplicate concentration

LCS ID: WG161829B-3/4

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
1,1-Dichloroethene	10.0 U	10.0 U	11.795	12.073	120	117.95	120	120.73	0	2
Trichloroethene			10.941	11.556	110	104.41	120	115.56	9	5
Benzene			11.491	11.907	110	114.91	120	119.1	9	4
Toluene			10.805	11.252	110	108.1	110	112.5	0	4
Chlorobenzene	↓	↓	11.02 U	11.286	110	11.02 U	110	112.9	0	2

Comments: _____

LDC #: 54136F1a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 4

The concentration of the sample was calculated for the target analytes identified below using the following calculation:

$$\text{Concentration} = \frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the target analyte to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. #1, V

$$\text{Conc.} = \frac{27768 \ (10.0)}{180695 \ (0.776)}$$

$$= 1.98 \text{ ug/L}$$

#	Sample ID	Compound	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Qualification
	#1	V	2.0	1.98	-

LDC #: 54136F2a **VALIDATION COMPLETENESS WORKSHEET** Date: 6/12/22
SDG #: L2212979 Category B Page: 1 of 1
Laboratory: Alpha Analytical, Inc., Westborough, MA Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS Semivolatiles (EPA SW-846 Method 8270D)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/A	%D/%RSD ≤20, 1² ICV ≤30
IV.	Continuing calibration	A	CCV ≤20
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	EB = EQUIPMENT BLANK
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	SW	L2212899-02 MS/D (%R %RPD NC
IX.	Laboratory control samples	SW	LCS ID Assoc. samples
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Target analyte quantitation	A	Results < RL > MDL = detect
XIII.	Target analyte identification	A	MI
XIV.	System performance	A	
XV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-86	L2212979-02	Water	03/11/22
2				
3				
4				
5				
6				
7				
8				
9				

Notes:

	WG1616762-3						

LDC #: 54136F2a

VALIDATION FINDINGS CHECKLIST

Method: Semivolatiles (EPA SW 846 Method 8270D)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20% 15/30% and relative response factors (RRF) within method criteria?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20% 30%?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 20% and relative response factors (RRF) within method criteria?	✓			
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the blanks validation findings worksheet.		✓		
VI. Field blanks				
Were field blanks were identified in this SDG?	✓			
Were target analytes detected in the field blanks?		✓		
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any percent recoveries (%R) was less than 10%, was a reanalysis performed to confirm %R ?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	✓			

Validation Area	Yes	No	NA	Findings/Comments
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
IX. Laboratory control samples				
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XI. Internal standards				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XII. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Target analyte identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

A. Phenol	CC. Dimethylphthalate	EEE. Bis(2-ethylhexyl)phthalate	GGGG. C30-Hopane	I1. Methyl methanesulfonate
B. Bis (2-chloroethyl) ether	DD. Acenaphthylene	FFF. Di-n-octylphthalate	HHHH. 1-Methylphenanthrene	J1. Ethyl methanesulfonate
C. 2-Chlorophenol	EE. 2,6-Dinitrotoluene	GGG. Benzo(b)fluoranthene	IIII. 1,4-Dioxane	K1. o,o',o''-Triethylphosphorothioate
D. 1,3-Dichlorobenzene	FF. 3-Nitroaniline	HHH. Benzo(k)fluoranthene	JJJJ. Acetophenone	L1. n-Phenylene diamine
E. 1,4-Dichlorobenzene	GG. Acenaphthene	III. Benzo(a)pyrene	KKKK. Atrazine	M1. 1,4-Naphthoquinone
F. 1,2-Dichlorobenzene	HH. 2,4-Dinitrophenol	JJJ. Indeno(1,2,3-cd)pyrene	LLLL. Benzaldehyde	N1. N-Nitro-o-toluidine
G. 2-Methylphenol	II. 4-Nitrophenol	KKK. Dibenz(a,h)anthracene	MMMM. Caprolactam	O1. 1,3,5-Trinitrobenzene
H. 2,2'-Oxybis(1-chloropropane)	JJ. Dibenzofuran	LLL. Benzo(g,h,i)perylene	NNNN. 2,6-Dichlorophenol	P1. Pentachlorobenzene
I. 4-Methylphenol	KK. 2,4-Dinitrotoluene	MMM. Bis(2-Chloroisopropyl)ether	OOOO. 1,2-Diphenylhydrazine	Q1. 4-Aminobiphenyl
J. N-Nitroso-di-n-propylamine	LL. Diethylphthalate	NNN. Aniline	PPPP. 3-Methylphenol	R1. 2-Naphthylamine
K. Hexachloroethane	MM. 4-Chlorophenyl-phenyl ether	OOO. N-Nitrosodimethylamine	QQQQ. 3&4-Methylphenol	S1. Triphenylene
L. Nitrobenzene	NN. Fluorene	PPP. Benzoic Acid	RRRR. 4-Dimethyldibenzothiophene (4MDT)	T1. Octachlorostyrene
M. Isophorone	OO. 4-Nitroaniline	QQQ. Benzyl alcohol	SSSS. 2/3-Dimethyldibenzothiophene (4MDT)	U1. Famphur
N. 2-Nitrophenol	PP. 4,6-Dinitro-2-methylphenol	RRR. Pyridine	TTTT. 1-Methyldibenzothiophene (1MDT)	V1. 1,4-phenylenediamine
O. 2,4-Dimethylphenol	QQ. N-Nitrosodiphenylamine	SSS. Benzidine	UUUU.. 2,3,4,6-Tetrachlorophenol	W1. Methapyrilene
P. Bis(2-chloroethoxy)methane	RR. 4-Bromophenyl-phenylether	TTT. 1-Methylnaphthalene	VVVV. 1,2,4,5-Tetrachlorobenzene	X1. Pentachloroethane
Q. 2,4-Dichlorophenol	SS. Hexachlorobenzene	UUU.Benzo(b)thiophene	WWWW.. 2-Picoline	Y1. 3,3'-Dimethylbenzidine
R. 1,2,4-Trichlorobenzene	TT. Pentachlorophenol	VVV.Benzonaphthothiophene	XXXX. 3-Methylcholanthrene	Z1. o-Toluidine
S. Naphthalene	UU. Phenanthrene	WWW.Benzo(e)pyrene	YYYY. a,a-Dimethylphenethylamine	A2. 1-Naphthylamine
T. 4-Chloroaniline	VV. Anthracene	XXX. 2,6-Dimethylnaphthalene	ZZZZ. Hexachloropropene	B2. 4-Aminobiphenyl
U. Hexachlorobutadiene	WW. Carbazole	YYY. 2,3,5-Trimethylnaphthalene	A1. N-Nitrosodiethylamine	C2. 4-Nitroquinoline-1-oxide
V. 4-Chloro-3-methylphenol	XX. Di-n-butylphthalate	ZZZ. Perylene	B1. N-Nitrosodi-n-butylamine	D2. Hexachloropene
W. 2-Methylnaphthalene	YY. Fluoranthene	AAAA. Dibenzothiophene	C1. N-Nitrosomethylethylamine	E2. Bis (2-chloro-1-methylethyl) ether
X. Hexachlorocyclopentadiene	ZZ. Pyrene	BBBB. Benzo(a)fluoranthene	D1. N-Nitrosomorpholine	F2. Bifenthrin
Y. 2,4,6-Trichlorophenol	AAA. Butylbenzylphthalate	CCCC. Benzo(b)fluorene	E1. N-Nitrosopyrrolidine	G2. Cyfluthrin
Z. 2,4,5-Trichlorophenol	BBB. 3,3'-Dichlorobenzidine	DDDD. cis/trans-Decalin	F1. Phenacetin	H2. Cypermethrin
AA. 2-Chloronaphthalene	CCC. Benzo(a)anthracene	EEEE. 1,1'-Biphenyl	G1. 2-Acetylaminofluorene	I2. Permethrin (cis/trans)
BB. 2-Nitroaniline	DDD. Chrysene	FFFF. Retene	H1. Pronamide	J2. 5-Nitro-o-toluidine

LDC #: 91136 F2a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a LCS required?

Y N N/A Were the LCS/LCSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	WG616762-2/3 LCS/D	X	34 (40-140)	34 (40-140)	( )	All	J/UJ/P and ND
		T	( )	39 (40-140)	( )		
		~~OO~~	49 (51-143)	49 (51-143)	( )		
		Y	( )	22 (30-130)	( )		
		~~C~~	( )	45 (~~27-123~~)	( )		
		HH	( )	0 (20-130)	( )		
		4,6-Dinitro-o-cresol	( )	19 (20-164)	( )		
		PPP	( )	0 (10-164)	( )		
		Y	( )	( )	18 (30)		J all P
		C	( )	( )	45 ( )		
		Q	( )	( )	48 ( )		
		N	( )	( )	50 ( )		
		II	( )	( )	71 ( )		
		4,6-Dinitro-o-cresol	( )	( )	74 ( )		
		TT	( )	( )	83 ( )		
		A	( )	( )	34 ( )		
		Z	( )	( )	56 ( )		
		PPP	( )	( )	201 ( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 54136 F2a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 13)
The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the target analytes identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
$\%RSD = 100 * (S/X)$

A_x = Area of target analyte
C_x = Concentration of target analyte
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

1103

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Reported RRF (std)	Recalculated RRF (std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL SV124	3/22/22	A (1st IS)	0.857	0.857	0.842	0.842	6.46	6.46
			T (2nd IS)	0.123	0.123	0.120	0.120	6.01	6.01
			11 (3rd IS)	0.222	0.222	0.236	0.236	12.96	12.96
			XX (4th IS)	1.174	1.174	1.153	1.153	10.23	10.23
			EEE (5th IS)	see curve					
			(6th IS)						
2			(1st IS)						
			(2nd IS)						
			(3rd IS)						
			(4th IS)						
			(5th IS)						
			(6th IS)						
3			(1st IS)						
			(2nd IS)						
			(3rd IS)						
			(4th IS)						
			(5th IS)						
			(6th IS)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC#: 54136E2a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Method: 8270D

Calibration	System	Compound	Standard	(Y) Response	(X) Concentration
3/22/2022	GCMS SV124	EEE	1	0.03990	0.1
			2	0.24200	0.25
			3	0.53800	0.5
			4	0.84750	0.75
			5	1.47625	1.25
			6	3.05250	2.5
			7	4.68750	3.75

Regression Output		*Reported*
Constant	*-0.095474*	*-0.066997*
Std Err of Y Est		
R Squared	*0.999889*	*0.994414*
Degrees of Freedom		
X Coefficient(s)	*1.269447*	*0.860894*
Std Err of Coef.		
Correlation Coefficient	*0.999945*	
Coefficient of Determination (r^2)	*0.999889*	*0.994414*

LDC #: 54136 F2a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
A_x = Area of target analyte
C_x = Concentration of target analyte
RRF = continuing calibration RRF
A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV SV124	0839	A (1st IS)	0.842	0.833	0.833	1.1	1.1
			T (2nd IS)	0.120	0.125	0.125	4.2	4.2
			II (3rd IS)	0.236	0.262	0.262	11.0	11.0
			XX (4th IS)	1.153	1.279	1.279	10.9	10.9
			EEE (5th IS)	5.60	5.217	5.217	4.3	4.3
			(6th IS)					
2			(1st IS)					
			(2nd IS)					
			(3rd IS)					
			(4th IS)					
			(5th IS)					
			(6th IS)					
3			(1st IS)					
			(2nd IS)					
			(3rd IS)					
			(4th IS)					
			(5th IS)					
			(6th IS)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136F29

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	2.5	1.436	57	57	0
2-Fluorobiphenyl	↓	1.394	56	56	
Terphenyl-d14	↓	1.461	58	58	
Phenol-d5	5.0	2.20	44	44	
2-Fluorophenol	↓	2.555	51	51	
2,4,6-Tribromophenol	↓	3.225	65	65	

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					

LDC #: 54136F2a

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270)D

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

$$SSC = \frac{(Ax)(C_{IS})(Fv)(Df)}{(A_{IS})(RRF)(Vs \text{ or } Ws)(\%S/100)}$$

%Recovery = (SSC/SA)*100

RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where: A_x= Area of the target analyte; A_{IS}= Area for the specific internal standard; C_{IS} = Concentration of internal standard; Fv =Final volume of extract; Df= Dilution factor; RRF= Average relative response factor of the target analyte; Ws= Initial weight of the sample; %S= Percent Solid; SSC = Spiked sample concentration; LCS = Laboratory control sample; LCSD = Laboratory control sample duplicate; Vs= Initial volume of the sample

LCS/LCSD samples: WG1616762-2/3

Compound	Spike Added (ug/L)		Spike Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol	5.0	5.0	2.058	1.474	~~60~~ 41	41	~~57~~ 29	29	~~6~~ 34	33
N-Nitroso-di-n-propylamine			2.901	2.847	58	57	57	57	2	2
4-Chloro-3-methylphenol			3.015	2.662	60	60	53	53	12	12
Acenaphthene			3.008	2.830	60	60	57	57	5	6
Pentachlorophenol			1.201	0.496	24	24	10	10	83	83
Pyrene			3.183	2.986	64	64	60	60	6	6

LDC #: 54136F2a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

$$\text{Concentration} = \frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$$

A_x	=	Area of the characteristic ion (EICP) for the target analyte to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
V_o	=	Volume or weight of sample extract in milliliters (ml) or grams (g).
V_i	=	Volume of extract injected in microliters (ul)
V_t	=	Volume of the concentrated extract in microliters (ul)
Df	=	Dilution Factor.
%S	=	Percent solids, applicable to soil and solid matrices only.
2.0	=	Factor of 2 to account for GPC cleanup

1/275

Example:

Sample I.D. #1, XX

Conc. = $\frac{(34686)(4)(1)(1000)}{(36142)(1.153)(275)}$

= 1.2 ug/L

#	Sample ID	Target Analyte	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Qualification
	#1	XX	1.2	1.21	

LDC #: 54136F2b

VALIDATION COMPLETENESS WORKSHEET

SDG #: L2212979

Category B

Laboratory: Alpha Analytical, Inc., Westborough, MA

Date: 6/12/22

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW846 Method 8270D-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A /A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A A	
IV.	Continuing calibration	A	
V.	Laboratory Blanks	SW	
VI.	Field blanks	ND	EB = EQUIPMENT Blank
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	L2212899-02 MS MD
IX.	Laboratory control samples	SW	LCS ID
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Target analyte quantitation	A	Results < RL > MDL = J or UJ
XIII.	Target analyte identification	A	MI
XIV.	System performance	A	
XV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-86	L2212979-02	Water	03/11/22
2				
3				
4				
5				
6				
7				
8				
9				

Notes:

	WG1616761-1 Blank						

LDC #: 94136F2b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT

Method: Semivolatiles (EPA SW 846 Method 8270 D)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20% 15/30% and relative response factors (RRF) within method criteria?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20% 30%?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 20% and relative response factors (RRF) within method criteria?	✓			
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the blanks validation findings worksheet.	✓			
VI. Field blanks				
Were field blanks were identified in this SDG?	✓			
Were target analytes detected in the field blanks?		✓		
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any percent recoveries (%R) was less than 10%, was a reanalysis performed to confirm %R ?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	✓			

Validation Area	Yes	No	NA	Findings/Comments
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
IX. Laboratory control samples				
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XI. Internal standards				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XII. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Target analyte identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

