

18 July 2023

Steven Wu
New York State Department of Environmental Conservation
47-40 21st Street
Long Island City, NY 11101

**Re: Remedial Investigation Report Addendum
12096 Flatlands Avenue
Brooklyn, New York
Langan Project No. 100688802
BCP Site No. C224290**

Dear Mr. Wu:

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) prepared this Remedial Investigation Report (RIR) Addendum on behalf of Innovative Urban Living, LLC (the Volunteer) for the property located 12096 Flatlands Avenue in the East New York neighborhood of Brooklyn, New York (the Site). The Site will be remediated pursuant to a Brownfield Cleanup Agreement with the New York State Department of Environmental Conservation (NYSDEC) and under the Brownfield Cleanup Program (BCP Site No. C224290). This RIR Addendum summarizes the results of supplemental soil sampling conducted at the Site in April 2023 and supplements data obtained during the Remedial Investigation (RI) conducted at the site in April 2021. The supplemental investigation was performed to further define the extent of remedial excavation. The supplemental investigation was conducted in accordance with the proposed sampling plan that was presented via email to the NYSDEC on 31 March 2023 and approved by the NYSDEC on 13 April 2023. The information obtained during the supplemental investigation will be used to update and revise the remedial action presented in the Draft Remedial Action Work Plan (RAWP).

SITE BACKGROUND

The 1.572-acre Site located on the south side of Flatlands Avenue in Brooklyn, New York, is designated as New York City Tax Block 4434, Lot 10. The Site consists of a vacant gravel lot used for surplus parking for the adjacent Christian Cultural Center (CCC) building, located to the west of the Site.

The Site is bound to the north by Flatlands Avenue (formerly Fairfield Avenue prior to 1967) followed by a gasoline filling station, automotive repair facility, carwash, and Sheffield Avenue. The Site is bound to the east by Pennsylvania Avenue followed by a vacant landscaped lot and the northern courtyard of a twenty-story residential building (part of the Starrett City Complex), to the south by a twelve-story multi-family residential building, and to the west by the western extents of the gravel lot currently used for surplus parking by the CCC.

According to Langan’s review of previous environmental assessments and investigation reports prepared for the Site, as discussed in Section 4.0, historical site use and features include a former gasoline filling station, former operations for automotive dismantling/wrecking, and historical filling during the early 1900’s using ash and residue from a city solid waste incinerator.

Historical uses of adjacent and nearby properties include gasoline filling stations and automotive repair to the north between 1950 and 2007 and automotive junk yards adjacent to the west from 1967 through 2001. A site location map is provided as Figure 1.

Langan conducted an RI between 12 and 26 April 2021. The Remedial Investigation Report (RIR) was submitted to NYSDEC on 14 January 2022 and approved by the NYSDEC on 1 February 2022.

SUPPLEMENTAL REMEDIAL INVESTIGATION

The Supplemental Remedial Investigation (SRI) was completed on 19 April 2023 to further define the extent of remedial excavation necessary to meet Track 1 Unrestricted Use Soil Cleanup Objectives (SCOs). The SRI was conducted in accordance with the process and requirements identified in NYSDEC “Division of Environmental Remediation (DER)-10: Technical Guidance for Site Investigation and Remediation” (May 2010), the NYSDEC-approved Remedial Investigation Work Plan dated 19 May 2020, and the 31 March 2023 Proposed Sample Location Plan. The scope of work for the SRI consisted of the advancement of eight soil borings (LSB-15A through LSB-20A, LSB-24A, and LSB-27A) at locations corresponding to borings previously completed during the 2021 RI and collection of 10 soil samples (including one duplicate sample).

Soil Investigation

Investigation Methodology

Soil borings were completed using GeoProbe®6610DT track-mounted direct push drill rig to between 20 and 25 feet below ground surface (bgs). Soil borings were completed for the purpose of Site-wide characterization and area of concern (AOC) investigation, as described below and in Table 1:

Soil Boring(s)	Investigation Rationale
LSB-15A through LSB-20A	AOC-1, AOC-2, and AOC-3 Investigation and Site-wide characterization
LSB-24A, LSB-27A	AOC-2 and AOC-3 Investigation and Site-wide characterization

Discrete soil samples were collected from the surface to the final depth of each boring and were visually classified for soil type, grain size, texture, and moisture content. Continuous macrocore samples were collected in 5-foot long acetate liners to the bottom of each boring. Soil cuttings exhibiting no gross impacts were placed back into boreholes after completion of the investigation.

Field screening of soil during sample collection for volatile organic compounds (VOCs) using a field calibrated photoionization detector (PID) equipped with a 10.6-electron volt (eV) lamp was completed during the installation of all eight test borings. Elevated PID readings above background were not detected in any of the soil borings. Additionally, petroleum-like impacts, as evidenced by odors and/or sheen, were not encountered in any of the soil borings. Soil boring logs are provided in Attachment 1. The daily field report is provided as Attachment 2.

Sampling Methodology

A total of 10 discrete soil samples (including one blind duplicate sample) were collected for laboratory analysis. Five samples were collected from the fill layer. Of these samples, four samples were collected from an ash layer identified within the fill layer. The remaining five samples were collected from the sand underlying fill layer.

Samples were collected from all borings from the interval between the deepest samples collected during the 2021 RI and the deeper proposed development depth. Soil samples were submitted for laboratory analysis of VOCs, semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), herbicides, pesticides, Target Analyte List (TAL) Metals, hexavalent chromium, per- and polyfluoroalkyl substances (PFAS), and 1,4-dioxane.

Samples submitted for VOC analysis were collected from a discrete six-inch interval directly from the acetate liner via laboratory-supplied Terra Core soil samplers. PFAS samples were also collected directly from the acetate liner using dedicated nitrile gloves to limit the potential for cross contamination and placed in appropriate laboratory-supplied containers. The remaining two-foot sample interval volume was homogenized and placed in appropriate laboratory-supplied containers for all additional analyses. The sample containers were labeled, placed in a laboratory-supplied cooler and packed on ice (to maintain a temperature of $4\pm 2^{\circ}\text{C}$). The sample coolers were picked up and delivered via courier under standard chain-of-custody protocol to by Alpha Analytical Laboratories, Inc. (Alpha), a NYSDOH ELAP-certified analytical laboratory (NYSDOH ELAP certification number 11148). In addition, QA/QC samples including one duplicate sample, one matrix spike/matrix spike duplicate (MS/MSD) sample, one field blank, and one trip blank were collected. A sample summary is provided as Table 1.

Quality Assurance Samples and Data Validation

All soil sampling devices were properly decontaminated according to NYSDEC and ASTM (ASTM D-5088-90) guidelines prior to each sampling location. For soil sampling, this included the use of a dedicated acetate liner within a stainless steel macrocore sampling device. Soil samples were then placed in glassware supplied by the laboratory.

Each sample was numbered and recorded in a field log book. Soil samples were transferred to the laboratory immediately after field sampling was completed and were stored at a maximum of 4° Celsius. Chain-of-custody forms were utilized to document custody for the acquisition, possession and analysis.

Quality assurance (trip blank) and quality control samples (field blank sample, duplicate sample, and MS/MSD sample) were incorporated into the sampling events and consisted of one field blank, one duplicate sample, one trip blank, and one MS/MSD sample.

During the 2023 SRI, one soil duplicate sample was collected from the LSB-20A location from 15 to 17 feet bgs for VOCs, SVOCs, PCBs, pesticides, herbicides, TAL metals, hexavalent chromium, mercury, PFAS, and 1,4-dioxane analysis; the analytical results were consistent with those reported from the LSB-20A parent sample location.

During the 2023 SRI, one soil sampling field blank was also collected and analyzed for VOCs, SVOCs, PCBs, pesticides, herbicides, total TAL metals, hexavalent chromium, mercury, PFAS, and 1,4-dioxane. The SVOC benzoic acid and the metals calcium, chromium, and sodium were detected. One trip blank was collected and analyzed for VOCs; no compounds were detected in this sample.

Analytical data was submitted to a Langan validator for review in accordance with United States Environmental Protection Agency (USEPA) and NYSDEC validation protocols. A data usability report (DUSR) was prepared for each delivery group following data validation. The DUSR presents the results of data validation, including a summary assessment of laboratory data packages, sample preservation and chain-of-custody procedures, and a summary assessment of precision, accuracy, representativeness, comparability, and completeness for each analytical method. For each of the organic analytical methods, the following was assessed:

- Holding times
- Instrument tuning
- Instrument calibrations
- Blank results
- System monitoring compounds or surrogate recovery compounds (as applicable)

- Internal standard recovery results
- MS/MSD results
- Target compound identification
- Chromatogram quality
- Compound quantization and reported detection limits
- System performance
- Results verification

Based on the results of data validation, the following qualifiers may be assigned to the data in accordance with the USEPA guidelines and best professional judgment:

- **R** – The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
- **J** – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- **UJ** – The analyte was not detected at a level greater than or equal to the reporting limit (RL); however, the reported RL is approximate and may be inaccurate or imprecise.
- **U** – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.
- **NJ** – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

After data validation was complete, validated data was used to prepare the tables and figures included in this report.

Field Observations and Analytical Results

Soil Findings

As reported in the 2021 RIR, fill at the Site generally consists of brown, gray, or black fine to coarse sand with varying proportions of fine to coarse gravel, silt, clay, ash, and miscellaneous debris including brick, concrete, asphalt, wood, and glass to depths ranging from approximately 13.5 to at least 30 feet below grade. The fill is underlain by a native brown to dark brown or dark grey sand unit with varying proportion of gravel, silt and clay. Stratigraphy in the borings completed during the 2023 SRI was consistent with the findings of the 2021 RIR. Groundwater

was observed within the soil borings between 11 and 19 feet bgs during the 2023 SRI. Soil boring logs are included as Attachment 1.

Analytical Results

All soil analytical results were compared to the NYSDEC Unrestricted Use Soil Cleanup Standards SCOs, Restricted-Residential Restricted Use SCOs (RUSCOs), and Protection of Groundwater SCOs and are summarized in Table 2. All soil analytical results are summarized on Figures 3A/3B. Duplicate soil samples results are not included in the discussion as these samples are collected for quality assurance/quality control verification of the laboratory results only and are discussed in detail above.

Ten discrete soil samples, including one field duplicate, were collected and analyzed for Part 375/TCL VOCs and SVOCs, PCBs, pesticides, and herbicides, Part 375/TAL metals including hexavalent chromium, trivalent chromium, and total cyanide, as well as emerging contaminants (including 1,4-dioxane and PFAS). Full laboratory reports for the SRI are included in Attachment 3. Soil sample results that exceed SCOs for samples collected during the RI are shown on Figures 2A and 2B.

The following contaminants were detected at concentrations exceeding NYSDEC Part 375 Unrestricted Use SCOs (normal text), Restricted-Residential RUSCOs (bolded) and/or Protection of Groundwater SCOs (underlined text):

VOCs

Acetone was detected at concentrations exceeding the Unrestricted Use SCOs and Protection of Groundwater SCOs in four soil samples collected from soil borings LSB-15A, LSB-17A, LSB-19A, and LSB-24A at depths ranging from 14 to 20 feet bgs. Acetone is a common laboratory contaminant and its presence is not likely indicative of a release. No other VOCs were detected above applicable SCOs during the 2023 SRI. The following table provides a summary of VOCs that were detected above Unrestricted Use SCOs:

Analyte	Minimum Detected Concentration Above SCO (mg/kg)	Maximum Detected Concentration Above SCO (mg/kg)	UU, PGW, and RURR SCOs (mg/kg)
Acetone	<u>0.11</u> in LSB19A_18-20	<u>0.28</u> in LSB24A_16-18	UU: 0.05 PGW: <u>0.05</u> RURR: 100

1. Concentrations in regular face exceed Unrestricted Use SCOs (UU).
2. Concentrations that are underlined exceed Protection of Groundwater SCOs (PGW).
3. RURR= Restricted-Residential RUSCOs

SVOCs

No SVOCs were detected at concentrations exceeding the Unrestricted Use SCOs, Restricted-Residential RUSCOs and/or Protection of Groundwater SCOs during the 2023 SRI.

Pesticides

One pesticide was detected at a concentration exceeding the Unrestricted Use SCO in one sample collected at a depth of 19.5 to 21.5 feet bgs from soil boring LSB-16A. No other pesticides were detected above the applicable SCOs during the 2023 SRI. The following table provides a summary of the pesticide that was detected above the Unrestricted Use SCO:

Analyte	Minimum Detected Concentration Above SCO (mg/kg)	Maximum Detected Concentration Above SCO (mg/kg)	UU, PGW, and RURR SCOs (mg/kg)
4,4'-DDD	0.00604 in LSB16A_19.5-21.5	0.00604 in LSB16A_19.5-21.5	UU: 0.0033 PGW: 14 RURR: 13

1. Concentrations in regular face exceed Unrestricted Use SCOs.

Herbicides

No herbicides were detected at concentrations exceeding the Unrestricted Use SCOs, Restricted-Residential RUSCOs and/or Protection of Groundwater SCOs.