A. Phenol	CC. Dimethylphthalate	EEE. Bis(2-ethylhexyl)phthalate	GGGG. C30-Hopane	I1. Methyl methanesulfonate
B. Bis (2-chloroethyl) ether	DD. Acenaphthylene	FFF. Di-n-octylphthalate	HHHH. 1-Methylphenanthrene	J1. Ethyl methanesulfonate
C. 2-Chlorophenol	EE. 2,6-Dinitrotoluene	GGG. Benzo(b)fluoranthene	IIII. 1,4-Dioxane	K1. o,o',o''-Triethylphosphorothioate
D. 1,3-Dichlorobenzene	FF. 3-Nitroaniline	HHH. Benzo(k)fluoranthene	JJJJ. Acetophenone	L1. n-Phenylene diamine
E. 1,4-Dichlorobenzene	GG. Acenaphthene	III. Benzo(a)pyrene	KKKK. Atrazine	M1. 1,4-Naphthoquinone
F. 1,2-Dichlorobenzene	HH. 2,4-Dinitrophenol	JJJ. Indeno(1,2,3-cd)pyrene	LLLL. Benzaldehyde	N1. N-Nitro-o-toluidine
G. 2-Methylphenol	II. 4-Nitrophenol	KKK. Dibenz(a,h)anthracene	MMMM. Caprolactam	O1. 1,3,5-Trinitrobenzene
H. 2,2'-Oxybis(1-chloropropane)	JJ. Dibenzofuran	LLL. Benzo(g,h,i)perylene	NNNN. 2,6-Dichlorophenol	P1. Pentachlorobenzene
I. 4-Methylphenol	KK. 2,4-Dinitrotoluene	MMM. Bis(2-Chloroisopropyl)ether	OOOO. 1,2-Diphenylhydrazine	Q1. 4-Aminobiphenyl
J. N-Nitroso-di-n-propylamine	LL. Diethylphthalate	NNN. Aniline	PPPP. 3-Methylphenol	R1. 2-Naphthylamine
K. Hexachloroethane	MM. 4-Chlorophenyl-phenyl ether	OOO. N-Nitrosodimethylamine	QQQQ. 3&4-Methylphenol	S1. Triphenylene
L. Nitrobenzene	NN. Fluorene	PPP. Benzoic Acid	RRRR. 4-Dimethyldibenzothiophene (4MDT)	T1. Octachlorostyrene
M. Isophorone	OO. 4-Nitroaniline	QQQ. Benzyl alcohol	SSSS. 2/3-Dimethyldibenzothiophene (4MDT)	U1. Famphur
N. 2-Nitrophenol	PP. 4,6-Dinitro-2-methylphenol	RRR. Pyridine	TTTT. 1-Methyldibenzothiophene (1MDT)	V1. 1,4-phenylenediamine
O. 2,4-Dimethylphenol	QQ. N-Nitrosodiphenylamine	SSS. Benzidine	UUUU.. 2,3,4,6-Tetrachlorophenol	W1. Methapyrilene
P. Bis(2-chloroethoxy)methane	RR. 4-Bromophenyl-phenylether	TTT. 1-Methylnaphthalene	VVVV. 1,2,4,5-Tetrachlorobenzene	X1. Pentachloroethane
Q. 2,4-Dichlorophenol	SS. Hexachlorobenzene	UUU.Benzo(b)thiophene	WWWW.. 2-Picoline	Y1. 3,3'-Dimethylbenzidine
R. 1,2,4-Trichlorobenzene	TT. Pentachlorophenol	VVV.Benzonaphthothiophene	XXXX. 3-Methylcholanthrene	Z1. o-Toluidine
S. Naphthalene	UU. Phenanthrene	WWW.Benzo(e)pyrene	YYYY. a,a-Dimethylphenethylamine	A2. 1-Naphthylamine
T. 4-Chloroaniline	VV. Anthracene	XXX. 2,6-Dimethylnaphthalene	ZZZZ. Hexachloropropene	B2. 4-Aminobiphenyl
U. Hexachlorobutadiene	WW. Carbazole	YYY. 2,3,5-Trimethylnaphthalene	A1. N-Nitrosodiethylamine	C2. 4-Nitroquinoline-1-oxide
V. 4-Chloro-3-methylphenol	XX. Di-n-butylphthalate	ZZZ. Perylene	B1. N-Nitrosodi-n-butylamine	D2. Hexachloropene
W. 2-Methylnaphthalene	YY. Fluoranthene	AAAA. Dibenzothiophene	C1. N-Nitrosomethylethylamine	E2. Bis (2-chloro-1-methylethyl) ether
X. Hexachlorocyclopentadiene	ZZ. Pyrene	BBBB. Benzo(a)fluoranthene	D1. N-Nitrosomorpholine	F2. Bifenthrin
Y. 2,4,6-Trichlorophenol	AAA. Butylbenzylphthalate	CCCC. Benzo(b)fluorene	E1. N-Nitrosopyrrolidine	G2. Cyfluthrin
Z. 2,4,5-Trichlorophenol	BBB. 3,3'-Dichlorobenzidine	DDDD. cis/trans-Decalin	F1. Phenacetin	H2. Cypermethrin
AA. 2-Chloronaphthalene	CCC. Benzo(a)anthracene	EEEE. 1,1'-Biphenyl	G1. 2-Acetylaminofluorene	I2. Permethrin (cis/trans)
BB. 2-Nitroaniline	DDD. Chrysene	FFFF. Retene	H1. Pronamide	J2. 5-Nitro-o-toluidine

LDC #: 54136F2b

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a LCS required?

Y N N/A Were the LCS/LCSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	WG1616761-	TT	3 (40-140)	4 (40-140	( )	All	J/R/P ND
	2/3		( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 54136F2b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GCMS PAH 8270D SIM

The calibration factors (RRFF), average RRFF, and relative standard deviation (%RSD) were recalculated for compounds identified below using the following calculations:

RRF = (Ax)(Cis)/(Ais)(Cx)
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

Where:

Ax = Area of compound
Cx = Concentration of compound
S = Standard deviation of the RRFs
X = Mean of the RRFs
Ais = Area of associated internal standard
Cis = Concentration of internal Standard

#	Standard ID	Calibration Date	Compound	Reported (RRF 250ng/ml std)	Recalculated (RRF 250ng/ml std)	Reported AverageRRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
	ICAL	2/9/2022	S	1.055	1.055	1.054	1.054	3.24	3.24
	SV128		GG	1.364	1.364	1.334	1.334	1.60	1.60
			UU	1.099	1.099	1.106	1.106	4.39	4.39
			DDD	1.346	1.346	1.323	1.323	5.21	5.21
			JJJ	1.105	1.105	1.138	1.138	6.87	6.87

LDC #: 54136F2b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)
The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
A_x = Area of target analyte
C_x = Concentration of target analyte
RRF = continuing calibration RRF
A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ccv	3/18/22 1023	S (1st IS)	1.054	1.007	1.007	4.5	4.5
			GG (2nd IS)	1.334	1.325	1.325	0.7	0.7
			UU (3rd IS)	1.106	1.048	1.048	5.2	5.2
			PPD (4th IS)	1.323	1.247	1.247	5.7	5.7
			JJJ (5th IS)	1.138	1.17	1.17	2.8	2.8
			(6th IS)					
2	ccv	3/19/22 1251	(1st IS)		0.99	0.99	6.1	6.1
			(2nd IS)		1.33	1.33	0.3	0.3
			(3rd IS)		1.043	1.043	5.7	5.7
			(4th IS)		1.215	1.215	8.2	8.2
			(5th IS)		1.2	1.2	5.4	5.4
			(6th IS)					
3			(1st IS)					
			(2nd IS)					
			(3rd IS)					
			(4th IS)					
			(5th IS)					
			(6th IS)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136F2b

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270 D)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	2500.0	1790.399	~~75~~ 72	72	0
2-Fluorobiphenyl	↓	1591.700	64	64	
Terphenyl-d14	↓	1506.260	60	60	
Phenol-d5	3000.0	2213.142	44	44	↓
2-Fluorophenol	↓	2309.878	46	46	
2,4,6-Tribromophenol	↓	3509.391	70	~~70~~	↓

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					

LDC #: 64136F26

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

$$SSC = \frac{(Ax)(Cis)(Fv)(Df)}{(A_{is})(RRF)(Vs \text{ or } Ws)(\%S/100)}$$

%Recovery = (SSC/SA)*100

RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where: A_x= Area of the target analyte
A_{IS}= Area for the specific internal standard
C_{IS} = Concentration of internal standard
Fv =Final volume of extract
Df= Dilution factor
RRF= Average relative response factor of the target analyte
Ws= Initial weight of the sample
%S= Percent Solid
SSC = Spiked sample concentration
LCS = Laboratory control sample
LCSD = Laboratory control sample duplicate
Vs= Initial volume of the sample

LCS/LCSD samples: WG161676 1 - 2/3

Compound	Spike Added ( )		Spike Concentration ( )		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol										
N-Nitroso-di-n-propylamine										
4-Chloro-3-methylphenol										
Acenaphthene	100	100	713.024	653.552	71	71	65	65	9	9
Pentachlorophenol										
Pyrene	100	100	747.449	692.098	75	75	69	69	8	8

LDC #: 54136F26

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

$$\text{Concentration} = \frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$$

A_x	=	Area of the characteristic ion (EICP) for the target analyte to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
V_o	=	Volume or weight of sample extract in milliliters (ml) or grams (g).
V_i	=	Volume of extract injected in microliters (ul)
V_t	=	Volume of the concentrated extract in microliters (ul)
Df	=	Dilution Factor.
%S	=	Percent solids, applicable to soil and solid matrices only.
2.0	=	Factor of 2 to account for GPC cleanup

Example:

Sample I.D. #1, JJJ

$$\text{Conc.} = \frac{475\ (4000)\ (1)}{46938\ (1.138)\ (275)}$$

$$= 0.1293\ ug/L$$

#	Sample ID	Target Analyte	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Qualification
	#1	JJJ	0.13	0.1293	

LDC #: 54136F2c

SDG #: L2212979

Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET

Category B

Date: 6/12/12

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: KW

METHOD: GC/MS 1,4-Dioxane (EPA SW846 Method 8270D-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/A	%RSD ≤20 ICV ≤30
IV.	Continuing calibration	A	CCV ≤20
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	EB= EQUIPMENT BLANK
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	N	es
IX.	Laboratory control samples	A	LCS ID
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Target analyte quantitation	A	NJ Results < RL > MDL
XIII.	Target analyte identification	A	
XIV.	System performance	A	
XV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-86	L2212979-02	Water	03/11/22
2				
3				
4				
5				
6				
7				
8				
9				

Notes:

LDC #: 54136 F2e

VALIDATION FINDINGS CHECKLIST

Reviewer: FT

Method: Semivolatiles (EPA SW 846 Method 8270 D) SIM

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20% 15/30% and relative response factors (RRF) within method criteria?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20% 30%?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 20% and relative response factors (RRF) within method criteria?	✓			
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the blanks validation findings worksheet.		✓		
VI. Field blanks				
Were field blanks were identified in this SDG?	✓			
Were target analytes detected in the field blanks?		✓		
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any percent recoveries (%R) was less than 10%, was a reanalysis performed to confirm %R ?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	

Validation Area	Yes	No	NA	Findings/Comments
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
IX. Laboratory control samples				
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		—		
Were target analytes detected in the field duplicates?			✓	
XI. Internal standards				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XII. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Target analyte identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

A. Phenol	CC. Dimethylphthalate	EEE. Bis(2-ethylhexyl)phthalate	GGGG. C30-Hopane	I1. Methyl methanesulfonate
B. Bis (2-chloroethyl) ether	DD. Acenaphthylene	FFF. Di-n-octylphthalate	HHHH. 1-Methylphenanthrene	J1. Ethyl methanesulfonate
C. 2-Chlorophenol	EE. 2,6-Dinitrotoluene	GGG. Benzo(b)fluoranthene	IIII. 1,4-Dioxane	K1. o,o',o''-Triethylphosphorothioate
D. 1,3-Dichlorobenzene	FF. 3-Nitroaniline	HHH. Benzo(k)fluoranthene	JJJJ. Acetophenone	L1. n-Phenylene diamine
E. 1,4-Dichlorobenzene	GG. Acenaphthene	III. Benzo(a)pyrene	KKKK. Atrazine	M1. 1,4-Naphthoquinone
F. 1,2-Dichlorobenzene	HH. 2,4-Dinitrophenol	JJJ. Indeno(1,2,3-cd)pyrene	LLLL. Benzaldehyde	N1. N-Nitro-o-toluidine
G. 2-Methylphenol	II. 4-Nitrophenol	KKK. Dibenz(a,h)anthracene	MMMM. Caprolactam	O1. 1,3,5-Trinitrobenzene
H. 2,2'-Oxybis(1-chloropropane)	JJ. Dibenzofuran	LLL. Benzo(g,h,i)perylene	NNNN. 2,6-Dichlorophenol	P1. Pentachlorobenzene
I. 4-Methylphenol	KK. 2,4-Dinitrotoluene	MMM. Bis(2-Chloroisopropyl)ether	OOOO. 1,2-Diphenylhydrazine	Q1. 4-Aminobiphenyl
J. N-Nitroso-di-n-propylamine	LL. Diethylphthalate	NNN. Aniline	PPPP. 3-Methylphenol	R1. 2-Naphthylamine
K. Hexachloroethane	MM. 4-Chlorophenyl-phenyl ether	OOO. N-Nitrosodimethylamine	QQQQ. 3&4-Methylphenol	S1. Triphenylene
L. Nitrobenzene	NN. Fluorene	PPP. Benzoic Acid	RRRR. 4-Dimethyldibenzothiophene (4MDT)	T1. Octachlorostyrene
M. Isophorone	OO. 4-Nitroaniline	QQQ. Benzyl alcohol	SSSS. 2/3-Dimethyldibenzothiophene (4MDT)	U1. Famphur
N. 2-Nitrophenol	PP. 4,6-Dinitro-2-methylphenol	RRR. Pyridine	TTTT. 1-Methyldibenzothiophene (1MDT)	V1. 1,4-phenylenediamine
O. 2,4-Dimethylphenol	QQ. N-Nitrosodiphenylamine	SSS. Benzidine	UUUU.. 2,3,4,6-Tetrachlorophenol	W1. Methapyrilene
P. Bis(2-chloroethoxy)methane	RR. 4-Bromophenyl-phenylether	TTT. 1-Methylnaphthalene	VVVV. 1,2,4,5-Tetrachlorobenzene	X1. Pentachloroethane
Q. 2,4-Dichlorophenol	SS. Hexachlorobenzene	UUU.Benzo(b)thiophene	WWWW.. 2-Picoline	Y1. 3,3'-Dimethylbenzidine
R. 1,2,4-Trichlorobenzene	TT. Pentachlorophenol	VVV.Benzonaphthothiophene	XXXX. 3-Methylcholanthrene	Z1. o-Toluidine
S. Naphthalene	UU. Phenanthrene	WWW.Benzo(e)pyrene	YYYY. a,a-Dimethylphenethylamine	A2. 1-Naphthylamine
T. 4-Chloroaniline	VV. Anthracene	XXX. 2,6-Dimethylnaphthalene	ZZZZ. Hexachloropropene	B2. 4-Aminobiphenyl
U. Hexachlorobutadiene	WW. Carbazole	YYY. 2,3,5-Trimethylnaphthalene	A1. N-Nitrosodiethylamine	C2. 4-Nitroquinoline-1-oxide
V. 4-Chloro-3-methylphenol	XX. Di-n-butylphthalate	ZZZ. Perylene	B1. N-Nitrosodi-n-butylamine	D2. Hexachloropene
W. 2-Methylnaphthalene	YY. Fluoranthene	AAAA. Dibenzothiophene	C1. N-Nitrosomethylethylamine	E2. Bis (2-chloro-1-methylethyl) ether
X. Hexachlorocyclopentadiene	ZZ. Pyrene	BBBB. Benzo(a)fluoranthene	D1. N-Nitrosomorpholine	F2. Bifenthrin
Y. 2,4,6-Trichlorophenol	AAA. Butylbenzylphthalate	CCCC. Benzo(b)fluorene	E1. N-Nitrosopyrrolidine	G2. Cyfluthrin
Z. 2,4,5-Trichlorophenol	BBB. 3,3'-Dichlorobenzidine	DDDD. cis/trans-Decalin	F1. Phenacetin	H2. Cypermethrin
AA. 2-Chloronaphthalene	CCC. Benzo(a)anthracene	EEEE. 1,1'-Biphenyl	G1. 2-Acetylaminofluorene	I2. Permethrin (cis/trans)
BB. 2-Nitroaniline	DDD. Chrysene	FFFF. Retene	H1. Pronamide	J2. 5-Nitro-o-toluidine

LDC #: 54136F2C

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)
The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the target analytes identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of target analyte
C_x = Concentration of target analyte
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

#	Standard ID	Calibration Date	Target Analyte Internal Standard)	Reported RRF (500 std)	Recalculated RRF (500 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	2/22/22	1,4-Dioxane (1st IS)	1.198	1.198	1.178	1.178	2.47	2.47
			(2nd IS)						
			(3rd IS)						
			(4th IS)						
			(5th IS)						
			(6th IS)						
2			(1st IS)						
			(2nd IS)						
			(3rd IS)						
			(4th IS)						
			(5th IS)						
			(6th IS)						
3			(1st IS)						
			(2nd IS)						
			(3rd IS)						
			(4th IS)						
			(5th IS)						
			(6th IS)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136F2C