PCBs

Total PCBs were detected at concentrations exceeding the Unrestricted Use SCO in two samples from soil borings LSB-16A and LSB-19A at depths ranging from 18 to 21.5 feet bgs. No other PCBs were detected above applicable SCOs during the 2023 SRI. The following table provides a summary of PCBs that were detected above Unrestricted Use SCO:

Analyte	Minimum Detected Concentration Above SCO (mg/kg)	Maximum Detected Concentration Above SCO (mg/kg)	UU, PGW, and RURR SCOs (mg/kg)
Total PCBs	0.104 in LSB19A_18-20	0.211 in LSB16A_19.5-21.5	UU: 0.1 PGW: 3.2 RURR: 1

1. Concentrations in regular face exceed Unrestricted Use SCOs.

Inorganics

Seven metals were detected at concentrations exceeding the Unrestricted Use SCOs, Restricted-Residential RUSCOs, and/or Protection of Groundwater SCOs in six samples from six soil borings at depths ranging from 15 to 21.5 feet bgs. The following table provides a summary of metals that were detected above Unrestricted Use SCOs, Restricted-Residential RUSCOs, and/or Protection of Groundwater SCOs:

Analyte	Minimum Detected Concentration Above SCO (mg/kg)	Maximum Detected Concentration Above SCO (mg/kg)	UU, PGW, and RURR SCOs (mg/kg)
Barium	360 in LSB20A_12-14	527 in LSB19A_18-20	UU: 350 PGW: <u>820</u> RURR: 400
Cadmium	4.71 in LSB19A_18-20	<u>9.16</u> in LSB20A_15-17	UU: 2.5 PGW: <u>7.5</u> RURR: 4.3
Copper	63.4 in LSB20A_12-14	77.9 in LSB19A_18-20	UU: 50 PGW: <u>1,720</u> RURR: 270
Lead	79.1 in LSB16A_19.5-21.5	4,400 in LSB18A_16.5-18.5	UU: 63 PGW: <u>450</u> RURR: 400
Mercury	0.291 in LSB19A_18-20	0.379 in LSB20A_12-14	UU: 0.18 PGW: <u>0.73</u> RURR: 0.81
Nickel	38.6 in LSB20A_15-17	38.6 in LSB20A_15-17	UU: 30 PGW: <u>130</u> RURR: 310
Zinc	245 in LSB20A_12-14	2,030 in LSB18A_16.5-18.5	UU: 109 PGW: <u>2,480</u> RURR: 10,000

1. Concentrations in regular face exceed Unrestricted Use SCOs.
2. Concentrations in boldface exceed Restricted-Residential RUSCOs.
3. Concentrations that are underlined exceed Restricted Use PG SCOs.

Emerging Contaminants (PFAS: 40-Compound List)

No Perfluorooctanoic acid (PFOA) or perfluorooctanesulfonic acid (PFOS) were detected at concentrations exceeding the guidance values.

Data Usability

The DUSRs were prepared in accordance with DER-10 and reviewed by Langan's in-house validator before issuance. The DUSRs presented the results of data validation, including a summary assessment of laboratory data packages, sample preservation and chain of custody procedures, and a summary assessment of deficiencies for each analytical method. All data are considered usable, as qualified. Some data qualifiers were appended to the reported results, which have been included in Table 2. DUSRs for the RI are provided in Attachment 4.

EVALUATION OF AREAS OF CONCERN (AOCS)

This SRI was performed to supplement the April 2021 RIR to further define the extent and location of soil exceeding Track 1 Unrestricted Use SCOs. Based on the analytical results of the RI and SRI, soil exceeding Track 1 Unrestricted Use SCOs is present site-wide between 12 feet bgs on the northern portion of the Site and 22.5 feet bgs on the southwestern portion.

AOC-1: Former On-Site Gasoline Filling Station

Soil

There are no changes to the soil analytical results summary for this AOC, except for the number and depth of metals detections and completion of PFAS analysis. The following summary supersedes that provided in the 2021 RIR:

- The metals barium, cadmium, copper, lead, and mercury were detected above the Restricted-Residential RUSCOs in 10 samples collected from 0 to 18.5 feet bgs in five boring locations within AOC-1. No other metals were detected above the Restricted-Residential RUSCOs. Metals including barium, cadmium, trivalent chromium, copper, lead, mercury, nickel, and zinc were detected above the Unrestricted Use SCOs and/or Protection of Groundwater SCOs in all samples collected within AOC-1.
- No PFAS were detected in exceedance of the guidance values in any samples collected from within AOC-1 during the 2023 SRI.

Groundwater

There are no changes to the groundwater analytical results summary for this AOC as groundwater samples were not collected as part of the 2023 SRI.

Soil Vapor

There are no changes to the soil vapor analytical results summary for this AOC as soil vapor samples were not collected as part of the 2023 SRI.

AOC-1 Conclusions

There are no changes to the conclusions presented in the 2021 RIR for AOC-1 based on the analytical results from the 2023 SRI.

AOC-2: Former On-Site Automotive Dismantling/Wrecking

Soil

There are no changes to the soil analytical results for this AOC, except for the number and/or depth of metals, pesticides, and PBCs detections. The following summary supersedes that provided in the 2021 RIR:

- The metals barium, cadmium, copper, lead and mercury were detected above the Restricted-Residential RUSCOs in 20 samples collected from 0 to 20 feet bgs in 13 boring locations across the Site. No other metals were detected above the Restricted-Residential RUSCOs. Metals including arsenic, barium, cadmium, trivalent chromium, copper, lead, mercury, nickel, selenium, silver, and zinc were detected above the Unrestricted Use SCOs and/or Protection of Groundwater SCOs in 39 samples from all the soil borings.
- Four pesticides, including 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, and dieldrin were detected above Unrestricted Use SCOs in 17 samples collected 0 to 22.5 feet bgs in nine soil borings (LSB-16, LSB-18, LSB-19, LSB-20, LSB-21, LSB-22, LSB-23, LSB-25, LSB-26).
- Total PCBs were detected above the Restricted-Residential RUSCOs in LSB-22 from 4 to 6 feet bgs and were detected above Unrestricted Use SCOs in LSB-15 from 0 to 2 feet bgs, in LSB-16 from 14 to 16 feet bgs and 19.5 to 21.5 feet bgs, in LSB-19 from 18 to 20 feet bgs, and in LSB-26 from 10 to 12 feet bgs.

Groundwater

There are no changes to the groundwater analytical results summary for this AOC as groundwater samples were not collected as part of the 2023 SRI.

Soil Vapor

There are no changes to the soil vapor analytical results summary for this AOC as soil vapor samples were not collected as part of the 2023 SRI.

AOC-2 Conclusions

There are no changes to the conclusions presented in the 2021 RIR for AOC-2 based on the analytical results from the 2023 SRI.

AOC-3: Presence of Historic Fill

Soil

Soil samples were collected across the entire Site footprint to assess for subsurface impacts associated with former on-Site operations (AOC-2) and historic fill. Analytical results for these samples are presented in the discussion of AOC-2, above.

Groundwater

There are no changes to the groundwater analytical results summary for this AOC as groundwater samples were not collected as part of the 2023 SRI.

Soil Vapor

There are no changes to the soil vapor analytical results summary for this AOC as soil vapor samples were not collected as part of the 2023 SRI.

AOC-3 Conclusions

There are no changes to the conclusions presented in the 2021 RIR for AOC-3 based on the analytical results from the 2023 SRI.

QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT (QHHEA)

No changes to the QHHEA presented in the January 2021 RIR are proposed for current conditions, construction and remediation conditions, or future conditions based on the findings of the 2023 SRI.

NATURE AND EXTENT OF SOIL CONTAMINATION

During environmental investigations completed by Langan in 2018, 2021, and 2023 an ash and fill layer consisting of fine to coarse sand with varying proportions of ash, silt and gravel and miscellaneous debris, including brick, wood, asphalt, glass, concrete, and metal extending from surface grade to between 14 and 30 feet bgs was observed. Forty-three soil samples were collected from the ash/historic fill layer between 0 and 22.5 feet bgs during the investigations.

The VOC acetone was detected in exceedance of the Unrestricted Use SCO and Protection of Groundwater SCO. Acetone is a common laboratory artifact and is likely not associated with historical site uses. No other VOCs were detected above the Unrestricted Use SCOs, Restricted-Residential RUSCOs, or Protection of Groundwater SCOs in any samples collected.

SVOCs commonly associated with the presence of historic fill material including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene, were detected from 0 to 2 and 10 to 14 feet bgs in six of 43 fill samples collected for SVOC analysis throughout the Site footprint at concentrations exceeding the Unrestricted Use SCOs, Restricted-Residential RUSCOs, and/or Protection of Groundwater SCOs. SVOCs benzo(k)fluoranthene and chrysene were also detected above the Unrestricted Use SCOs and/or Protection of Groundwater SCOs in four fill samples collected from 0 to 2 and 12 to 14 feet bgs.

Metals including arsenic, barium, cadmium, trivalent chromium, copper, lead, mercury, nickel, selenium, silver, and/or zinc were detected from 0 to 22.5 feet bgs in 39 soil samples in all soil borings collected for metals analysis throughout the Site footprint at concentrations exceeding Unrestricted Use SCOs, and/or Protection of Groundwater SCOs. Barium, cadmium, copper, lead, and mercury were also detected above the Restricted-Residential RUSCOs from 0 to 20 feet bgs in 20 of the 43 soil samples collected for metals analysis.

Pesticides including 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, and dieldrin were detected from 0 to 22.5 feet bgs at concentrations exceeding the Unrestricted Use SCOs in 17 of 43 fill samples collected for pesticides analysis.

Total PCBs were detected from 0 to 21.5 feet bgs at concentrations exceeding the Unrestricted Use SCOs and/or Protection of Groundwater SCOs in six of 43 fill samples collected for PCB analysis and exceeding the Restricted-Residential RUSCOs in one sample.

PFAS compounds including PFOS and/or PFOA were detected from 0 to 12 feet bgs at concentrations exceeding the Unrestricted Use Guidance Values in seven of the 31 soil samples collected for which it was analyzed during the 2021 RI and the 2023 SRI. PFAS was not analyzed for samples collected during the 2018 Phase II EI.

Elevated concentrations of SVOCs, metals, pesticides, PCBs, and PFAS in fill material are attributed to fill material from the city solid waste incinerator and fill of unknown origin; the presence of SVOCs, metals, and PFAS may also be attributable to historical automotive dismantling operations.

CONCLUSIONS

This SRI was performed to supplement the April 2021 RIR to further define the extent and location of soil exceeding Track 1 Unrestricted Use SCOs. Based on the analytical results of the RI and SRI, soil exceeding Track 1 Unrestricted Use SCOs is present site-wide between 12 feet bgs on the northern portion of the Site and 22.5 feet bgs on the southwestern portion of the Site.

Remediation of 12096 Flatlands Avenue will be completed through implementation of the forthcoming, revised RAWP, upon approval by NYSDEC. The RAWP will be revised to reflect the SRI results as they pertain to the remedial action.

Sincerely,

**Langan Engineering, Environmental, Surveying,
Landscape Architecture and Geology, D.P.C.**



Amanda Forsburg, CHMM
Associate



Steven Ciambuschini, PG
Senior Principal / Senior Vice President

AF:SAC:kn

Attachments:	Table 1	Sample Collection Summary
	Table 2	Soil Sample Analytical Results Summary
	Figure 1	Site Location Map
	Figure 2A	Soil Sample Analytical Results Map – SVOCs and Metals
	Figure 2B	Soil Sample Analytical Results Map – VOCs, Pesticides, Herbicides, PCBs and PFAs
	Attachment 1	Soil Boring Logs
	Attachment 2	Daily Field Report
	Attachment 3	Laboratory Data Reports
	Attachment 4	DUSR

TABLES

Table 1
Remedial Investigation and Supplemental Remedial Investigation
Sample Summary and Rationale