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)
The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
A_x = Area of target analyte
C_x = Concentration of target analyte
RRF = continuing calibration RRF
A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ccv	3/16/12 0002	1,4-Dioxane (1st IS)	1.178	1.323	1.323	12.3	12.3
			(2nd IS)					
			(3rd IS)					
			(4th IS)					
			(5th IS)					
			(6th IS)					
2			(1st IS)					
			(2nd IS)					
			(3rd IS)					
			(4th IS)					
			(5th IS)					
			(6th IS)					
3			(1st IS)					
			(2nd IS)					
			(3rd IS)					
			(4th IS)					
			(5th IS)					
			(6th IS)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 34136F2C

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270 D)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
~~Nitrobenzene-d5~~ 1,4-Dioxane	50U	23.097	46	46	0
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
~~2,4,6-Tribromophenol~~					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					

LDC #: 54136F2c

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

$$SSC = \frac{(Ax)(Cis)(Fv)(Df)}{(A_{is})(RRF)(Vs \text{ or } Ws)(\%S/100)}$$

%Recovery = (SSC/SA)*100

RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where: A_x= Area of the target analyte
A_{is}= Area for the specific internal standard
C_{is} = Concentration of internal standard
Fv =Final volume of extract
Df= Dilution factor
RRF= Average relative response factor of the target analyte
Ws= Initial weight of the sample
%S= Percent Solid
SSC = Spiked sample concentration
LCS = Laboratory control sample
LCSD = Laboratory control sample duplicate
Vs= Initial volume of the sample

LCS/LCSD samples: WG161535-2/3

Compound	Spike Added (ug/kg)		Spike Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol										
N-Nitroso-di-n-propylamine										
4-Chloro-3-methylphenol										
Acenaphthene										
Pentachlorophenol										
Pyrene										
1,4-Dioxane	500	500	619.503	625.6	124	124	125	125	1	1

LDC #: 54136F2e

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

$$\text{Concentration} = \frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$$

A_x	=	Area of the characteristic ion (EICP) for the target analyte to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
V_o	=	Volume or weight of sample extract in milliliters (ml) or grams (g).
V_i	=	Volume of extract injected in microliters (ul)
V_t	=	Volume of the concentrated extract in microliters (ul)
Df	=	Dilution Factor.
%S	=	Percent solids, applicable to soil and solid matrices only.
2.0	=	Factor of 2 to account for GPC cleanup

Example:

Sample I.D. LCS (WG16154535-2) 1,4-Dioxane

Conc. = $\frac{27301\ (500)\ (25)\ (1000)}{(18707)(1.178)\ (250)}$ =

#	Sample ID	Target Analyte	Reported Concentration ( )	Calculated Concentration ( )	Qualification
	LCS	1,4-Dioxane	619.503 ng/ml		
			6200 ng/L	620. 6194 ng/L	

LDC #: 54136F3a
SDG #: L2212979
Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET
Category B

Date: 6/12/12
Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Organochlorine Pesticides (EPA SW-846 Method 8081B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	GC Instrument Performance Check	A	
III.	Initial calibration/ICV	A/A	%RSD/ICV ≤20
IV.	Continuing calibration	A	CCV ≤20
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	EB - EQUIPMENT BLANK
VII.	Surrogate spikes 1/19	A/A	
VIII.	Matrix spike/Matrix spike duplicates	A	L2212899-02 MS ID
IX.	Laboratory control samples	A	LCS ID
X.	Field duplicates	N	
XI.	Target analyte quantitation	A	ND Result < RL > MDL
XII.	Target analyte identification	A	
XIII.	System Performance	A	
XIV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-86	L2212979-02	Water	03/11/22
2				
3				
4				
5				
6				
7				
8				
9				
10				

Notes:

	WG1616582 - Blank						

LDC #: 54136G3a

VALIDATION FINDINGS CHECKLIST

Reviewer: FT

Method: Pesticides (EPA SW 846 Method 8081 B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/ECD Instrument performance check				
Was the instrument performance found to be acceptable?	✓			
Were Evaluation mix standards analyzed prior to the initial calibration and at beginning of each 12-hour shift?	✓			
Were endrin and 4,4'-DDT breakdowns ≤ 15% for individual breakdown in the Evaluation mix standards?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
Were the RT windows properly established?	✓			
IIIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
VI. Field blanks				
Were field blanks identified in this SDG?	✓			
Were target compounds detected in the field blanks?		✓		

Validation Area	Yes	No	NA	Findings/Comments
VII. ***Surrogate spikes/Internal Standards***				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any percent recovery (%R) was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
Were internal standard area counts within ± 50% of the average area calculated during calibration?	✓			
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
IX. Laboratory control samples				
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target compounds detected in the field duplicates?			✓	
XI. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions, dry weight factors, and clean-up activities applicable to level IV validation?	✓			
Were relative percent difference (RPD) of the results between two columns ≤ 40%?	✓			
XII. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:_____

LDC #: 54136 G3a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Reviewer: FT

METHOD: ✓ **GC** __ **HPLC**

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

What type of continuing calibration calculation was performed? __%D or __%R

Y N N/A Were continuing calibration standards analyzed at the required frequencies?

Y N N/A Did the continuing calibration standards meet the %D / %R validation criteria of ≤20.0% / 80-120%?

Level IV Only

Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Detector/ Column	Compound	%D (Limit ≤ 20.0)	RT (limit)	Associated Samples	Qualifications
	3/18/22 1055	CCV-PEST 13	CLP2	4,4'-DDT	20.1		WG1616582-1 BKK	J/UJ/A
				R	20.7		↓	↓

LDC #: SY1369G3a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (5 std)	Recalculated CF (5 std)	Reported CF (initial)	Recalculated CF (intial)	Reported %RSD	Recalculated %RSD
1	PEST 1S ICAL	7/29/21	99mmg Bttle CUP1	1.488	1.488	1.436	1.436	7.72	7.72
			4,4'-DDT	1.199	1.199	1.144	1.144	6.19	6.19
			CUP2	1.436	1.436	1.423	1.423	6.28	6.28
			↓	1.093	1.093	1.068	1.068	6.36	6.36
2	PEST 1S ICAL	1/31/22	↓	1.388	1.388	1.408	1.408	6.55	6.55
				1.198	1.198	1.218	1.218	4.03	4.03
			↓	1.312	1.312	1.360	1.360	6.72	6.72
			↓	1.160	1.160	1.135	1.135	4.30	4.30
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136G3q

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF -CF)/ave.CF

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ICAL)/ CCV Conc.	Reported CF/ Conc. CCV	Recalculated CF/ Conc. CCV	Reported %D	Recalculated %D
1	CCV PEST15	3/18/22	gamma BHC CLP1	1.436	1.466	1.466	2.1	2.1
			4,4'-DDT	1.144	1.057	1.057	7.6	7.6
			↓ CLP2	1.423	1.326	1.326	6.8	6.8
				1.068	0.853	0.853	20.1	20.1
2	CCV PEST18	3/18/22	↓	1.408	1.435	1.435	1.9	1.9
				1.218	1.299	1.299	6.7	6.7
				1.360	1.411	1.411	3.7	3.7
				1.135	1.233	1.233	8.6	8.6
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: SY1369 3a

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX	CLP1	50.0	36.671	73	73	0
TCMX	2	↓	33.858	68	68	↓
DCB	CLP1	↓	35.884	72	72	↓
DCB	CLP2	↓	39.731	79	79	↓

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C`	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 54136G3a

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: ✓ GC ___HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC/SA)
RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where SSC = Spiked sample concentration; LCS = Laboratory Control Sample; SA = Spike added; LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: WG716582-2/3

Compound	Spike Added ( )		Spike Sample Concentration ( )		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
gamma BHC	50.0	50.0	49.140	50.71	96	96	101	101	5	5
4,4'-DDT	↓	↓	49.798	53.382	100	100	107	107	7	7

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136G3a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example: 4,4'-DDT

Sample ID. WG1616582-2 LCS Compound Name ~~gamma BHC~~ FT

Concentration = $\frac{(546.9 \times 10^6)(35.0)(1)}{(240.0 \times 10^6)(1.144)(1/140)}$ = $= 0.35569$

#	Sample ID	FT Compound	Reported Concentrations (ug/L)	Recalculated Results Concentrations (ug/L)	Qualifications
	LCS	~~gamma BHC~~	~~0.344~~	0.35569	
		4,4'-DDT	0.356		

Comments:

LDC #: 54136F3b

SDG #: L2212979

Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET

Category B

Date: 6/12/22

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	Initial calibration/ICV	A/A	%D RSD/ICV ≤ 20
III.	Continuing calibration	A	CCV ≤ 20
IV.	Laboratory Blanks	A	
V.	Field blanks	ND	EB= EQUIPMENT BLANK
VI.	Surrogate spikes 1/4	A/A	
VII.	Matrix spike/Matrix spike duplicates	N	[illegible]
VIII.	Laboratory control samples	A	LCS ID
IX.	Field duplicates	N	
X.	Target analyte quantitation	A	No Result < RL > MDL
XI.	Target analyte identification	A	
XII.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-86	L2212979-02	Water	03/11/22
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

Notes:

	W4161946						

LDC #: 54136f3b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT

Method: ✓ GC __ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?			✓	
Were the RT windows properly established?	✓			
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
III. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
Were all the retention times within the acceptance windows?	✓			
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
V. Field Blanks				
Were field blanks identified in this SDG?	✓	W		
Were target analytes detected in the field blanks?		✓		
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed per analytical or extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			

Validation Area	Yes	No	NA	Findings/Comments
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
X. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target analyte identification				
Were the retention times of reported detects within the RT windows?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:_____

LDC #: 54136 F3b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF ug/L (100 std)	Recalculated CF ug/L (100 std)	Reported CF (initial)	Recalculated CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL PEST2	2/15/22	1260-1 cup1	0.084	0.084	0.083	0.083	8.40	8.40
			1260-1 cup2	0.085	0.085	0.083	0.083	11.46	11.46
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136F3b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. CF -CF)/ave.CF

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of target analyte
C = Concentration of target analyte

#	Standard ID	Calibration Date	Target Analyte	Average CF(Ical)/ CCV Conc.	Reported CF/ Conc. CCV	Recalculated CF/ Conc. CCV	Reported %D	Recalculated %D
1	CCV	3/18/22 10:16	1260 1 CLP1	0.083	0.076	0.076	8.4	8.4
			1260-1 CLP2	0.083	0.075	0.075	9.6	9.6
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136R3f

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX1	cP1	20.0	10.710	54	54	0
TCMX2	2		11.330	57	57	
DCB1	cP1		17.069	85	85	
DCB2	2	↓	16.437	82	82	↓

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 54136F3b

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

%Recovery = 100 * (SSC/SA)
RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where SSC = Spiked sample concentration
LCS = Laboratory Control Sample

SA = Spike added
LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: WG616946-2/3

Compound	Spike Added (ug/L)		Spike Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Aroclor 1260	250	250	202.938	193.490	81	81	77	77	5	5
			193.490							

Comments: _____

LDC #: 34136F3h

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the target analyte to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the target analyte In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. WG1616946-2 ID Aroclor 1260

Concentration = 202.988 (1) / (1/140) =

FT ~~1.457 ug/L~~ 1.449

#	Sample ID	Target analyte	Reported Concentrations (ug/L)	Recalculated Results Concentrations (ug/L)	Qualifications
	LCS	Aroclor 1260	1.45	FT ~~1.457~~ 1.449	
	1260-1 = $\frac{132.3 \times 10^6 \ (25.0)}{198.9 \times 10^6 \ (0.0826)}$ = 201.201			PCB 1260-1 =	201.201
				2 =	208.798
				3 =	194.896
				4 =	204.412
				5 =	205383
					202.988

Comments: _____

LDC #: 54136F96 **VALIDATION COMPLETENESS WORKSHEET** Date: 06/27/22
SDG #: L2212979 Category B Page: 1 of 1
Laboratory: Alpha Analytical, Inc., Westborough, MA Reviewer: SVG
2nd Reviewer: KLC

METHOD: LC/MS Perfluoroalkyl & Polyfluoroalkyl Substances (EPA Method 537M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	LC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/A	r^2 TV ≤ 30/50% ICV ≤ 30%
IV.	Continuing calibration/ISC	SW	%D ≤ 30% ISC ≤ 50%
V.	Laboratory Blanks	SW	
VI.	Field blanks	SW	EB = EQUIPMENT BLANK (same SDG) FB = FIELD BLANK
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	N	
X.	Labeled Compounds	SW	
VI.	Target analyte quantitation	A	Results < RL > MDL = J dets
XII.	Target analyte identification	A	
XIII.	System performance	A	
XIV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW-86	L2212979-02	Water	03/11/22
2				
3				
4				
5				
6				
7				
8				
9				
10				

Notes:

	WG1617912-1 BLANK						

Method: LC/MS PFAS (EPA Method 537M)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	√			
Was cooler temperature criteria met?	√			
II. LC/MS Instrument performance check				
Were the instrument performance reviewed and found to be within the validation criteria?	√			
III. Initial calibration and Initial Calibration Verification				
Did the laboratory perform a 5 point calibration prior to sample analysis?	√			
Were all percent relative standard deviations (%RSD) ≤ 20%?			√	
Was a curve fit used for evaluation? If yes, did the initial calibration meet the coefficient of determination (r^2) criteria of ≥ 0.990?	√			
Were all analytes within 70-130% or percent differences (%D) ≤30% of their true value for each calibration standard except the lowest point (50-150%)?	√			
Was the signal to noise (S/N) ratio for all compounds within the validation criteria?	√			
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	√			
Were all percent differences (%D) ≤ 30%?	√			
IV. Continuing calibration and Instrument Sensitivity Check				
Was a continuing calibration analyzed prior to sample analysis, after every 10 samples and at the end of the analytical sequence?	√			
Were all percent differences (%D) of the continuing calibration ≤ 30%?	√			
Were all the retention times within the acceptance windows?	√			
Was the signal to noise (S/N) ratio for all compounds within the validation criteria?	√			
Were all percent differences (%D) of the Instrument Sensitivity Check ≤ 50%?		✓		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	√			
Was a laboratory blank analyzed for each matrix and concentration?	√			
Was there contamination in the laboratory blanks?		√		
VI. Field blanks				
Were field blanks identified in this SDG?	√			
Were target compounds detected in the field blanks?		√		
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?		√		
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			√	

Validation Area	Yes	No	NA	Findings/Comments
VIII. Laboratory control samples				
Was an LCS analyzed per extraction batch for this SDG?	√			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	√			
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target compounds detected in the field duplicates?			✓	
X. Labeled compounds				
Were labeled compound percent recoveries (%R) within the QC limits?		✓		
XI. Compound quantitation				
Did the laboratory reporting limits (i.e. DL, LOD, LOQ) meet the QAPP?	√			
Did reported results include both branched and linear isomers?	√			
Were the correct ion transition, labeled compound and relative response factor (RRF) used to quantitate the compound?	√			
Were compound quantitation and reporting limits adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	√			
XII. Target compound identification				
Was the signal to noise (S/N) ratio for all compounds within the validation criteria?	√			
Were two transitions and the ion transition ratio per analyte monitored and documented with the exception of PFBA and PFPeA?	√			
Were ion ratios within QC limits?	✓			
XIII. System performance				
System performance was found to be acceptable.	√			
XIV. Overall assessment of Data				
Overall assessment of data was found to be acceptable.	√			

TARGET COMPOUND WORKSHEET

METHOD: PFAS

A. Perfluorobutanoic acid (PFBA)	X. 8:2 Fluorotelomer sulfonate (8:2 FTS)	
B. Perfluoropentanoic acis (PFPeA)	Y. 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	
C. Perfluorohexanoic acid (PFHxA)	Z. HFPO-DA (GenX)	
D. Perfluoroheptanoic acid (PFHpA)	AA. 9Cl-PF3ONS	(F-53B Major)
E. Perfluorooctanoic acid (PFOA)	BB. 11Cl-PF3OUdS	(F-53B Minor)
F. Perfluorononanoic acid (PFNA)	CC. Hexafluoropropylene oxide dimer acid (HFPO-DA)	
G. Perfluorodecanoic acid (PFDA)	DD. 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	
H. Perfluoroundecanoic acid (PFUnDA)	EE. 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	
I. Perfluorododecanoic acid (PFDoA)	FF. 4:2 Fluorotelomersulfonic acid	
J. Perfluorotridecanoic acid (PFTrDA)	GG. 6:2 Fluorotelomersulfonic acid	
K. Perfluorotetradecanoic acid (PFTeDA)	HH. 8:2 Fluorotelomersulfonic acid	
L. Perfluorobutanesulfonic acid (PFBS)	II. 1H,1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)	
M. Perfluoropentanesulfonic acid (PFPeS)	JJ. 1H,1H, 2H, 2H- Perfluorooctanesulfonic acid (6:2 FTS)	
N. Perfluorohexanesulfonic acid (PFHxS)	KK. 1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	
O. Perfluoroheptanesulfonic acid (PFHpS)	LL. N-Methylperfluorooctanesulfonamide (NMeFOSA)	
P. Perfluorooctanesulfonic acid (PFOS)	MM. 3:3 Fluorotelomer carboxylate (3:3 FTCA)	
Q. Perfluorononanesulfonic acid (PFNS)	NN. 5:3 Fluorotelomer carboxylate (5:3 FTCA)	
R. Perfluorodecanesulfonic acid (PFDS)	OO. 7:3 Fluorotelomer carboxylate (7:3 FTCA)	
S. Perfluorooctanesulfonamide (PFOSA)	PP. Perfluorooctadecanoic acid (PFODA)	
T. N-Methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	QQ. PFOA/PFOS, Total	
U. N-Ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)		
V. 4:2 Fluorotelomer sulfonate (4:2 FTS)		
W. 6:2 Fluorotelomer sulfonate (6:2 FTS)		

LDC #: 54136 F9b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Reviewer: JVG

METHOD: LC/MS PFAs (EPA Method 537M)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a continuing calibration standard analyzed after every 10 injections for each instrument?