12096 Flatlands Avenue
Brooklyn, New York
NYSDEC BCP Site No.: C224290
Langan Project No.: 100688801

Boring(s)	Sample ID	Stratigraphy	Sample Depth/ Screened Interval (feet bgs)	Sample Date	Analytical Parameters	Rationale
Soil						
LSB-15	005_LSB-15A	Ash	0-2	5/8/2018	VOCs, SVOCs, Pesticides, PCBs, Trivalent Chromium, Metals, Hexavalent Chromium, Mercury	AOC-1, AOC-2, and AOC-3 Investigation, Site-Wide Characterization
	006_LSB-15B	Ash	12-14			
LSB-15A	LSB15A_16.5-18.5	Sand	16.5-18.5	4/19/2023	VOCs, SVOCs, 1,4-Dioxane, Pesticides, Herbicides, PCBs, Metals, Hexavalent Chromium, Mercury, Cyanide, Emerging Contaminants	
LSB-16	014_LSB-16A	Ash	0-2	5/8/2018	VOCs, SVOCs, Pesticides, PCBs, Trivalent Chromium, Metals, Hexavalent Chromium, Mercury	
	015_DUP-1	Ash	0-2			
	016_LSB-16B	Ash	14-16			
LSB-16A	LSB16A_19.5-21.5	Sand	19.5-21.5	4/19/2023	VOCs, SVOCs, 1,4-Dioxane, Pesticides, Herbicides, PCBs, Metals, Hexavalent Chromium, Mercury, Cyanide, Emerging Contaminants	
LSB-17	007_LSB-17A	Ash	0-2	5/8/2018	VOCs, SVOCs, Pesticides, PCBs, Trivalent Chromium, Metals, Hexavalent Chromium, Mercury	
	008_LSB-17B	Ash	10-12			
LSB-17A	LSB17A_14-16	Sand	14-16	4/19/2023	VOCs, SVOCs, 1,4-Dioxane, Pesticides, Herbicides, PCBs, Metals, Hexavalent Chromium, Mercury, Cyanide, Emerging Contaminants	
LSB-18	011_LSB-18A	Ash	0-2	5/8/2018	VOCs, SVOCs, Pesticides, PCBs, Trivalent Chromium, Metals, Hexavalent Chromium, Mercury	
	012_LSB-18B	Ash	12-14			
LSB-18A	LSB18A_16.5-18.5	Fill/Ash	16.5-18.5	4/19/2023	VOCs, SVOCs, 1,4-Dioxane, Pesticides, Herbicides, PCBs, Metals, Hexavalent Chromium, Mercury, Cyanide, Emerging Contaminants	
LSB-19	019_LSB-19A	Ash	0-2	5/8/2018	VOCs, SVOCs, Pesticides, PCBs, Trivalent Chromium, Metals, Hexavalent Chromium, Mercury	
	020_LSB-19B	Ash	10-12			
LSB-19A	LSB19A_18-20	Fill/Ash	18-20	4/19/2023	VOCs, SVOCs, 1,4-Dioxane, Pesticides, Herbicides, PCBs, Metals, Hexavalent Chromium, Mercury, Cyanide, Emerging Contaminants	
LSB-20	009_LSB-20A	Ash	0-2	5/8/2018	VOCs, SVOCs, Pesticides, PCBs, Trivalent Chromium, Metals, Hexavalent Chromium, Mercury	
	010_LSB-20B	Ash	9-11			
LSB-20A	LSB20A_12-14	Fill/Sand	12-14	4/19/2023	VOCs, SVOCs, 1,4-Dioxane, Pesticides, Herbicides, PCBs, Metals, Hexavalent Chromium, Mercury, Cyanide, Emerging Contaminants	
	LSB20A_15-17	Fill/Ash	15-17			
	DUP01_04192023	Fill/Ash	15-17			
LSB-21	066_LSB-21A	Fill/Sand	0-2	4/13/2021		
	067_LSB-21B	Fill/Sand	5-7			
	068_LSB-21C	Fill/Sand	12-14			
LSB-22	063_LSB-22A	Fill/Sand	0-2	4/13/2021		
	064_LSB-22B	Ash	4-6			
	065_LSB-22C	Fill/Sand	13-15			
LSB-23	069_LSB-23A	Fill/Sand	0-2	4/15/2021		
	070_LSB-23B	Ash	8-10			
	071_LSB-23C	Fill/Sand	18-20			
LSB-24	082_LSB-24A	Fill/Sand	0-2	4/15/2021		
	083_LSB-24B	Ash	3-5			
	084_LSB-24C	Fill/Sand	13-15			
LSB-24A	LSB24A_16-18	Sand	16-18	4/19/2023		
LSB-25	074_LSB-25A	Fill/Sand	0-2	4/13/2021		
	075_LSB-25B	Fill/Sand	12-14			
	076_LSB-25C	Fill/Sand	17-19			
LSB-26	072_LSB-26A	Fill/Sand	0-2	4/14/2021		
	073_LSB-26B	Fill/Sand	10-12			
	081_LSB-26C	Fill/Sand	20.5-22.5			
LSB-27	085_LSB-27A	Fill/Sand	0-2	4/15/2021		
	086_DUP-4	Fill/Sand	0-2			
	087_LSB-27B	Fill/Sand	7-9			
	088_LSB-27C	Fill/Sand	13-15			
LSB-27A	LSB27A_17-19	Sand	17-19	4/19/2023		

Table 1
Remedial Investigation and Supplemental Remedial Investigation
Sample Summary and Rationale

12096 Flatlands Avenue
Brooklyn, New York
NYSDEC BCP Site No.: C224290
Langan Project No.: 100688801

Boring(s)	Sample ID	Stratigraphy	Sample Depth/ Screened Interval (feet bgs)	Sample Date	Analytical Parameters	Rationale			
Groundwater									
LMW-5	053_LMW-5	-	10-20	5/14/2018	VOCs, SVOCs, Pesticides, PCBs, Trivalent Chromium, Metals (Total & Dissolved), Hexavalent Chromium, Mercury (Total & Dissolved),	AOC-1, AOC-2, and AOC-3 Investigation, Site-Wide Characterization			
		054_DUP-3	-				10-20		
LMW-7	105_LMW-5	-	10-20	4/26/2021	VOCs, SVOCs, 1,4-Dioxane, Pesticides, Herbicides, PCBs, Trivalent Chromium, Metals (Total & Dissolved) Hexavalent Chromium, Mercury (Total & Dissolved), Cyanide, Emerging Contaminants	AOC-2 and AOC-3 Investigation, Site-Wide Characterization			
		102_LMW-7	-				10-20		
	103_DUP-1	-	10-20						
	101_LMW-8	-	10-20						
	106_LMW-9	-	15-25						
	110_LMW-10	-	12.5-22.5						
	109_LMW-11	-	15-25						
	108_LMW-12	-	15-30						
	111_LMW-13	-	12-22						
	107_LMW-14	-	10-25						
									AOC-1, AOC-2, and AOC-3 Investigation, Site-Wide Characterization
Soil Vapor									
LSV-2	092_LSV-2	-	10.5				4/19/2021	VOCs	AOC-1, AOC-2, and AOC-3 Investigation, Site-Wide Characterization
LSV-2	100_DUP-1	-	10.5						
AMBIENT-1	099_AMBIENT-1	-	-						
LSV-1	091_LSV-1	-	10.5						
LSV-3	093_LSV-3	-	14						
LSV-4	094_LSV-4	-	12.5						
LSV-5	096_LSV-5	-	11.5						
LSV-6	096_LSV-6	-	14						
LSV-7	097_LSV-7	-	16						
LSV-8	098_LSV-8	-	12.5						
Quality Assurance/Quality Control									
Trip Blank	004_TB-1	-	-	5/9/2018	VOCs				
Field Blank	013_FB-1	-	-						
Trip Blank	056_TB-5	-	-	5/14/2018	VOCs				
Field Blank	057_FB-2	-	-						
Field Blank	077_FB-3	-	-	4/13/2021	1,4-Dioxane, Emerging Contaminants				
Trip Blank	078_TB-7	-	-						
Field Blank	079_FB-4	-	-	4/14/2021	VOCs, SVOCs, 1,4-Dioxane, Pesticides, Herbicides, PCBs, Metals, Hexavalent Chromium, Mercury, Emerging Contaminants				
Trip Blank	080_TB-8	-	-						
Field Blank	089_FB-5	-	-						
Trip Blank	090_TB-9	-	-	4/15/2021	1,4-Dioxane, Emerging Contaminants				
Field Blank	104_FB-1	-	-						
Trip Blank	112_TB-1	-	-	4/26/2021	VOCs, SVOCs, 1,4-Dioxane, Pesticides, Herbicides, PCBs, Trivalent Chromium, Metals (Total & Dissolved), Hexavalent Chromium, Mercury (Total & Dissolved), Cyanide, Emerging				
Field Blank	FB01_04192023	-	-						
Field Blank	FB01_04192023	-	-	4/19/2023	VOCs, SVOCs, 1,4-Dioxane, Pesticides, Herbicides, PCBs, Trivalent Chromium, Metals (Total & Dissolved), Hexavalent Chromium, Mercury (Total & Dissolved), Cyanide, Emerging				
Equipment Blank	EB01_04192023	-	-						
Trip Blank	TB01_04192023	-	-						
					Emerging Contaminants				
					VOCs				

Table 2
Supplemental Remedial Investigation Report
Soil Sample Analytical Results