Y (N) N/A Were all continuing calibration percent differences (%D) ≤30 %?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤30.0%)	Finding RRF (Limit:)	Associated Samples	Qualifications
	03/24/22	I57272	br-T	69.7 (≤50%)		All	J/UJ/A (T) Ref
		(ISC)	br-U	64.1			(U) ND

LDC #: 54136F96

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: JVG

METHOD: LC/MS PFAS (EPA Method 537M)

Y N N/A Was a method blank analyzed for each matrix?
Y N N/A Was a method blank analyzed for each concentration preparation level?
Y N N/A Was a method blank associated with every sample?
Y N N/A Was the blank contaminated? If yes, please see qualification below.

Blank extraction date: 03/21/22 **Blank analysis date:** 03/24/22
Conc. units: ng/L **Associated Samples:** All (>RL)

Compound	Blank ID	Sample Identification							
	WG1617912-1	BLANK							
P	1.00								
DQ	1.00								

Blank extraction date: _____ **Blank analysis date:** _____
Conc. units: _____ **Associated Samples:** _____

Compound	Blank ID	Sample Identification							

LDC #: 54136F96

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: JVG

METHOD: LC/MS PFAS (EPA Method 537M)

Y N N/A Were field blanks identified in this SDG?

Y N N/A Were target compounds detected in the field blanks?

Blank units: ng/L **Associated sample units:** ng/L

Sampling date: 03/11/22

Field blank type: (circle one) Trip Blank/Field Blank / Rinsate / Other: EB Associated Samples: All (> RL)

Compound	Blank ID	Sample Identification								
EQUIPMENT BLANK		FIELD BLANK								
B	0.384									
P	0.488	1.48								
QQ	0.488	1.48								

Blank units: _____ **Associated sample units:** _____

Sampling date: _____

Field blank type: (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: _____

Compound	Blank ID	Sample Identification								

LDC #: 54136F96

VALIDATION FINDINGS WORKSHEET
Labeled Compounds

Reviewer: JVG

METHOD: LC/MS PFAS (EPA 537M)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Were all labeled compound recoveries within the QC criteria?

#	Sample ID	Labeled Compound	Limits (50-150%/25-150%*)	Qualifications
	1 (Det)	M2-JJ	513 (50-150)	J / UJ (P) (JJ)
	(ND)	M2-kk	428	(kk)
		D3-T	156	(T)

*Poor performers: PFBA PFPeA 6FTS 8FTS 4FTS PFOSA

LDC#: 54136F96

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: LC/MS PFCs (EPA Method 537Mod)

Calibration Date	Instrument	Compound	Standard	(Y) Area ratio	(X) Conc ratio	CF
3/16/2022	LCMS02	L-PFOA	0.5	0.04183	0.050	0.837
			1	0.07936	0.100	0.794
		M8PFOA	2.5	0.15512	0.200	0.776
			5	0.37394	0.500	0.748
			10	0.72251	1.000	0.723
			25	1.99080	2.500	0.796
			50	3.99460	5.000	0.799
			100	8.74518	10.000	0.875
			250	22.76490	25.000	0.911
					Ave	0.782

Regression Output	Calculated	Reported
Constant	0.000000	0.000000
R Squared	0.999699	0.996646
X Coefficient(s)	0.91082676	0.876398
Correlation Coefficient	0.999849	
Coefficient of Determination (r^2)	0.999699	0.996646

LDC#: 54136F96

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Calculation Verification

Reviewer: JVG

METHOD: LC/MS PFCs (EPA Method 537Mod)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
RRF = (Ax)(Cis)/(Ais)(Cx)

Where:
ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
Ax = Area of compound
Cx = Concentration of compound,
Ais = Area of associated internal standard
Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	Conc (Actual)	Reported Conc (CCV)	Recalculated Conc (CCV)	Reported % R	Recalculated % R
1	WG1619246-3,537ILOW	3/24/2022	PFOA (M8PFOA)	0.500	0.464	0.464	92.8	92.8
			PFOS (M8PFOS)	0.394	0.408	0.408	103.5	103.5

LDC #: 54136F96

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: JVG

METHOD: LC/MS PFAS (EPA Method 537)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA Where: SSC = Spike concentration
SA = Spike added

RPD = I LCSC - LCSDC I * 2/(LCSC + LCSDC) LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: WG617912-2 LCS

Compound	Spike Added (ng/L)		Spike Concentration (ng/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
PFOA	40.0	NA	44.8	NA	112	112				
PFOS	37.1	↓	47.8	↓	129	129				

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54176F96

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: JVG

METHOD: LC/MS PFAS (EPA Method 537)

The concentration of the sample was calculated for the compound identified below using the following calculation:

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

A_x	=	Area of the characteristic ion (EICP) for the compound to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
V_o	=	Volume or weight of sample extract in milliliters (ml) or grams (g).
V_i	=	Volume of extract injected in microliters (ul)
V_t	=	Volume of the concentrated extract in microliters (ul)
Df	=	Dilution Factor.
%S	=	Percent solids, applicable to soil and solid matrices only.
2.0	=	Factor of 2 to account for GPC cleanup

Example:

Sample I.D. 1, PFOA:

X Conc. $= \frac{\left[\left(\frac{63899}{83095}\right)(10)\right]}{(0.876398)} = 8.774$

PFOA total = 8.774 + 0.673 = 9.447

final conc. $= \frac{(9.447)(1mL)(1000)}{(248.3g)} = 38 ng/L$

#	Sample ID	Compound	Reported Concentration (ng/L)	Calculated Concentration (ng/L)	Qualification
	1	PFOA	38.0	38	--

Site: 737 4th Ave, Brooklyn, NY
Laboratory: Alpha Analytical, Inc., Westborough, MA
Report No.: L2212979
Reviewer: An Le and Kevin Kha/Laboratory Data Consultants for P.W. Grosser Consulting
Date: July 7, 2022

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
MW-86	L2212979-02	Metals
MW-86F	L2212979-02F	Metals

Samples appended with "F" were analyzed for dissolved metals

Associated QC Samples(s):
Field/Trip Blanks: Equipment Blank
Field Duplicate pair: None Associated

The above-listed water samples were collected on March 11, 2022 and were analyzed for metals by SW-846 methods 6020B/7470A. The data validation was performed in accordance with the USEPA Region 2 *Standard Operating Procedure for the Evaluation of Metals for the Contract Laboratory Program,* SOP HW-3b/c, Revision 1 (September 2016), and the USEPA *Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review,* EPA 542-R-20-006 (November 2020), modified as necessary to accommodate the non-CLP methodologies used.

The inorganic data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness
- Holding Times and Sample Preservation
- Instrument Calibration
- Contract Required Quantitation Limit (CRQL) Standard Recoveries
- Blank Analysis Results
- Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Duplicate Results
- Laboratory Control Sample (LCS)
- Serial Dilution Results
- Internal Standards
- Field Duplicate Results
- Detection Limits Results
- Sample Quantitation Results

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

ICP-MS Tunes

All criteria were met.

Instrument Calibration

All criteria were met.

CRQL Standard Recoveries

All criteria were met.

Blank Results

Analytes were detected below the reporting limits in the laboratory blank samples. The following table summarizes the contamination and validation actions taken.

Blank ID	Analyte	Level Detected	Action Level	Associated Samples
PB (prep blank)	Thallium	0.00026 mg/L	RL	MW-86
	Mercury	0.00016 mg/L	RL	
ICB/CCB	Iron	47.4 ug/L	RL	MW-86
	Sodium	47.8 ug/L	RL	
	Thallium	1.39 ug/L	RL	
PB (prep blank)	Antimony	0.00056 mg/L	RL	MW-86F
	Barium	0.00025 mg/L	RL	
	Chromium	0.00030 mg/L	RL	
	Manganese	0.00114 mg/L	RL	
	Nickel	0.0607 mg/L	RL	
	Thallium	0.00025 mg/L	RL	

Blank ID	Analyte	Level Detected	Action Level	Associated Samples
ICB/CCB	Arsenic	0.196 ug/L	RL	MW-86F
	Iron	36.0 ug/L	RL	
	Sodium	51.7 ug/L	RL	
	Thallium	1.10 ug/L	RL	

Blank Actions for analytes detected below the reporting limit (RL).
If the sample result is < RL, report the result as nondetect (U) at the RL.
If the sample result is > RL or nondetect, no action is required.
Blank Actions for analytes detected above the reporting limit or RL.
If the sample result is < RL and <action level; report the result as nondetect (U) at the RL.
If the sample result is > RL and < action level; report the result as nondetect (U) at the reported value.
If the sample result is > action level or nondetect, no action is required.

No samples were qualified since the associated sample results were nondetect.

Contamination was detected in the equipment blank sample Equipment Blank for the metals analyses. The following table summarizes the contamination greater than the reporting limit and validation actions taken.

Blank ID	Analyte	Level Detected	Action Level	Associated Samples
Equipment Blank	Aluminum	0.00671 mg/L	RL	MW-86
	Iron	0.0212 mg/L	RL	
	Thallium	0.00019 mg/L	RL	
Equipment Blank	Antimony	0.00054 mg/L	RL	MW-86F
	Barium	0.00055 mg/L	RL	
	Calcium	0.128 mg/L	RL	
	Magnesium	0.0375 mg/L	RL	
	Manganese	0.00146 mg/L	RL	
	Sodium	0.407 mg/L	RL	
	Thallium	0.00015 mg/L	RL	

Blank Actions for analytes detected above the reporting limit (RL).
If the sample result is < RL and < action level; report the result as nondetect (U) at the RL.
If the sample result is > RL and < action level; report the result as nondetect (U) at the reported value.
If the sample result is > action level or nondetect, no action is required.

No samples were qualified since the associated sample results were nondetect.

ICP ICS Results

Analytes that did not meet criteria in the ICSA and ICSAB analyses are summarized in the following table.

ICS Identification	Analyte	%R (Limits)	Associated Samples	Validation Actions
ICSA (09:31)	Sodium	79 (80-120)	MW-86	J detects

The sodium result may be biased low due to low ICSA percent recovery. The result can be used for project objectives as an estimated value (J) which may have a minor impact on the data usability.

MS/MSD Results

MS/MSD analyses were performed on associated project samples MW-6 and MW-6F (both from SDG L2212899) for metals analyses. All criteria were met.

Laboratory Duplicate Results

Laboratory duplicates were not associated with this sample set. Validation action was not required on this basis.

LCS Results

All criteria were met.

Serial Dilution Results

A serial dilution analysis was performed on associated project samples MW-6 and MW-6F (both from SDG L2212899) for metals analyses. The following table lists the serial dilution percent differences (%D) outside of control limits in the metals analyses and the resulting validation actions.

Diluted Sample	Analyte	%D (Limits)	Associated Samples	Validation Action
MW-6	Calcium	27 (≤10)	MW-86	J detects
	Iron	24 (≤10)		J detects
	Magnesium	21 (≤10)		J detects
	Manganese	26 (≤10)		J detects

The calcium, iron, magnesium, and manganese results for the sample listed above were estimated due to serial dilution percent difference exceedances. The bias cannot be determined. The results can be used for project objectives as estimated values (J) which may have a minor impact on the data usability.

Internal Standards

All criteria were met.

Field Duplicate Results

A field duplicate pair was not associated with this sample set. Validation action was not required on this basis.

Detection Limits Results

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the metals analyses. These results were estimated (J) by the laboratory.

Dilutions were not required for metals analyses.

Sample Quantitation Results

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Form 1
METALS

Client	: P. W. Grosser	**Lab Number**	: L2212979
Project Name	: TOT2101	**Project Number**	: TOT2101
Lab ID	: L2212979-02	**Date Collected**	: 03/11/22 13:05
Client ID	: MW-86	**Date Received**	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	**Date Analyzed**	: 03/23/22 18:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: SV
Lab File ID	: WG1618820.pdf	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/17/22

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7429-90-5	Aluminum, Total	0.0978	0.0100	0.00327		
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U	U
7440-38-2	Arsenic, Total	0.02213	0.00050	0.00016		
7440-39-3	Barium, Total	0.1683	0.00050	0.00017		
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U	U
7440-43-9	Cadmium, Total	0.00098	0.00020	0.00005		
7440-70-2	Calcium, Total	151.	0.100	0.0394		J
7440-47-3	Chromium, Total	0.00073	0.00100	0.00017	J	J
7440-48-4	Cobalt, Total	0.00105	0.00050	0.00016		
7440-50-8	Copper, Total	0.00826	0.00100	0.00038		
7439-89-6	Iron, Total	45.2	0.0500	0.0191		J
7439-92-1	Lead, Total	0.00250	0.00100	0.00034		
7439-95-4	Magnesium, Total	56.8	0.0700	0.0242		J
7439-96-5	Manganese, Total	2.344	0.00100	0.00044		J
7440-02-0	Nickel, Total	0.00161	0.00200	0.00055	J	J
7440-09-7	Potassium, Total	10.6	0.100	0.0309		
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U	U
7440-23-5	Sodium, Total	171.	0.100	0.0293		J
7440-28-0	Thallium, Total	ND	0.00200	0.00014	U	U
7440-62-2	Vanadium, Total	0.00200	0.00500	0.00157	J	J
7440-66-6	Zinc, Total	0.03525	0.01000	0.00341		

KK 7/19/22

Form 1
METALS

Client	: P. W. Grosser	**Lab Number**	: L2212979
Project Name	: TOT2101	**Project Number**	: TOT2101
Lab ID	: L2212979-02	**Date Collected**	: 03/11/22 13:05
Client ID	: MW-86	**Date Received**	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	**Date Analyzed**	: 03/22/22 20:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: SV
Lab File ID	: WG1618295.pdf	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/22/22

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7429-90-5	Aluminum, Dissolved	0.00433	0.0100	0.00327	J	J
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U	U
7440-38-2	Arsenic, Dissolved	0.00289	0.00050	0.00016		
7440-39-3	Barium, Dissolved	0.1215	0.00050	0.00017		
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U	U
7440-70-2	Calcium, Dissolved	148.	0.100	0.0394		
7440-47-3	Chromium, Dissolved	ND	0.00100	0.00017	U	U
7440-48-4	Cobalt, Dissolved	0.00078	0.00050	0.00016		
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U	U
7439-95-4	Magnesium, Dissolved	47.2	0.0700	0.0242		
7439-96-5	Manganese, Dissolved	2.054	0.00200	0.00044		
7440-02-0	Nickel, Dissolved	0.00081	0.00200	0.00055	J	J
7440-09-7	Potassium, Dissolved	10.5	0.100	0.0309		
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U	U
7440-23-5	Sodium, Dissolved	172.	0.100	0.0293		
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U	U
7440-66-6	Zinc, Dissolved	0.00380	0.01000	0.00341	J	J

KK 7/14/22

Form 1
METALS

Client	: P. W. Grosser	Lab Number	: L2212979
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212979-02	Date Collected	: 03/11/22 13:05
Client ID	: MW-86	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/30/22 20:55
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,7470A	Analyst	: ZK
Lab File ID	: WG1621345.pdf	Instrument ID	: NIC1
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 7470A	Date Digested	: 03/17/22

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U	U

KK 7/14/22

Form 1
METALS

Client	: P. W. Grosser	Lab Number	: L2212979
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2212979-02	Date Collected	: 03/11/22 13:05
Client ID	: MW-86	Date Received	: 03/11/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/23/22 07:25
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,7470A	Analyst	: ZK
Lab File ID	: WG1618712.pdf	Instrument ID	: NIC1
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 7470A	Date Digested	: 03/22/22

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U	U

KK 7/14/22

LDC #: 54136F4a

SDG #: L2212979

Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET

Category B

Date: 7/5/22

Page: 1 of 1

Reviewer: ATL

2nd Reviewer: KW

METHOD: Metals (EPA SW-846 Method 6020B/7470A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	SW	
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	EB= Equipment Blank
VII.	Matrix Spike/Matrix Spike Duplicates	A	L2212899-02 MS/MSD (MW-6 MS/MSD)- From SDG # L2212899
VIII.	Duplicate sample analysis	N	
IX.	Serial Dilution	SW	L2212899-02 (MW-6)- From SDG# L2212899
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	N	
XII.	Internal Standard (ICP-MS)	A	
XIII.	Target Analyte Quantitation	A	MDL < samples < RL : Jdet
XIV	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

Samples appended with F were analyzed as dissolved.