12096 Flatlands Avenue
Brooklyn, New York
NYSDEC BCP Site No.: C224290
Langan Project No.: 100688802

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted-Residential SCOs	Location																
					Sample Name	LSB-15	LSB-15	LSB-15	LSB-16	LSB-16	LSB-16	LSB-16	LSB-16	LSB-17	LSB-17	LSB-17	LSB-18	LSB-18	LSB-18	LSB-19	LSB-19
					Sample Date	005_LSB-15A	006_LSB-15B	LSB15A_16.5-18.5	014_LSB-16A	015_DUP-1	016_LSB-16B	LSB16A_19.5-21.5	007_LSB-17A	008_LSB-17B	LSB17A_14-16	011_LSB-18A	012_LSB-18B	LSB18A_16.5-18.5	019_LSB-19A	020_LSB-19B	
					Sample Depth	0-2	12-14	16.5-18.5	0-2	0-2	14-16	19.5-21.5	0-2	10-12	14-16	0-2	12-14	16.5-18.5	0-2	10-12	
Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result					
Volatile Organic Compounds																					
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.00096 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.00048 U	<0.0025 U	<0.0046 U	<0.00075 U	<0.0025 U	<0.0032 U	<0.00073 U	<0.0028 U	<0.0026 U	
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	mg/kg	<0.0024 U	<0.003 U	<0.00096 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.00048 U	<0.0025 U	<0.0046 U	<0.00075 U	<0.0025 U	<0.0032 U	<0.00073 U	<0.0028 U	<0.0026 U	
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.00096 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.00048 U	<0.0025 U	<0.0046 U	<0.00075 U	<0.0025 U	<0.0032 U	<0.00073 U	<0.0028 U	<0.0026 U	
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	NA	<0.0031 U	<0.0026 U	<0.0022 U	NA	<0.0025 U	<0.0046 U	NA	<0.0025 U	<0.0032 U	NA	<0.0028 U	<0.0026 U	
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0019 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.00096 U	<0.0025 U	<0.0046 U	<0.0015 U	<0.0025 U	<0.0032 U	<0.0014 U	<0.0028 U	<0.0026 U	
1,1-Dichloroethane	75-34-3	0.27	0.27	26	mg/kg	<0.0024 U	<0.003 U	<0.0019 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.00096 U	<0.0025 U	<0.0046 U	<0.0015 U	<0.0025 U	<0.0032 U	<0.0014 U	<0.0028 U	<0.0026 U	
1,1-Dichloroethene	75-35-4	0.33	0.33	100	mg/kg	<0.0024 U	<0.003 U	<0.0019 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.00096 U	<0.0025 U	<0.0046 U	<0.0015 U	<0.0025 U	<0.0032 U	<0.0014 U	<0.0028 U	<0.0026 U	
1,1-Dichloropropene	563-58-6	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.00096 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.00048 U	<0.0025 U	<0.0046 U	<0.00075 U	<0.0025 U	<0.0032 U	<0.00073 U	<0.0028 U	<0.0026 U	
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0038 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.0019 U	<0.0025 U	<0.0046 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0029 U	<0.0028 U	<0.0026 U	
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0038 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.0019 U	<0.0025 U	<0.0046 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0029 U	<0.0028 U	<0.0026 U	
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	NS	mg/kg	NA	NA	<0.0038 U	NA	NA	NA	<0.0019 U	NA	NA	<0.003 U	NA	NA	NA	<0.0029 U	NA	
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0038 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.0019 U	<0.0025 U	<0.0046 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0029 U	<0.0028 U	<0.0026 U	
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	52	mg/kg	<0.0024 UJ	<0.003 UJ	<0.0038 U	<0.0031 UJ	<0.0026 UJ	<0.0022 UJ	<0.0019 U	<0.0025 UJ	<0.0046 UJ	<0.003 U	<0.0025 UJ	<0.0032 UJ	<0.0029 U	<0.0028 UJ	<0.0026 UJ	
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0057 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.0029 U	<0.0025 U	<0.0046 U	<0.0045 U	<0.0025 U	<0.0032 U	<0.0044 U	<0.0028 U	<0.0026 U	
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0019 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.00096 U	<0.0025 U	<0.0046 U	<0.0015 U	<0.0025 U	<0.0032 U	<0.0014 U	<0.0028 U	<0.0026 U	
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	mg/kg	<0.0024 U	<0.003 U	<0.0038 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.0019 U	<0.0025 U	<0.0046 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0029 U	<0.0028 U	<0.0026 U	
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	mg/kg	<0.0024 U	<0.003 U	<0.00096 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.00096 U	<0.0025 U	<0.0046 U	<0.0015 U	<0.0025 U	<0.0032 U	<0.0014 U	<0.0028 U	<0.0026 U	
1,2-Dichloropropane	78-87-5	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0019 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.00096 U	<0.0025 U	<0.0046 U	<0.0015 U	<0.0025 U	<0.0032 U	<0.0014 U	<0.0028 U	<0.0026 U	
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	mg/kg	<0.0024 UJ	<0.003 UJ	<0.0038 U	<0.0031 UJ	<0.0026 UJ	<0.0022 UJ	<0.0019 U	<0.0025 UJ	<0.0046 UJ	0.00029 J	<0.0025 UJ	<0.0032 UJ	<0.0029 U	<0.0028 UJ	<0.0026 UJ	
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	mg/kg	<0.0024 U	<0.003 U	<0.0038 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.0019 U	<0.0025 U	<0.0046 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0029 U	<0.0028 U	<0.0026 U	
1,3-Dichloropropane	142-28-9	NS	NS	NS	mg/kg	<0.0024 UJ	<0.003 UJ	<0.0038 U	<0.0031 UJ	<0.0026 UJ	<0.0022 UJ	<0.0019 U	<0.0025 UJ	<0.0046 UJ	<0.003 U	<0.0025 UJ	<0.0032 UJ	<0.0029 U	<0.0028 UJ	<0.0026 UJ	
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	mg/kg	<0.0024 U	<0.003 U	<0.0038 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.0019 U	<0.0025 U	<0.0046 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0029 U	<0.0028 U	<0.0026 U	
1,4-Diethyl Benzene	105-05-5	NS	NS	NS	mg/kg	NA	NA	<0.0038 U	NA	NA	NA	<0.0019 U	NA	NA	<0.003 U	NA	NA	<0.0029 U	NA	NA	
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	mg/kg	<0.049 UJ	<0.06 UJ	<0.15 U	<0.061 UJ	<0.045 UJ	<0.046 UJ	<0.051 UJ	<0.093 UJ	<0.12 U	<0.049 UJ	<0.065 UJ	<0.12 U	<0.057 UJ	<0.052 UJ	<0.052 UJ	
2,2-Dichloropropane	594-20-7	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0038 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.0019 U	<0.0025 U	<0.0046 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0029 U	<0.0028 U	<0.0026 U	
2-Chlorotoluene	95-49-8	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0038 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.0019 U	<0.0025 U	<0.0046 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0029 U	<0.0028 U	<0.0026 U	
2-Hexanone (MBK)	591-78-6	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.019 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.0096 U	<0.0025 U	<0.0046 U	<0.015 U	<0.0025 U	<0.0032 U	<0.014 U	<0.0028 U	<0.0026 U	
4-Chlorotoluene	106-43-4	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0038 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.0019 U	<0.0025 U	<0.0046 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0029 U	<0.0028 U	<0.0026 U	
4-Ethyltoluene	622-96-8	NS	NS	NS	mg/kg	NA	NA	<0.0038 U	NA	NA	NA	<0.0019 U	NA	NA	<0.003 U	NA	NA	<0.0029 U	NA	NA	
Acetone	67-64-1	0.05	0.05	100	mg/kg	0.0078 J	0.043 J	0.27	0.013 J	<0.0052 UJ	0.033 J	0.023	<0.0051 UJ	0.08 J	0.15	<0.0049 UJ	0.029 J	0.018	0.011 J	0.04 J	
Acrolein	107-02-8	NS	NS	NS	mg/kg	<0.0049 U	<0.006 U	NA	<0.0061 U	<0.0052 U	<0.0045 U	NA	<0.0049 U	NA	<0.0065 U	<0.0065 U	<0.0065 U	<0.0065 U	<0.0065 U	<0.0065 U	
Acrylonitrile	107-13-1	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0077 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.0038 U	<0.0025 U	<0.0046 U	<0.006 U	<0.0025 U	<0.0032 U	<0.0058 U	<0.0028 U	<0.0026 U	
Benzene	71-43-2	0.06	0.06	4.8	mg/kg	<0.0024 U	<0.003 U	<0.00096 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.00048 U	<0.0025 U	<0.0046 U	<0.00075 U	<0.0025 U	<0.0032 U	<0.00073 U	<0.0028 U	<0.0026 U	
Bromobenzene	108-86-1	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0038 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.0019 U	<0.0025 U	<0.0046 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0029 U	<0.0028 U	<0.0026 U	
Bromochloromethane	74-97-5	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0038 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.0019 U	<0.0025 U	<0.0046 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0029 U	<0.0028 U	<0.0026 U	
Bromodichloromethane	75-27-4	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.00096 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.00048 U	<0.0025 U	<0.0046 U	<0.00075 U	<0.0025 U	<0.0032 U	<0.00073 U	<0.0028 U	<0.0026 U	
Bromoform	75-25-2	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0077 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.0038 U	<0.0025 U	<0.0046 U	<0.006 U	<0.0025 U	<0.0032 U	<0.0058 U	<0.0028 U	<0.0026 U	
Bromomethane	74-83-9	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0038 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.0019 U	<0.0025 U	<0.0046 U	<0.003 U	<0.0025 U	<0.0032 U	<0.0029 U	<0.0028 U	<0.0026 U	
Carbon Disulfide	75-15-0	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.019 U	<0.0031 U	<0.0026 U	<0.0022 U	0.0056 J	<0.0025 U	<0.0046 U	<0.015 U	<0.0025 U	0.0045 J	<0.014 U	<0.0028 U	<0.0026 U	
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	mg/kg	<0.0024 U	<0.003 U	<0.0019 U	<0.0031 U	<0.0026 U	<0.0022 U	<0.00096 U	<0.0025 U	<0.0046 U	<0.0015 U	<0.0025 U	<0.0032 U	<0.0014 U	<0.0028 U	<0.0026 U	