	Client ID	Lab ID	Matrix	Date
1	MW-86	L2212979-02	Water	03/11/22
2	MW-86F	L2212979-02F	Water	03/11/22
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				

Notes:

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
I. Technical holding times				
Were all technical holding times met?	✓			
Were all water samples preserved to a pH of <2.	✓			
II. ICP-MS Tune				
Were mass resolutions within 0.1 amu for all isotopes in the tuning solution?	✓			
Were %RSDs of isoptoes in the tuning solution ≤5%?	✓			
III. Calibration				
Were all instruments calibrated daily?	✓			
Were the proper standards used?	✓			
Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits?	✓			
Were the low level standard checks within 70-130%?			✓	not reported.
Were all initial calibration correlation coefficients within limits as specifed by the method?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks?	✓			
Was there contamination in the initial and continuing calibration blanks?	✓			
V. Interference Check Sample				
Were the interference check samples performed daily?	✓			
Were the AB solution recoveries within 80-120%?	✓			
VI. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)	✓			
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?	✓			
VII. Laboratory Control Samples				
SDG?	✓			

Were the LCS recoveries and RPDs (if applicable) within QC limits?	✓			
METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
VIII. Internal Standards				
Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits?	✓			
If the recoveries were outside the limits, was a reanalysis performed?			✓	
IX. Serial Dilution				
Were all percent differences <10%?		✓		
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		✓		
X. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample dilutions?	✓			
Were all soil samples dry weight corrected?			✓	
XI. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	✓			
XII. Field Duplicates				
Were field duplicates identifed in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XIII. Field Blanks				
Were field blanks identified in this SDG?	✓			
Were target analytes detected in the field blanks?	✓			

LDC #: 54136F4a

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: ATV

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
2	W	(Al) (Sb) (As) (Ba) (Be) (Cd) (Ca) (Cr) (Co) (Cu) (Fe) (Pb) (Mg) (Mn) (Hg) (Ni) (K) (Se) (Ag) (Na) (Tl) (V) (Zn), Mo, B, Sn, Ti, ___ ___
1	↓	(Al) (Sb) (As) (Ba) (Be) (Cd) (Ca) (Cr) (Co) (Cu) (Fe) (Pb) (Mg) (Mn) (Hg) (Ni) (K) (Se) (Ag) (Na) (Tl) (V) (Zn), Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___

Comments: Mercury by CVAA if performed

LDC #: 54136F4a

VALIDATION FINDINGS WORKSHEET
ICP Interference Check Sample

Reviewer: ATL

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were ICP interference check samples performed as required?

Y N N/A Were the AB solution percent recoveries (%R) within the control limits of 80-120% ?

LEVEL IV ONLY:

Y N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	ICS Identification	Analyte	Finding	Associated Samples	Qualifications
	03/23/22	ICSA (09:31)	Na	79 (80-120)	1	J/UJ/A (detect)

Comments:

LDC #: 54136F4a

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: NA
Sample Concentration units, unless otherwise noted: mg/L Associated Samples: 1

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (mg/L)	Maximum ICB/CCB[a] (ug/L)	Action Level									
Tl		0.00026											
Hg		0.00016											
Fe			47.4										
Na			47.8										
Tl			1.39										

Sample Concentration units, unless otherwise noted: mg/L Associated Samples: 2

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (mg/L)	Maximum ICB/CCB[a] (ug/L)	Action Level									
Sb		0.00056											
Ba		0.00025											
Cr		0.00030											
Mn		0.00114											
Na		0.0607											
Tl		0.00025											
As			0.196										
Fe			36.0										
Na			51.7										
Tl			1.10										

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 54136F4a

VALIDATION FINDINGS WORKSHEET
Field Blanks

METHOD: Trace Metals (EPA SW846 6010/6020/7000)

Blank units: mg/L **Associated sample units:** mg/L
Sampling date: 03/11/22 Soil factor applied _____
Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: 1

Analyte	Blank ID	Sample Identification									
	Equipment Blank	Action Limit									
Al	0.00671										
Fe	0.0212										
Tl	0.00019										

Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: 2

Analyte	Blank ID	Sample Identification										
	Equipment Blank Dis	Action Limit										
Sb	0.00054											
Ba	0.00055											
Ca	0.128											
Mg	0.0375											
Mn	0.00146											
Na	0.407											
Tl	0.00015											

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

LDC #: 54136F4a

VALIDATION FINDINGS WORKSHEET
ICP Serial Dilution

Reviewer: ATL

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A If analyte concentrations were > 50X the MDL (ICP) ,or >100X the MDL (ICP/MS), was a serial dilution analyzed?

Y (N) N/A Were ICP serial dilution percent differences (%D) ≤10%?

Y (N) N/A Is there evidence of negative interference? If yes, professional judgement will be used to qualify the data.

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Diluted Sample ID	Matrix	Analyte	%D (Limits)	Associated Samples	Qualifications
	MW-6 (L2212899-2) From SDG # L2212899	W	Ca	27 (≤10%)	1	J/UJ/A (detect)
			Fe	24 (≤10%)	1	J/UJ/A (detect)
			Mg	21 (≤10%)	1	J/UJ/A (detect)
			Mn	26 (≤10%)	1	J/UJ/A (detect)

Comments:

LDC #: 54136F4a

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: ATL

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found / True x 100 Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
	ICP (Initial calibration)						
ICV	ICP/MS (Initial calibration) 3/22/22 @ 09:02	Ba	50.699	50.000	101	101	Y
ICV	CVAA (Initial calibration) 3/23 @ 06:24	Hg	0.003061 mg/L	0.00300 mg/L	102	102	Y
	ICP (Continuing calibration)						
CCV	ICP/MS (Continuing calibration) 3/23/22 @ 19:05	K	6275.030	6000.00	105	105	Y
CCV	CVAA (Continuing calibration) 3/30 @ 22:04	Hg	0.004739	0.00500 mg/L	95	95	Y

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
3/22	Mass Axis	115	114.9144	± 0.1 AMU	NA	Y
	%RSD	238	108066	≤ 5% RSD	0.5	Y

Comments:

LDC #: 54136F4a

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result). True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration, D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L), SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	mg/L Found / S / I (units)	mg/L True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSA	ICP interference check 3/22 @ 09:16	Al	16530.530 µg/L	20000 µg/L	83	82	Y
LCS (DIS)	Laboratory control sample	Cr	0.2067	0.200	103	103	Y
From SDG # L2212899 MW-6 MS	Matrix spike	Hg	(SSR-SR) 0.004457	0.005	89	89	Y
From SDG # L2212899 MW-6 MS/MSD	Duplicate	Hg	0.004575	0.004457	3	3	Y
	Post digestion spike						
From SDG # L2212899 MW-6	ICP serial dilution	Mn	3.555	2.828	26	26	Y

Comments: _____

LDC #: 54136F4a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: ATV

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
(Y) N N/A Are all detection limits below the CRDL?

Detected analyte results for Zn were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

Recalculation: #2

$3.809 \times \frac{1}{1000} = 0.003809$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

#	Sample ID	Analyte	Reported Concentration (mg/L)	Calculated Concentration (mg/L)	Acceptable (Y/N)
	1	Co	0.00105	0.001058	Y
	2	Zn	0.00380	0.003809	Y
	1	Hg	ND	ND (0.000019)	Y
	2	Hg	ND	ND (-0.004)	Y

Note:

Site:	737 4th Ave, Brooklyn, NY
Laboratory:	Alpha Analytical, Inc., Westborough, MA
Report No.:	L2213494
Reviewer:	Felomina Tanguilig, Josephine Go, and Kevin Kha/Laboratory Data Consultants for P.W. Grosser Consulting
Date:	June 29, 2022

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
MW002	L2213494-01	1,4-Dioxane, Pesticide, PCB, PFAS

Associated QC Samples(s):
Field/Trip Blanks: EQUIPMENT BLANK, FIELD BLANK
Field Duplicate pair: None Associated

The above-listed water sample was collected on March 15, 2022 and was analyzed for 1,4-dioxane by SW-846 method 8270D in selected ion monitoring (SIM) mode, organochlorine pesticides by SW-846 method 8081B, polychlorinated biphenyls (PCBs) by SW-846 method 8082A, and perfluoroalkyl and polyfluoroalkyl substances (PFAS) by method 537 modified. The data validation was performed in accordance with the USEPA Region 2 *Standard Operating Procedure for Semivolatile Data Validation,* SOP HW-35A, Revision 0 (June 2015), the USEPA Region 2 *Standard Operating Procedure for Validating Pesticide Compounds, Organochlorine Pesticides by Gas Chromatography SW-846 Method 8081B,* SOP HW-44, Revision 1.1 (December 2010), the USEPA Region 2 *Standard Operating Procedure for Validating PCB Compounds, PCBs by Gas Chromatography SW-846 Method 8082A,* SOP HW-45, Revision 1 (October 2006), the USEPA *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review,* EPA 540-R-20-005 (November 2020), and the Guidelines for Sampling and Analysis of PFAS under NYSDEC's Part 375 Remedial Programs (January 2021), modified as necessary to accommodate the non-CLP methodologies used.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- GC/Electron Capture Detector (GC/ECD) Instrument Performance Checks
- Liquid Chromatography/Mass Spectrometry (LC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards/Labeled Compounds
- Field Duplicate Results
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All technical holding time requirements were met.

GC/MS Tunes

1,4-Dioxane

All criteria were met.

GC/ECD Instrument Performance Checks

Pesticide

All criteria were met.

LC/MS Tunes

PFAS

All criteria were met.

Initial and Continuing Calibrations

1,4-Dioxane and PCB

All criteria were met.

Pesticide

Initial calibration:

All criteria were met.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Standard ID	Column	Compound	CC %D	Associated Samples		Validation Action
03/04/22	CCV-PEST11	CLP 2	Heptachlor epoxide	27.1	MW002	XX	UJ nondetects
			gamma-Chlordane	28.9		XX	UJ nondetects
			alpha-Chlordane	22.3		XX	UJ nondetects
			4,4'-DDE	27.9		XX	UJ nondetects
			Endosulfan I	26.6		XX	UJ nondetects
			Endrin	20.2		XX	UJ nondetects
			4,4'-DDT	31.3		XX	UJ nondetects
			Methoxychlor	28.0		XX	UJ nondetects
			Endosulfan sulfate	21.7		XX	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The heptachlor epoxide, gamma-chlordane, alpha-chlordane, 4,4'-DDE, endosulfan I, endrin, 4,4'-DDT, methoxychlor, and endosulfan sulfate results were estimated due to continuing calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

PFAS

Initial calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Standard ID	Compound	IC %D	Associated Samples		Validation Action
03/07/22	I15756	N-Methylperfluorooctanesulfonamidoacetic acid	32.7	MW002	SS	UJ nondetects
		N-Ethylperfluorooctanesulfonamidoacetic acid	32.4		SS	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
ISC = Instrument sensitivity check (ISC) percent difference (%D) > 50; estimate (J/UJ) positive and nondetect results.

The n-methylperfluorooctanesulfonamidoacetic acid and n-ethylperfluorooctanesulfonamidoacetic acid results were estimated due to second source calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Standard ID	Compound	CC %D	Associated Samples		Validation Action
03/24/22	I17161	br-N-Methylperfluorooctanesulfonamidoacetic acid	58	MW002	ISC	UJ nondetects
		br-N-Ethylperfluorooctanesulfonamidoacetic acid	56		ISC	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
ISC = Instrument sensitivity check (ISC) percent difference (%D) > 50; estimate (J/UJ) positive and nondetect results.

The n-methylperfluorooctanesulfonamidoacetic acid and n-ethylperfluorooctanesulfonamidoacetic acid results were estimated due to instrument sensitivity check exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Blanks

1,4-Dioxane, Pesticide, and PCB

Contamination was not detected in the method blanks.

No positive results were found in the equipment blank sample EQUIPMENT BLANK for 1,4-dioxane, pesticide, and PCB analyses.

PFAS

Contamination was not detected in the method blanks.

No positive results were found in the equipment blank sample EQUIPMENT BLANK and field blank sample FIELD BLANK for PFAS analysis.

Surrogate Recoveries

1,4-Dioxane and PCB

All criteria were met.

Pesticide

The following table lists the surrogate percent recoveries (%R) outside of control limits in the pesticide analysis and the resulting validation actions.

Sample ID	Column	Surrogate	%R (Limits)	Validation Action
MW002	CLP 1	Decachlorobiphenyl	25 (30-150)	UJ nondetects

The MW002 pesticide results may be biased low. The positive results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

MS/MSD Results

MS/MSD analyses were not associated with this sample set. Validation action was not required on this basis.

LCS Results

All criteria were met.

Internal Standards

1,4-Dioxane, Pesticide, and PCB

All criteria were met.

Labeled Compounds

PFAS

The following table lists the labeled compound percent recoveries (%R) outside of control limits in the PFAS analysis and the resulting validation actions.

Sample	Labeled Compound	%R (Limits)	Affected Compound	Validation Action
MW002	M2-6:2 FTS	388 (50-150)	1H,1H,2H,2H-Perfluorooctanesulfonic acid	J detects/UJ nondetects
	M2-8:2 FTS	433 (50-150)	1H,1H,2H,2H-Perfluorodecane sulfonic acid	J detects/UJ nondetects

The 1h,1h,2h,2h- perfluorooctanesulfonic acid and 1h,1h,2h,2h-perfluorodecane sulfonic acid results for the sample listed above was estimated due to labeled compound percent recovery exceedances. The bias cannot be determined. The results can be used for project objectives as estimated values (J) or nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Field Duplicate Results

A field duplicate pair was not associated with this sample set. Validation action was not required on this basis.

Quantitation Limits and Data Assessment

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the PCB and PFAS analyses. These results were qualified as estimated (J) by the laboratory.

No results were reported below the RL and above the MDL in the 1,4-dioxane and pesticide analyses.

Dilutions were not required for 1,4-dioxane, pesticide, PCB, and PFAS analyses.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

PFAS

All PFAS compounds flagged F by the laboratory for sample MW002 were due to ion ratio outside of QC limits. The results can be used for project objectives as estimated values (J) which may have a minor impact on the data usability.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Results Summary
Form 1
1,4 Dioxane by 8270D-SIM

Client	: P. W. Grosser	Lab Number	: L2213494
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2213494-01	Date Collected	: 03/15/22 10:30
Client ID	: MW002	Date Received	: 03/15/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/18/22 04:03
Sample Matrix	: WATER	Date Extracted	: 03/17/22
Analytical Method	: 1,8270D-SIM	Dilution Factor	: 1
Lab File ID	: F1103172223	Analyst	: DB
Sample Amount	: 260 ml	Instrument ID	: BNA11
Extraction Method	: EPA 3510C	GC Column	: RTX-5
Extract Volume	: 2500 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	271.	144	32.6	

KK 7/14/22

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: P. W. Grosser	Lab Number	: L2213494
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2213494-01	Date Collected	: 03/15/22 10:30
Client ID	: MW002	Date Received	: 03/15/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/21/22 12:59
Sample Matrix	: WATER	Date Extracted	: 03/20/22
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 11220321a-10	Analyst	: EJL
Sample Amount	: 104 ml	Instrument ID	: PEST11
Extraction Method	: EPA 3510C	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
319-86-8	Delta-BHC	ND	0.019	0.004	U	UJ
58-89-9	Lindane	ND	0.019	0.004	U	UJ
319-84-6	Alpha-BHC	ND	0.019	0.004	U	UJ
319-85-7	Beta-BHC	ND	0.019	0.005	U	UJ
76-44-8	Heptachlor	ND	0.019	0.003	U	UJ
309-00-2	Aldrin	ND	0.019	0.002	U	UJ
1024-57-3	Heptachlor epoxide	ND	0.019	0.004	U	UJ
72-20-8	Endrin	ND	0.039	0.004	U	UJ
7421-93-4	Endrin aldehyde	ND	0.039	0.008	U	UJ
53494-70-5	Endrin ketone	ND	0.039	0.005	U	UJ
60-57-1	Dieldrin	ND	0.039	0.004	U	UJ
72-55-9	4,4'-DDE	ND	0.039	0.004	U	UJ
72-54-8	4,4'-DDD	ND	0.039	0.004	U	UJ
50-29-3	4,4'-DDT	ND	0.039	0.004	U	UJ
959-98-8	Endosulfan I	ND	0.019	0.003	U	UJ
33213-65-9	Endosulfan II	ND	0.039	0.005	U	UJ
1031-07-8	Endosulfan sulfate	ND	0.039	0.005	U	UJ
72-43-5	Methoxychlor	ND	0.192	0.007	U	UJ
8001-35-2	Toxaphene	ND	0.192	0.060	U	UJ
5103-71-9	cis-Chlordane	ND	0.019	0.006	U	UJ
5103-74-2	trans-Chlordane	ND	0.019	0.006	U	UJ

KK 7/14/22

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: P. W. Grosser	Lab Number	: L2213494
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2213494-01	Date Collected	: 03/15/22 10:30
Client ID	: MW002	Date Received	: 03/15/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/21/22 12:59
Sample Matrix	: WATER	Date Extracted	: 03/20/22
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 11220321a-10	Analyst	: EJL
Sample Amount	: 104 ml	Instrument ID	: PEST11
Extraction Method	: EPA 3510C	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
57-74-9	Chlordane	ND	0.192	0.045	U	U

KK ~~7/14/22~~
7/14/22

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: P. W. Grosser	Lab Number	: L2213494
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2213494-01	Date Collected	: 03/15/22 10:30
Client ID	: MW002	Date Received	: 03/15/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/30/22 13:46
Sample Matrix	: WATER	Date Extracted	: 03/29/22
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: 12220330a-20	Analyst	: AWS
Sample Amount	: 140 ml	Instrument ID	: PEST12
Extraction Method	: EPA 3510C	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
12674-11-2	Aroclor 1016	ND	0.071	0.061	U	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U	
11141-16-5	Aroclor 1232	ND	0.071	0.061	U	
53469-21-9	Aroclor 1242	ND	0.071	0.061	U	
12672-29-6	Aroclor 1248	ND	0.071	0.061	U	
11097-69-1	Aroclor 1254	0.066	0.071	0.061	J	J
11096-82-5	Aroclor 1260	0.064	0.071	0.061	J	J
37324-23-5	Aroclor 1262	ND	0.071	0.061	U	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U	U
1336-36-3	PCBs, Total	0.131	0.071	0.061	J	J

KK 7/14/22

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: P. W. Grosser	Lab Number	: L2213494
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2213494-01	Date Collected	: 03/15/22 10:30
Client ID	: MW002	Date Received	: 03/15/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/29/22 17:03
Sample Matrix	: WATER	Date Extracted	: 03/28/22
Analytical Method	: 134,LCMSMS-ID	Dilution Factor	: 1
Lab File ID	: I17164	Analyst	: RS
Sample Amount	: 252.68 g	Instrument ID	: LCMS01
Extraction Method	: ALPHA 23528	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ng/l Results	RL	MDL	Qualifier	
375-22-4	Perfluorobutanoic Acid (PFBA)	38.8	1.98	0.404		
2706-90-3	Perfluoropentanoic Acid (PFPeA)	40.4	1.98	0.392		
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	12.9	1.98	0.235		
307-24-4	Perfluorohexanoic Acid (PFHxA)	35.3	1.98	0.324		
375-85-9	Perfluoroheptanoic Acid (PFHpA)	24.0	1.98	0.223		
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	9.77	1.98	0.372	F	J
335-67-1	Perfluorooctanoic Acid (PFOA)	94.4	1.98	0.233		
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	3.81	1.98	1.32		J
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.98	0.681	U	U
375-95-1	Perfluorononanoic Acid (PFNA)	3.92	1.98	0.309		
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	16.9	1.98	0.499		
335-76-2	Perfluorodecanoic Acid (PFDA)	7.31	1.98	0.301		
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.98	1.20	U	UJ
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	1.98	0.641	U	UJ
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	0.392	1.98	0.257	JF	J
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.98	0.970	U	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.98	0.574	U	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.98	0.795	U	UJ

KK 7/14/22

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: P. W. Grosser	Lab Number	: L2213494
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2213494-01	Date Collected	: 03/15/22 10:30
Client ID	: MW002	Date Received	: 03/15/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/29/22 17:03
Sample Matrix	: WATER	Date Extracted	: 03/28/22
Analytical Method	: 134,LCMSMS-ID	Dilution Factor	: 1
Lab File ID	: I17164	Analyst	: RS
Sample Amount	: 252.68 g	Instrument ID	: LCMS01
Extraction Method	: ALPHA 23528	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.98	0.368	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.98	0.324	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.98	0.245	U
NONE	PFOA/PFOS, Total	111	1.98	0.233	

KK 7/14/22

LDC #: 54136G2c
SDG #: L2213494
Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET
Category B

Date: 6/12/22
Page: 1 of 1
Reviewer: D
2nd Reviewer: Kw

METHOD: GC/MS 1,4-Dioxane (EPA SW846 Method 8270D-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A /D	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A /D	%RSD ≤ 20 ICV ≤ 30
IV.	Continuing calibration	D	CCV ≤ 20
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	EB= EQUIPMENT BLANK
VII.	Surrogate spikes	D	
VIII.	Matrix spike/Matrix spike duplicates	N	MS
IX.	Laboratory control samples	D	LCS/D
X.	Field duplicates	N	
XI.	Internal standards	D	
XII.	Target analyte quantitation	A	No Results <RL >MDL
XIII.	Target analyte identification	D	MI
XIV.	System performance	A	
XV.	Overall assessment of data	D	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW002	L2213494-01	Water	03/15/22
2				
3				
4				
5				
6				
7				
8				
9				

Notes:

	WG1616721-1						

LDC #: 54136G2C

VALIDATION FINDINGS CHECKLIST

Method: Semivolatiles (EPA SW 846 Method 8270 D)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20% 15/30% and relative response factors (RRF) within method criteria?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20% 30%?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 20% and relative response factors (RRF) within method criteria?	✓			
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the blanks validation findings worksheet.		✓		
VI. Field blanks				
Were field blanks were identified in this SDG?	✓			
Were target analytes detected in the field blanks?		✓		
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any percent recoveries (%R) was less than 10%, was a reanalysis performed to confirm %R ?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	

Validation Area	Yes	No	NA	Findings/Comments
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
IX. Laboratory control samples				
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XI. Internal standards				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XII. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Target analyte identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

A. Phenol	CC. Dimethylphthalate	EEE. Bis(2-ethylhexyl)phthalate	GGGG. C30-Hopane	I1. Methyl methanesulfonate
B. Bis (2-chloroethyl) ether	DD. Acenaphthylene	FFF. Di-n-octylphthalate	HHHH. 1-Methylphenanthrene	J1. Ethyl methanesulfonate
C. 2-Chlorophenol	EE. 2,6-Dinitrotoluene	GGG. Benzo(b)fluoranthene	IIII. 1,4-Dioxane	K1. o,o',o''-Triethylphosphorothioate
D. 1,3-Dichlorobenzene	FF. 3-Nitroaniline	HHH. Benzo(k)fluoranthene	JJJJ. Acetophenone	L1. n-Phenylene diamine
E. 1,4-Dichlorobenzene	GG. Acenaphthene	III. Benzo(a)pyrene	KKKK. Atrazine	M1. 1,4-Naphthoquinone
F. 1,2-Dichlorobenzene	HH. 2,4-Dinitrophenol	JJJ. Indeno(1,2,3-cd)pyrene	LLLL. Benzaldehyde	N1. N-Nitro-o-toluidine
G. 2-Methylphenol	II. 4-Nitrophenol	KKK. Dibenz(a,h)anthracene	MMMM. Caprolactam	O1. 1,3,5-Trinitrobenzene
H. 2,2'-Oxybis(1-chloropropane)	JJ. Dibenzofuran	LLL. Benzo(g,h,i)perylene	NNNN. 2,6-Dichlorophenol	P1. Pentachlorobenzene
I. 4-Methylphenol	KK. 2,4-Dinitrotoluene	MMM. Bis(2-Chloroisopropyl)ether	OOOO. 1,2-Diphenylhydrazine	Q1. 4-Aminobiphenyl
J. N-Nitroso-di-n-propylamine	LL. Diethylphthalate	NNN. Aniline	PPPP. 3-Methylphenol	R1. 2-Naphthylamine
K. Hexachloroethane	MM. 4-Chlorophenyl-phenyl ether	OOO. N-Nitrosodimethylamine	QQQQ. 3&4-Methylphenol	S1. Triphenylene
L. Nitrobenzene	NN. Fluorene	PPP. Benzoic Acid	RRRR. 4-Dimethyldibenzothiophene (4MDT)	T1. Octachlorostyrene
M. Isophorone	OO. 4-Nitroaniline	QQQ. Benzyl alcohol	SSSS. 2/3-Dimethyldibenzothiophene (4MDT)	U1. Famphur
N. 2-Nitrophenol	PP. 4,6-Dinitro-2-methylphenol	RRR. Pyridine	TTTT. 1-Methyldibenzothiophene (1MDT)	V1. 1,4-phenylenediamine
O. 2,4-Dimethylphenol	QQ. N-Nitrosodiphenylamine	SSS. Benzidine	UUUU.. 2,3,4,6-Tetrachlorophenol	W1. Methapyrilene
P. Bis(2-chloroethoxy)methane	RR. 4-Bromophenyl-phenylether	TTT. 1-Methylnaphthalene	VVVV. 1,2,4,5-Tetrachlorobenzene	X1. Pentachloroethane
Q. 2,4-Dichlorophenol	SS. Hexachlorobenzene	UUU.Benzo(b)thiophene	WWWW.. 2-Picoline	Y1. 3,3'-Dimethylbenzidine
R. 1,2,4-Trichlorobenzene	TT. Pentachlorophenol	VVV.Benzonaphthothiophene	XXXX. 3-Methylcholanthrene	Z1. o-Toluidine
S. Naphthalene	UU. Phenanthrene	WWW.Benzo(e)pyrene	YYYY. a,a-Dimethylphenethylamine	A2. 1-Naphthylamine
T. 4-Chloroaniline	VV. Anthracene	XXX. 2,6-Dimethylnaphthalene	ZZZZ. Hexachloropropene	B2. 4-Aminobiphenyl
U. Hexachlorobutadiene	WW. Carbazole	YYY. 2,3,5-Trimethylnaphthalene	A1. N-Nitrosodiethylamine	C2. 4-Nitroquinoline-1-oxide
V. 4-Chloro-3-methylphenol	XX. Di-n-butylphthalate	ZZZ. Perylene	B1. N-Nitrosodi-n-butylamine	D2. Hexachloropene
W. 2-Methylnaphthalene	YY. Fluoranthene	AAAA. Dibenzothiophene	C1. N-Nitrosomethylethylamine	E2. Bis (2-chloro-1-methylethyl) ether
X. Hexachlorocyclopentadiene	ZZ. Pyrene	BBBB. Benzo(a)fluoranthene	D1. N-Nitrosomorpholine	F2. Bifenthrin
Y. 2,4,6-Trichlorophenol	AAA. Butylbenzylphthalate	CCCC. Benzo(b)fluorene	E1. N-Nitrosopyrrolidine	G2. Cyfluthrin
Z. 2,4,5-Trichlorophenol	BBB. 3,3'-Dichlorobenzidine	DDDD. cis/trans-Decalin	F1. Phenacetin	H2. Cypermethrin
AA. 2-Chloronaphthalene	CCC. Benzo(a)anthracene	EEEE. 1,1'-Biphenyl	G1. 2-Acetylaminofluorene	I2. Permethrin (cis/trans)
BB. 2-Nitroaniline	DDD. Chrysene	FFFF. Retene	H1. Pronamide	J2. 5-Nitro-o-toluidine

LDC #: SJ136G2C

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270 D)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the target analytes identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of target analyte
C_x = Concentration of target analyte
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

#	Standard ID	Calibration Date	Target Analyte Internal Standard)	Reported RRF (50U std)	Recalculated RRF (50U std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL BNA II	12/16/21	1,4-Dioxane (1st IS)	1.274	1.274	1.258	1.258	3.75	3.75
			(2nd IS)						
			(3rd IS)						
			(4th IS)						
			(5th IS)						
			(6th IS)						
2			(1st IS)						
			(2nd IS)						
			(3rd IS)						
			(4th IS)						
			(5th IS)						
			(6th IS)						
3			(1st IS)						
			(2nd IS)						
			(3rd IS)						
			(4th IS)						
			(5th IS)						
			(6th IS)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 91136G2C

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
A_x = Area of target analyte
C_x = Concentration of target analyte
RRF = continuing calibration RRF
A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ccv	3/17/22 1824	1,4-Dioxane (1st IS)	1.258	1.299	1.299	3.3	3.3
			(2nd IS)					
			(3rd IS)					
			(4th IS)					
			(5th IS)					
			(6th IS)					
2			(1st IS)					
			(2nd IS)					
			(3rd IS)					
			(4th IS)					
			(5th IS)					
			(6th IS)					
3			(1st IS)					
			(2nd IS)					
			(3rd IS)					
			(4th IS)					
			(5th IS)					
			(6th IS)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136G2C

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270 D)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
~~Nitrobenzene-d5~~ 1,4-Dioxane -	500.0	226.058	45	45	0
2-Fluorobiphenyl 98					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					

LDC #: 31136G2C

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

$$SSC = \frac{(A_X)(C_{IS})(Fv)(Df)}{(A_{IS})(RRF)(Vs \text{ or } Ws)(\%S/100)}$$

%Recovery = (SSC/SA)*100

RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where: A_X= Area of the target analyte
A_{IS}= Area for the specific internal standard
C_{IS} = Concentration of internal standard
Fv =Final volume of extract
Df= Dilution factor
RRF= Average relative response factor of the target analyte
Ws= Initial weight of the sample
%S= Percent Solid
SSC = Spiked sample concentration
LCS = Laboratory control sample
LCSD = Laboratory control sample duplicate
Vs= Initial volume of the sample

LCS/LCSD samples: WG161672I-2/3

Compound	Spike Added (ng/kg)		Spike Concentration (ng/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol										
N-Nitroso-di-n-propylamine										
4-Chloro-3-methylphenol										
Acenaphthene										
Pentachlorophenol										
Pyrene										
1,4-Dioxane	500	500	605	598.74	121	121	120	120	1	1

LDC #: 54136Q2C

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 M)

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the target analyte to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

V_i = Volume of extract injected in microliters (ul)

V_t = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example: #1

Sample I.D. ~~WG116721-2 (lcs)~~ FJ 1,4-Dioxane

Conc. = $\frac{965\ (500)\ (2.5)\ (1000)}{13584\ (1.258)\ (260)}$

= 271.49 ng/L

#	Sample ID	Target Analyte	Reported Concentration (ng/L)	Calculated Concentration (ng/L)	Qualification
	~~lcs~~ #1	1,4-Dioxane	~~650 605D~~ 271	271.49	

LDC #: 54136G3a

SDG #: L2213494

Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET

Category B

Date: 6/12/12

Page: 1 of 1

Reviewer: B

2nd Reviewer: KKR

METHOD: GC Organochlorine Pesticides (EPA SW-846 Method 8081B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	GC Instrument Performance Check	A	
III.	Initial calibration/ICV	A / A	%D/%RSD ≤ 20, r² ICV ≤ 20
IV.	Continuing calibration	SW	CCV ≤ 20%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	EB = EQUIPMENT BLANK
VII.	Surrogate spikes 1/3	SW/A	
VIII.	Matrix spike/Matrix spike duplicates	N	~~L2212899-02 MS/MSD~~ PT ⊂>
IX.	Laboratory control samples	A	LCS/D
X.	Field duplicates	N	
XI.	Target analyte quantitation	A	No Result < RL > MDL
XII.	Target analyte identification	A	
XIII.	System Performance	A	
XIV	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW002	L2213494-01	Water	03/15/22
2				
3				
4				
5				
6				
7				
8				
9				
10				

Notes: 7626

	WG1616582-1 Blank						

LDC #: 54136Q3a

VALIDATION FINDINGS CHECKLIST

Method: GC HPLC 8081B PESTICIDES

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?	✓			
Were the RT windows properly established?				
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
III. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%?		✓		
Were all the retention times within the acceptance windows?	✓			
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
V. Field Blanks				
Were field blanks identified in this SDG?	✓			
Were target analytes detected in the field blanks?		✓		
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓	✓		
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?		✓		
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed per analytical or extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			

Validation Area	Yes	No	NA	Findings/Comments
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
X. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target analyte identification				
Were the retention times of reported detects within the RT windows?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:_____

LDC #: 54136G39

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 7
Reviewer: FT

METHOD: / __ GC __ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
What type of continuing calibration calculation was performed? ___%D or ___%R
Y N N/A Were continuing calibration standards analyzed at the required frequencies?
Y N N/A Did the continuing calibration standards meet the %D / %R validation criteria of ≤20.0% / 80-120%?
Level IV Only
Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Detector/ Column	Compound	%D (Limit ≤ 20.0)	RT (limit)	Associated Samples	Qualifications
	3/21/22 1043	CCV - PEST 11	CLP2	G - G	27.1		All - MB	J/UJ/A ND
				I	28.9			
				S	22.3			
				J	27.9			
				H	26.6			
				K	20.2			
				O	31.3			
				P	28.0			
				N	21.7		↓	↓
	3/21/22 1001	CCV - PEST 20		P	37.5		WG1617626-1 Blk n/c	J/UJ/A
				A	32.7		↓	↓
				P	32.9			

LDC #: 54136g3a

VALIDATION FINDINDS WORKSHEET
Surrogate Recovery

Page: 1 of 1
Reviewer: FT

METHOD: ✓ GC __ HPLC

Are surrogates required by the method? Yes____ or No____.