Table 2
Supplemental Remedial Investigation Report
Soil Sample Analytical Results

12096 Flatlands Avenue
Brooklyn, New York
NYSDEC BCP Site No.: C224290
Langan Project No.: 100688802

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Residential SCOs	Location																	
					Location	LSB-15	LSB-15	LSB-15	LSB-16	LSB-16	LSB-16	LSB-16	LSB-16	LSB-17	LSB-17	LSB-17	LSB-18	LSB-18	LSB-18	LSB-19	LSB-19	
					Sample Name	005_LSB-15A	006_LSB-15B	LSB15A_16.5-18.5	014_LSB-16A	015_DUP-1	016_LSB-16B	LSB16A_19.5-21.5	007_LSB-17A	008_LSB-17B	LSB17A_14-16	011_LSB-18A	012_LSB-18B	LSB18A_16.5-18.5	019_LSB-19A	020_LSB-19B		
					Sample Date	05/08/2018	05/08/2018	04/19/2023	05/08/2018	05/08/2018	05/08/2018	04/19/2023	05/08/2018	05/08/2018	04/19/2023	05/08/2018	05/08/2018	04/19/2023	05/08/2018	05/08/2018	04/19/2023	05/08/2018
Semi-Volatile Organic Compounds					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result			
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	mg/kg	<0.0882 U	<0.107 U	<0.22 U	<0.0923 U	<0.0917 U	<0.0916 U	<0.2 U	<0.0891 U	<0.103 U	<0.22 U	<0.0888 U	<0.0953 U	<0.22 U	<0.0884 U	<0.0933 U		
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.0442 U	<0.0538 U	<0.22 U	<0.0463 U	<0.0459 U	<0.0459 U	<0.2 U	<0.0447 U	<0.0517 U	<0.22 U	<0.0445 U	<0.0478 U	<0.22 U	<0.0443 U	<0.0468 U		
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	mg/kg	<0.0442 U	<0.0538 U	<0.22 U	<0.0463 U	<0.0459 U	<0.0459 U	<0.2 U	<0.0447 U	<0.0517 U	<0.22 U	<0.0445 U	<0.0478 U	<0.22 U	<0.0443 U	<0.0468 U		
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	mg/kg	<0.0442 UJ	<0.0538 UJ	NA	<0.0463 UJ	<0.0459 UJ	<0.0459 UJ	NA	<0.0447 UJ	<0.0517 UJ	NA	<0.0445 UJ	<0.0478 UJ	NA	<0.0443 UJ	<0.0468 UJ		
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	mg/kg	<0.0442 U	<0.0538 U	<0.22 U	<0.0463 U	<0.0459 U	<0.0459 U	<0.2 U	<0.0447 U	<0.0517 U	<0.22 U	<0.0445 U	<0.0478 U	<0.22 U	<0.0443 U	<0.0468 U		
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	mg/kg	<0.0442 U	<0.0538 U	<0.22 U	<0.0463 U	<0.0459 U	<0.0459 U	<0.2 U	<0.0447 U	<0.0517 U	<0.22 U	<0.0445 U	<0.0478 U	<0.22 U	<0.0443 U	<0.0468 U		
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	mg/kg	NA	NA	<0.033 U	NA	NA	NA	<0.029 U	NA	NA	<0.032 U	NA	NA	<0.034 U	NA	NA		
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	mg/kg	<0.0882 U	<0.107 U	NA	<0.0923 U	<0.0917 U	<0.0916 U	NA	<0.0891 U	<0.103 U	NA	<0.0888 U	<0.0953 U	NA	<0.0884 U	<0.0933 U		
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	mg/kg	<0.0442 U	<0.0538 U	<0.22 U	<0.0463 U	<0.0459 U	<0.0459 U	<0.2 U	<0.0447 U	<0.0517 U	<0.22 U	<0.0445 U	<0.0478 U	<0.22 U	<0.0443 U	<0.0468 U		
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	mg/kg	<0.0442 U	<0.0538 U	<0.13 U	<0.0463 U	<0.0459 U	<0.0459 U	<0.12 U	<0.0447 U	<0.0517 U	<0.22 U	<0.0445 U	<0.0478 U	<0.22 U	<0.0443 U	<0.0468 U		
2,4-Dichlorophenol	120-83-2	NS	NS	NS	mg/kg	<0.0442 U	<0.0538 U	<0.2 U	<0.0463 U	<0.0459 U	<0.0459 U	<0.18 U	<0.0447 U	<0.0517 U	<0.19 U	<0.0445 U	<0.0478 U	<0.2 U	<0.0443 U	<0.0468 U		
2,4-Dimethylphenol	105-67-9	NS	NS	NS	mg/kg	<0.0442 U	<0.0538 U	<0.22 U	<0.0463 U	<0.0459 U	<0.0459 U	<0.2 U	<0.0447 U	<0.0517 U	<0.22 U	<0.0445 U	<0.0478 U	<0.22 U	<0.0443 U	<0.0468 U		