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were surrogates spiked into all samples and blanks?

Y N N/A Did all surrogate recoveries (%R) meet the QC limits?

#	Sample ID	Detector/ Column	Surrogate Compound	%R (Limits)	Qualifications
	1	CLP1	O	25 (30-150)	J/UJ/P ND
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C`	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 91136G32

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (5.0 std)	Recalculated CF (5.67 std)	Reported CF (initial)	Recalculated CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL PEST11	1/28/22	Beta-BHC cal1	0.673	0.623	0.703	0.703	4.78	4.78
			4,4'-DDT	0.974	0.974	1.048	1.048	10.57	10.57
			↓ cal2	0.575	0.575	0.562	0.562	7.85	7.85
			↓	0.777	0.777	0.843	0.843	13.01	13.01
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136G3a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF -CF)/ave.CF

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ICAL)/ CCV Conc.	Reported CF/ Conc. CCV	Recalculated CF/ Conc. CCV	Reported %D	Recalculated %D
1	ccv PEST 11	3/21/22	Beta BHC CCV1	0.703	0.651	0.651	7.4	7.4
			4,4'-DDT	1.048	1.033	10.33	1.4	1.4
			↓ CCV2	0.562	0.612	0.612	8.9	8.9
				0.843	1.107	1.107	31.3	31.3
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136G3a

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX	cap1	50.0	21.078	42	42	0
TCMX	2		27.189	54	54	
DCB	cap1		12.602	25	25	
DCB	2		15.202	30	30	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 54136G 3a

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: __ GC __ HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

%Recovery = 100 * (SSC/SA)
RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where SSC = Spiked sample concentration
LCS = Laboratory Control Sample
SA = Spike added
LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: w9161762 6 2/3

Compound	Spike Added (ug/L)		Spike Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
gamma BHC	50	50	30.805	28.788	62	62	58	58	7	7
4,4'-DDT	↓	↓	37.482	34.43	75	75	72	72	4	8

Comments: _____

LDC #: 54136G3a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: ✓ GC ___ HPLC

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the target analyte to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the target analyte In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. WG161762G-2 4,4'-DDT

Concentration = $\frac{173.5 \times 10^6 \ (25.0) \ (1)}{111.1 \times 10^6 \ (1.04) \ (140)}$ =

0.2678 ug/L

#	Sample ID	Target analyte	Reported Concentrations (ug/L)	Recalculated Results Concentrations (ug/L)	Qualifications
	LCS	4,4'-DDT	0.268	0.2678	

Comments: _____

LDC #: 54136G3b

SDG #: L2213494

Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET

Category B

Date: 6/12/22

Page: 1 of 1

Reviewer: B

2nd Reviewer: MK

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	Initial calibration/ICV	A/A	%D/ICV ≤20
III.	Continuing calibration	A	CCV ≤20
IV.	Laboratory Blanks	A	
V.	Field blanks	ND	EB= EQUIPMENT Blank 2
VI.	Surrogate spikes 13	A/A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS ID
IX.	Field duplicates	N	
X.	Target analyte quantitation	A	Results <RL >MDL = J
XI.	Target analyte identification	A	
XII.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW002	L2213494-01	Water	03/15/22
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

Notes:

	WG1621002-1 Blank						

LDC #: 54136 G3b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT

Method: ✓GC __HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?			✓	
Were the RT windows properly established?	✓			
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
III. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
Were all the retention times within the acceptance windows?	✓			
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
V. Field Blanks				
Were field blanks identified in this SDG?	✓			
Were target analytes detected in the field blanks?		✓		
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed per analytical or extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			

Validation Area	Yes	No	NA	Findings/Comments
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
X. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target analyte identification				
Were the retention times of reported detects within the RT windows?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:_____

LDC #: 54136935

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (100 std)	Recalculated CF (100 std)	Reported CF (initial)	Recalculated CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL PEST 12	10/20/21	1260-1 cup1	0.057	0.057	0.057	0.057	11.05	11.05
			1260-1 cup2	0.063	0.063	0.065	0.065	10.94	10.94
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136G36

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. CF -CF)/ave.CF

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of target analyte
C = Concentration of target analyte

#	Standard ID	Calibration Date	Target Analyte	Average CF(Ical)/ CCV Conc.	Reported CF/ Conc. CCV	Recalculated CF/ Conc. CCV	Reported %D	Recalculated %D
1	ccv	3/30/22 0909	1260-1 cup1	0.057	0.064	0.064	12.3	12.3
			1260-1 cup2	0.065	0.072	0.072	10.8	10.8
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 54136G3b

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX	CLP1	20.0	11.284	56	56	0
TCMX	2	↓	11.090	55	55	↓
DCB	CLP1	↓	6.781	34	34	↓
DCB	2	↓	6.959	35	35	↓

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C`	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 54136G3b

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: __ GC __ HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

%Recovery = 100 * (SSC/SA)
RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where SSC = Spiked sample concentration
LCS = Laboratory Control Sample
SA = Spike added
LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: WG162002 - 2/3

Compound	Spike Added (ug/L)		Spike Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
PCB1260	250.0U	250.0U	208.268	200.489	83	83	80	80	4	4
	250.0U									

Comments: _____

LDC #: 54136 93b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: ___of___
Reviewer: FT

METHOD: ✓ GC __ HPLC _ GCMS

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target analytes within 10% of the reported results?

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. #1 Compound Name Aroclor 1260

Concentration = 9.0 (1) / (140) = 0.06428

1/140

#	Sample ID	Compound	Reported Concentrations (ug/L)	Recalculated Results Concentrations (ug/L)	Qualifications
	#1	Aroclor 1260	0.064	0.064	
	1260-3 = 3257243 (25.0) / 128.7 X10^6 (0.05593)		= 11.313	1260-3 =	11.313
				4 =	5.67
				5 =	10.01
				Ave	9.00

Comments: _____

SAMPCLC_r1.wpd

LDC #: 54136G96 **VALIDATION COMPLETENESS WORKSHEET** Date: 06/27/22
SDG #: L2213494 Category B Page: 1 of 1
Laboratory: Alpha Analytical, Inc., Westborough, MA Reviewer: JVG
2nd Reviewer: RLL

METHOD: LC/MS Perfluoroalkyl & Polyfluoroalkyl Substances (EPA Method 537M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	LC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/SW	r^2 $\pm V \leq 30/50\%$ $ICV \leq 30\%$
IV.	Continuing calibration/ISC	SW	$\%D \leq 30\%$ $ISC \leq 50\%$
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	EB = EQUIPMENT BLANK (Same SDG) FB = FIELD BLANK
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	N	
X.	Labeled Compounds	SW	
VI.	Target analyte quantitation	A	Results < RL > MDL = J dets
XII.	Target analyte identification	SW	
XIII.	System performance	A	
XIV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW002	L2213494-01	Water	03/15/22
2				
3				
4				
5				
6				
7				
8				
9				
10				

Notes:

	WG1620482 / BLANK						

Method: LC/MS PFAS (EPA Method 537M)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	√			
Was cooler temperature criteria met?	√			
II. LC/MS Instrument performance check				
Were the instrument performance reviewed and found to be within the validation criteria?	√			
III. Initial calibration and Initial Calibration Verification				
Did the laboratory perform a 5 point calibration prior to sample analysis?	√			
Were all percent relative standard deviations (%RSD) ≤ 20%?			√	
Was a curve fit used for evaluation? If yes, did the initial calibration meet the coefficient of determination (r^2) criteria of ≥ 0.990?	√			
Were all analytes within 70-130% or percent differences (%D) ≤30% of their true value for each calibration standard except the lowest point (50-150%)?	√			
Was the signal to noise (S/N) ratio for all compounds within the validation criteria?	√			
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	√			
Were all percent differences (%D) ≤ 30%?		✓		
IV. Continuing calibration and Instrument Sensitivity Check				
Was a continuing calibration analyzed prior to sample analysis, after every 10 samples and at the end of the analytical sequence?	√			
Were all percent differences (%D) of the continuing calibration ≤ 30%?	√			
Were all the retention times within the acceptance windows?	√			
Was the signal to noise (S/N) ratio for all compounds within the validation criteria?	√			
Were all percent differences (%D) of the Instrument Sensitivity Check ≤ 50%?		✓		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	√			
Was a laboratory blank analyzed for each matrix and concentration?	√			
Was there contamination in the laboratory blanks?		√		
VI. Field blanks				
Were field blanks identified in this SDG?	√			
Were target compounds detected in the field blanks?		√		
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?		√		
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			√	

Validation Area	Yes	No	NA	Findings/Comments
VIII. Laboratory control samples				
Was an LCS analyzed per extraction batch for this SDG?	√			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	√			
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target compounds detected in the field duplicates?			✓	
X. Labeled compounds				
Were labeled compound percent recoveries (%R) within the QC limits?		✓		
XI. Compound quantitation				
Did the laboratory reporting limits (i.e. DL, LOD, LOQ) meet the QAPP?	√			
Did reported results include both branched and linear isomers?	√			
Were the correct ion transition, labeled compound and relative response factor (RRF) used to quantitate the compound?	√			
Were compound quantitation and reporting limits adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	√			
XII. Target compound identification				
Was the signal to noise (S/N) ratio for all compounds within the validation criteria?	√			
Were two transitions and the ion transition ratio per analyte monitored and documented with the exception of PFBA and PFPeA?	√			
Were ion ratios within QC limits?		✓		
XIII. System performance				
System performance was found to be acceptable.	√			
XIV. Overall assessment of Data				
Overall assessment of data was found to be acceptable.	√			

TARGET COMPOUND WORKSHEET

METHOD: PFAS

A. Perfluorobutanoic acid (PFBA)	X. 8:2 Fluorotelomer sulfonate (8:2 FTS)	
B. Perfluoropentanoic acis (PFPeA)	Y. 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	
C. Perfluorohexanoic acid (PFHxA)	Z. HFPO-DA (GenX)	
D. Perfluoroheptanoic acid (PFHpA)	AA. 9Cl-PF3ONS	(F-53B Major)
E. Perfluorooctanoic acid (PFOA)	BB. 11Cl-PF3OUdS	(F-53B Minor)
F. Perfluorononanoic acid (PFNA)	CC. Hexafluoropropylene oxide dimer acid (HFPO-DA)	
G. Perfluorodecanoic acid (PFDA)	DD. 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	
H. Perfluoroundecanoic acid (PFUnDA)	EE. 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	
I. Perfluorododecanoic acid (PFDoA)	FF. 4:2 Fluorotelomersulfonic acid	
J. Perfluorotridecanoic acid (PFTrDA)	GG. 6:2 Fluorotelomersulfonic acid	
K. Perfluorotetradecanoic acid (PFTeDA)	HH. 8:2 Fluorotelomersulfonic acid	
L. Perfluorobutanesulfonic acid (PFBS)	II. 1H,1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)	
M. Perfluoropentanesulfonic acid (PFPeS)	JJ. 1H,1H, 2H, 2H- Perfluorooctanesulfonic acid (6:2 FTS)	
N. Perfluorohexanesulfonic acid (PFHxS)	KK. 1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	
O. Perfluoroheptanesulfonic acid (PFHpS)	LL. N-Methylperfluorooctanesulfonamide (NMeFOSA)	
P. Perfluorooctanesulfonic acid (PFOS)	MM. 3:3 Fluorotelomer carboxylate (3:3 FTCA)	
Q. Perfluorononanesulfonic acid (PFNS)	NN. 5:3 Fluorotelomer carboxylate (5:3 FTCA)	
R. Perfluorodecanesulfonic acid (PFDS)	OO. 7:3 Fluorotelomer carboxylate (7:3 FTCA)	
S. Perfluorooctanesulfonamide (PFOSA)	PP. Perfluorooctadecanoic acid (PFODA)	
T. N-Methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)		
U. N-Ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)		
V. 4:2 Fluorotelomer sulfonate (4:2 FTS)		
W. 6:2 Fluorotelomer sulfonate (6:2 FTS)		

LDC #: 54136G96

VALIDATION FINDINGS WORKSHEET
Initial Calibration Verification

Reviewer: JVG

METHOD: LC/MS PFOS/PFOAs (EPA Method 537M)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Was an initial calibration verification standard analyzed after calibration for each instrument?

Y (N) N/A Were all initial calibration verification percent differences (%D) ≤30%?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤30%)	Associated Samples	Qualifications
	03/07/22	I15756	T	32.7	All (ND)	J/UJ/A
			U	32.4	↓	↓

LDC #: 54136G96

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Reviewer: JVG

METHOD: LC/MS PFAs (EPA Method 537M)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a continuing calibration standard analyzed after every 10 injections for each instrument?

Y (N) N/A Were all continuing calibration percent differences (%D) ≤30 %?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤30.0%)	Finding RRF (Limit:)	Associated Samples	Qualifications
	03/29/22	I17161	br-T	58 (≤ 50%)		All (ND)	J/UJ/A
		(ISC)	br-U	56 ↓		↓	↓

LDC #: 54136G96

VALIDATION FINDINGS WORKSHEET
Labeled Compounds

Reviewer: JVG

METHOD: LC/MS PFAS (EPA 537M)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Were all labeled compound recoveries within the QC criteria?

#	Sample ID	Labeled Compound	Limits (50-150%/25-150%*)	Qualifications
	1 (Det)	M2-JJ	388 (50-150?)	J/UJ/P (JJ)
	(ND)	M2-Kk	433 ↓	↓ (Kk)

*Poor performers: PFBA PFPeA 6FTS 8FTS 4FTS PFOSA

LDC#: 54136G96

VALIDATION FINDINGS WORKSHEET
Target Analyte Identification

Reviewer: JVG

METHOD: LC/MS (EPA Method 537M)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was the signal to noise (S/N) ratio for all compounds within the validation criteria?
Y N N/A Were two transitions and the ion transition ratio per analyte monitored and documented with the exception of PFBA and PFPeA?
Y N N/A Were ion ratios within QC limits?

#	Date	Sample ID	Compound	Finding Ion ratio (Limit)	Qualifications
		1		Results flagged "F" by the laboratory due to ion ratio outside QC limits (value is EMPC)	Jdets/A

Comments: _____

LDC#: 54136G96

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer:__JVG__

METHOD: LC/MS PFCs (EPA Method 537Mod)

Calibration Date	Instrument	Compound	Standard	(Y) Area ratio	(X) Conc ratio	CF
3/7/2022	LCMS01	L-PFOA	0.5	0.06491	0.050	1.298
			1	0.11872	0.100	1.187
		M8PFOA	2.5	0.22422	0.200	1.121
			5	0.52471	0.500	1.049
			10	1.13520	1.000	1.135
			25	2.55797	2.500	1.023
			50	5.71872	5.000	1.144
			100	12.21150	10.000	1.221
			250	30.18564	25.000	1.207
					Ave	1.137

Regression Output	Calculated	Reported
Constant	0.000000	0.000000
R Squared	0.998183	0.998136
X Coefficient(s)	1.21205305	1.189210
Correlation Coefficient	0.999091	
Coefficient of Determination (r^2)	0.998183	0.998136

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Method: PFCs (EPA Method 537M)

Date	Instrument	Compound	Standards	(Y) Response Ratio	(X) Conc. Ratio	(X^2) Conc. Ratio
3/7/2022	LCMS01	L-PFOS (M8PFOS)	0.394	0.0404	0.04	0.0016
			0.788	0.0701	0.08	0.0062
			1.576	0.1386	0.16	0.0248
			3.938	0.3310	0.39	0.1551
			7.880	0.7280	0.79	0.6209
			19.698	1.6311	1.97	3.8799
			39.400	3.8978	3.94	15.5236
			78.813	7.6881	7.88	62.1141
			197.000	18.7558	19.70	388.0900

Regression Output

			Reported
Constant	c =	0.0000	0.0000
R Squared		0.9997743	0.998483
X Coefficient(s)	a =	9.75720E-01	9.42137E-01
	b =	-1.1714E-03	7.55257E-05
Correlation Coefficient		0.999887	
Coefficient of Determination (r^2)	r^ 2	0.999774	

LDC #: 54136G96

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: JVG

METHOD: LC/MS PFAS (EPA Method 537)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA Where: SSC = Spike concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC) LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: WG1620487-2 LCS

Compound	Spike Added (ng/L)		Spike Concentration (ng/L)		LCS		LCSD		LCS/LCSD	
					Percent Recovery		Percent Recovery		RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
PFOA	40	NA	38.6	NA	96	96				
PFOS	37.1	↓	39.4	↓	106	106				

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #:_____

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: JVG

METHOD: LC/MS PFAS (EPA Method 537M)

The concentration of the sample was calculated for the compound identified below using the following calculation:

$$\text{Concentration} = \frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

V_i = Volume of extract injected in microliters (ul)

V_t = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. 1 , PFOA :

L-PFOA

Conc. $= \frac{\left[\left(\frac{179349}{66891}\right)(10)\right]}{(1.18921)} = 22.546$

PFOA total $= 22.546 + 1.321 = 23.867$

final conc. $= \frac{(23.867)(1\text{mL})}{(252.68\text{g})} = 94.45$ ng/L

#	Sample ID	Compound	Reported Concentration (ng/L)	Calculated Concentration (ng/L)	Qualification
	1	PFOA	94.4	94.4	---

Site: 737 4th Ave, Brooklyn, NY
Laboratory: Alpha Analytical, Inc., Westborough, MA
Report No.: L2213494
Reviewer: An Le and Kevin Kha/Laboratory Data Consultants for P.W. Grosser Consulting
Date: July 7, 2022

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
MW002	L2213494-01	Metals
MW002MS	L2213494-01MS	Metals
MW002DUP	L2213494-01DUP	Metals

Associated QC Samples(s):
Field/Trip Blanks: Equipment Blank
Field Duplicate pair: None Associated

The above-listed water sample was collected on March 15, 2022 and was analyzed for metals by SW-846 methods 6020B/7470A. The data validation was performed in accordance with the USEPA Region 2 *Standard Operating Procedure for the Evaluation of Metals for the Contract Laboratory Program,* SOP HW-3b/c, Revision 1 (September 2016), and the USEPA *Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review,* EPA 542-R-20-006 (November 2020), modified as necessary to accommodate the non-CLP methodologies used.

The inorganic data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness
- Holding Times and Sample Preservation
- Instrument Calibration
- Contract Required Quantitation Limit (CRQL) Standard Recoveries
- Blank Analysis Results
- Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Duplicate Results
- Laboratory Control Sample (LCS)
- Serial Dilution Results
- Internal Standards
- Field Duplicate Results
- Detection Limits Results
- Sample Quantitation Results

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

ICP-MS Tunes

All criteria were met.

Instrument Calibration

All criteria were met.

CRQL Standard Recoveries

All criteria were met.

Blank Results

Analytes were detected below the reporting limits in the laboratory blank samples. The following table summarizes the contamination and validation actions taken.

Blank ID	Analyte	Level Detected	Action Level	Associated Samples
ICB/CCB	Iron	35.0 ug/L	RL	MW002
	Thallium	0.393 ug/L	RL	

Blank Actions for analytes detected below the reporting limit (RL).
If the sample result is < RL, report the result as nondetect (U) at the RL.
If the sample result is > RL or nondetect, no action is required.
Blank Actions for analytes detected above the reporting limit or RL.
If the sample result is < RL and <action level; report the result as nondetect (U) at the RL.
If the sample result is > RL and < action level; report the result as nondetect (U) at the reported value.
If the sample result is > action level or nondetect, no action is required.

Qualified sample results are listed in the table below.

Sample	Analyte	Reported Level	Validation Action
MW002	Thallium	0.00082 mg/L	0.0010U mg/L

These results can be used for project objectives as nondetect (U) which may have a minor impact on the data usability.

Contamination was detected in the equipment blank sample Equipment Blank for the metals analyses. The following table summarizes the contamination greater than the reporting limit and validation actions taken.

Blank ID	Analyte	Level Detected	Action Level	Associated Samples
Equipment Blank	Aluminum	0.00850 mg/L	RL	MW002
	Barium	0.00177 mg/L	RL	
	Chromium	0.00022 mg/L	RL	
	Sodium	0.225 mg/L	RL	

Blank Actions for analytes detected above the reporting limit (RL).
If the sample result is < RL and < action level; report the result as nondetect (U) at the RL.
If the sample result is > RL and < action level; report the result as nondetect (U) at the reported value.
If the sample result is > action level or nondetect, no action is required.

No samples were qualified since the associated sample results were nondetect.

ICP ICS Results

Analytes were within control limits in the ICSA and ICSAB analyses.

MS/MSD Results

MS analyses were performed on sample MW002 for metals analyses. All criteria were met.

Laboratory Duplicate Results

Laboratory duplicates were performed on sample MW002 for metals analyses. All criteria were met.

LCS Results

All criteria were met.

Serial Dilution Results

A serial dilution analysis was not associated with this sample set. Validation action was not required on this basis.

Internal Standards

All criteria were met.

Field Duplicate Results

A field duplicate pair was not associated with this sample set. Validation action was not required on this basis.

Detection Limits Results

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the metals analyses. These results were estimated (J) by the laboratory.

Due to high target analyte levels or difficult sample matrix, select samples were analyzed at dilutions. The following table lists the sample dilutions which were performed and the results reported. RLs were elevated accordingly.

Sample	Metals Analyses Reported
MW002	5-fold dilution due to high target analyte level for manganese

Sample Quantitation Results

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Form 1
METALS

Client	: P. W. Grosser	Lab Number	: L2213494
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2213494-01	Date Collected	: 03/15/22 10:30
Client ID	: MW002	Date Received	: 03/15/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/23/22 15:00
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: SV
Lab File ID	: WG1618818.pdf	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 03/22/22

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7429-90-5	Aluminum, Total	50.9	0.0100	0.00327		
7440-36-0	Antimony, Total	0.00070	0.00400	0.00042	J	J
7440-38-2	Arsenic, Total	0.01455	0.00050	0.00016		
7440-39-3	Barium, Total	1.066	0.00050	0.00017		
7440-41-7	Beryllium, Total	0.00884	0.00050	0.00010		
7440-43-9	Cadmium, Total	0.00609	0.00020	0.00005		
7440-70-2	Calcium, Total	68.7	0.100	0.0394		
7440-47-3	Chromium, Total	0.3436	0.00100	0.00017		
7440-48-4	Cobalt, Total	0.08897	0.00050	0.00016		
7440-50-8	Copper, Total	0.3577	0.00100	0.00038		
7439-89-6	Iron, Total	112.	0.0500	0.0191		
7439-92-1	Lead, Total	0.7347	0.00100	0.00034		
7439-95-4	Magnesium, Total	50.1	0.0700	0.0242		
7440-02-0	Nickel, Total	0.2810	0.00200	0.00055		
7440-09-7	Potassium, Total	38.8	0.100	0.0309		
7782-49-2	Selenium, Total	0.0175	0.00500	0.00173		
7440-22-4	Silver, Total	0.00052	0.00040	0.00016		
7440-23-5	Sodium, Total	90.5	0.100	0.0293		
7440-28-0	Thallium, Total	0.00082	0.00100	0.00014	J	0.000100 4
7440-62-2	Vanadium, Total	0.1116	0.00500	0.00157		
7440-66-6	Zinc, Total	1.104	0.01000	0.00341		

KK 7/14/22

Form 1
METALS

Client	: P. W. Grosser	Lab Number	: L2213494
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2213494-01	Date Collected	: 03/15/22 10:30
Client ID	: MW002	Date Received	: 03/15/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 03/23/22 16:07
Sample Matrix	: WATER	Dilution Factor	: 5
Analytical Method	: 1,6020B	Analyst	: SV
Lab File ID	: WG1618818.pdf	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 03/22/22

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-96-5	Manganese, Total	14.62	0.00500	0.00220	

KR 7/14/22

Form 1
METALS

Client	: P. W. Grosser	Lab Number	: L2213494
Project Name	: TOT2101	Project Number	: TOT2101
Lab ID	: L2213494-01	Date Collected	: 03/15/22 10:30
Client ID	: MW002	Date Received	: 03/15/22
Sample Location	: 737 4TH AVE, BROOKLYN, NY	Date Analyzed	: 04/01/22 13:12
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,7470A	Analyst	: DMB
Lab File ID	: WG1622267.pdf	Instrument ID	: NIC1
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 7470A	Date Digested	: 03/22/22

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.00149	0.00020	0.00009	

KK 7/14/22

LDC #: 54136G4a
SDG #: L2213494
Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET
Category B

Date: 7/5/22
Page: 1 of 1
Reviewer: ATV
2nd Reviewer: [illegible]

METHOD: Metals (EPA SW-846 Method 6020B/7470A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	A	
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	EB = Equipment Blank
VII.	Matrix Spike/Matrix Spike Duplicates	A	2
VIII.	Duplicate sample analysis	A	3
IX.	Serial Dilution	N	
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	N	
XII.	Internal Standard (ICP-MS)	A	
XIII.	Target Analyte Quantitation	A	MDL < sample < RL : Jdet
XIV	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	MW002 (Mn 5X high analyte)	L2213494-01	Water	03/15/22
2	MS	L2213494-DLMS	↓	↓
3	DUP	DUP	↓	↓
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				

Notes:

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
I. Technical holding times				
Were all technical holding times met?	✓			
Were all water samples preserved to a pH of <2.	✓			
II. ICP-MS Tune				
Were mass resolutions within 0.1 amu for all isotopes in the tuning solution?	✓			
Were %RSDs of isoptoes in the tuning solution ≤5%?	✓			
III. Calibration				
Were all instruments calibrated daily?	✓			
Were the proper standards used?	✓			
Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits?	✓			
Were the low level standard checks within 70-130%?			✓	not reported
Were all initial calibration correlation coefficients within limits as specifed by the method?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks?		✓		
Was there contamination in the initial and continuing calibration blanks?	✓			
V. Interference Check Sample				
Were the interference check samples performed daily?	✓			
Were the AB solution recoveries within 80-120%?	✓			
VI. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)	✓			
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?	✓			
VII. Laboratory Control Samples				
SDG?	✓			

Were the LCS recoveries and RPDs (if applicable) within QC limits?	✓			
METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
VIII. Internal Standards				
Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits?	✓			
If the recoveries were outside the limits, was a reanalysis performed?			✓	
IX. Serial Dilution				
Were all percent differences <10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
X. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample dilutions?	✓			
Were all soil samples dry weight corrected?			✓	
XI. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	✓			
XII. Field Duplicates				
Were field duplicates identifed in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XIII. Field Blanks				
Were field blanks identified in this SDG?	✓			
Were target analytes detected in the field blanks?	✓			

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VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: ATL

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1	W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
QC		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
2,3	W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___

Comments: Mercury by CVAA if performed

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VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: ATL

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: NA
Sample Concentration units, unless otherwise noted: mg/L
Associated Samples: 1

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (mg/L)	Maximum ICB/CCB[a] (ug/L)	Action Level									
Fe			35.0										
Tl			0.393		0.00082/0.0010								

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 54136G4a

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: ATL

METHOD: Trace Metals (EPA SW846 6010/6020/7000)

Blank units: mg/L **Associated sample units:** mg/L
Sampling date: 03/15/22 Soil factor applied _____
Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: 1

Analyte	Blank ID	Sample Identification									
	Equipment Blank	Action Limit									
Al	0.00850										
Ba	0.00177										
Cr	0.00022										
Na	0.225										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

LDC #: 54136G4a

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: ATV

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found / True x 100 Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
	ICP (Initial calibration)						
ICV	ICP/MS (Initial calibration)	Pb	47.497	50.000	95	95	Y
ICV	CVAA (Initial calibration)	Hg	0.003121	0.00300	104	104	Y
	ICP (Continuing calibration)						
CCV	ICP/MS (Continuing calibration) 3/23 @ 16:12	Mn	63.574	60.000	106	106	Y
CCV	CVAA (Continuing calibration) 4/1 @ 13:39	Hg	0.004989	0.00500	100	100	Y

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
	Mass Axis	238.00	238.0187	± 0.1 AMU	NA	Y
	%RSD	7.00	63594	≤ 5% RSD	1.1	Y

Comments:

LDC #: 54136G4a

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: ATV

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	mg/L Found / S / I (units)	mg/L True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSA	ICP interference check	K	19176.351 mg/L	20000 mg/L	96	96	Y
LCS	Laboratory control sample	Ag	0.046555	0.0500	93	93	Y
2	Matrix spike	Hg	(SSR-SR) 0.004875	0.005	98	98	Y
3	Duplicate	Hg	0.001595	0.001499	6	6	Y
	Post digestion spike						
	ICP serial dilution						

Comments: _____

LDC #: 54136G4a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: ATL

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y N N/A Are all detection limits below the CRDL?

Detected analyte results for Hg were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation:

$1.499 \times 1/1000 = 0.001499$

#	Sample ID	Analyte	Reported Concentration (mg/L)	Calculated Concentration (mg/L)	Acceptable (Y/N)
	1	Ca	68.7	68.725	Y
	1	Hg	0.00149	0.001499	Y

Note: _____

APPENDIX H

FISH AND WILDLIFE RESOURCES IMPACT ANALYSIS

DECISION KEY

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Appendix 3C Fish and Wildlife Resources Impact Analysis Decision Key	If YES Go to:	If NO Go to:
1. Is the site or area of concern a discharge or spill event?	13	2
2. Is the site or area of concern a point source of contamination to the groundwater which will be prevented from discharging to surface water? Soil contamination is not widespread, or if widespread, is confined under buildings and paved areas.	13	3
3. Is the site and all adjacent property a developed area with buildings, paved surfaces and little or no vegetation?	4	9
4. Does the site contain habitat of an endangered, threatened or special concern species?	Section 3.10.1	5
5. Has the contamination gone off-site?	6	14
6. Is there any discharge or erosion of contamination to surface water or the potential for discharge or erosion of contamination?	7	14
7. Are the site contaminants PCBs, pesticides or other persistent, bioaccumulable substances?	Section 3.10.1	8
8. Does contamination exist at concentrations that could exceed ecological impact SCGs or be toxic to aquatic life if discharged to surface water?	Section 3.10.1	14
9. Does the site or any adjacent or downgradient property contain any of the following resources? i. Any endangered, threatened or special concern species or rare plants or their habitat ii. Any DEC designated significant habitats or rare NYS Ecological Communities iii. Tidal or freshwater wetlands iv. Stream, creek or river v. Pond, lake, lagoon vi. Drainage ditch or channel vii. Other surface water feature viii. Other marine or freshwater habitat ix. Forest x. Grassland or grassy field xi. Parkland or woodland xii. Shrubby area xiii. Urban wildlife habitat xiv. Other terrestrial habitat	11	10
10. Is the lack of resources due to the contamination?	3.10.1	14
11. Is the contamination a localized source which has not migrated and will not migrate from the source to impact any on-site or off-site resources?	14	12
12. Does the site have widespread surface soil contamination that is not confined under and around buildings or paved areas?	Section 3.10.1	12
13. Does the contamination at the site or area of concern have the potential to migrate to, erode into or otherwise impact any on-site or off-site habitat of endangered, threatened or special concern species or other fish and wildlife resource? (See #9 for list of potential resources. Contact DEC for information regarding endangered species.)	Section 3.10.1	14
14. No Fish and Wildlife Resources Impact Analysis needed.		