2,4-Dinitrophenol	51-28-5	NS	NS	NS	mg/kg	<0.0882 UJ	<0.107 UJ	<1 U	<0.0923 UJ	<0.0917 UJ	<0.0916 UJ	<0.94 U	<0.0891 UJ	<0.103 UJ	<1 U	<0.0888 UJ	<0.0953 UJ	<1.1 U	<0.0884 UJ	<0.0933 UJ		
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	mg/kg	<0.0442 UJ	<0.0538 UJ	<0.22 U	<0.0463 UJ	<0.0459 UJ	<0.0459 UJ	<0.2 U	<0.0447 UJ	<0.0517 UJ	<0.22 U	<0.0445 UJ	<0.0478 UJ	<0.22 U	<0.0443 UJ	<0.0468 UJ		
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	mg/kg	<0.0442 UJ	<0.0538 UJ	<0.22 U	<0.0463 UJ	<0.0459 UJ	<0.0459 UJ	<0.2 U	<0.0447 UJ	<0.0517 UJ	<0.22 U	<0.0445 UJ	<0.0478 UJ	<0.22 U	<0.0443 UJ	<0.0468 UJ		
2-Chloronaphthalene	91-58-7	NS	NS	NS	mg/kg	<0.0442 U	<0.0538 U	<0.22 U	<0.0463 U	<0.0459 U	<0.0459 U	<0.2 U	<0.0447 U	<0.0517 U	<0.22 U	<0.0445 U	<0.0478 U	<0.22 U	<0.0443 U	<0.0468 U		
2-Chlorophenol	95-57-8	NS	NS	NS	mg/kg	<0.0442 U	<0.0538 U	<0.22 U	<0.0463 U	<0.0459 U	<0.0459 U	<0.2 U	<0.0447 U	<0.0517 U	<0.22 U	<0.0445 U	<0.0478 U	<0.22 U	<0.0443 U	<0.0468 U		
2-Methylnaphthalene	91-57-6	NS	NS	NS	mg/kg	0.213 DE	0.423 DE	<0.26 U	<0.0463 U	<0.0459 U	<0.0459 U	0.14 J	0.784 DE	<0.0517 U	<0.26 U	<0.0445 U	<0.0478 U	<0.27 U	0.0608 JDE	<0.0468 U		
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	mg/kg	<0.0442 U	<0.0538 U	<0.22 U	<0.0463 U	<0.0459 U	<0.0459 U	<0.2 U	<0.0447 U	<0.0517 U	<0.22 U	<0.0445 U	<0.0478 U	<0.22 U	<0.0443 U	<0.0468 U		
2-Nitroaniline	88-74-4	NS	NS	NS	mg/kg	<0.0882 UJ	<0.107 UJ	<0.22 U	<0.0923 UJ	<0.0917 UJ	<0.0916 UJ	<0.2 U	<0.0891 UJ	<0.103 UJ	<0.22 U	<0.0888 UJ	<0.0953 UJ	<0.22 U	<0.0884 UJ	<0.0933 UJ		
2-Nitrophenol	88-75-5	NS	NS	NS	mg/kg	<0.0442 UJ	<0.0538 UJ	<0.47 U	<0.0463 UJ	<0.0459 UJ	<0.0459 UJ	<0.42 U	<0.0447 UJ	<0.0517 UJ	<0.47 U	<0.0445 UJ	<0.0478 UJ	<0.48 U	<0.0443 UJ	<0.0468 UJ		
3 & 4 Methylphenol (m & p Cresol)	65794-96-9	0.33	0.33	100	mg/kg	<0.0442 U	<0.0538 U	<0.32 U	<0.0463 U	<0.0459 U	<0.0459 U	<0.28 U	<0.0447 U	<0.0517 U	<0.31 U	<0.0445 U	<0.0478 U	<0.32 U	<0.0443 UJ	<0.0468 UJ		
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	mg/kg	<0.0442 U	<0.0538 U	<0.22 U	<0.0463 U	<0.0459 U	<0.0459 U	<0.2 U	<0.0447 U	<0.0517 U	<0.22 U	<0.0445 U	<0.0478 U	<0.22 U	<0.0443 U	<0.0468 U		
3-Nitroaniline	99-09-2	NS	NS	NS	mg/kg	<0.0882 UJ	<0.107 UJ	<0.22 U	<0.0923 UJ	<0.0917 UJ	<0.0916 UJ	<0.2 U	<0.0891 UJ	<0.103 UJ	<0.22 U	<0.0888 UJ	<0.0953 UJ	<0.22 U	<0.0884 UJ	<0.0933 UJ		
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	mg/kg	<0.0882 UJ	<0.107 UJ	<0.57 U	<0.0923 UJ	<0.0917 UJ	<0.0916 UJ	<0.51 U	<0.0891 UJ	<0.103 UJ	<0.56 U	<0.0888 UJ	<0.0953 UJ	<0.58 U	<0.0884 UJ	<0.0933 UJ		
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	mg/kg	<0.0442 U	<0.0538 U	<0.22 U	<0.0463 U	<0.0459 U	<0.0459 U	<0.2 U	<0.0447 U	<0.0517 U	<0.22 U	<0.0445 U	<0.0478 U	<0.22 U	<0.0443 U	<0.0468 U		
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	mg/kg	<0.0442 U	<0.0538 U	<0.22 U	<0.0463 U	<0.0459 U	<0.0459 U	<0.2 U	<0.0447 U	<0.0517 U	<0.22 U	<0.0445 U	<0.0478 U	<0.22 U	<0.0443 U	<0.0468 U		
4-Chloroaniline	106-47-8	NS	NS	NS	mg/kg	<0.0442 U	<0.0538 U	<0.22 U	<0.0463 U	<0.0459 U	<0.0459 U	<0.2 U	<0.0447 U	<0.0517 U	<0.22 U	<0.0445 U	<0.0478 U	<0.22 U	<0.0443 U	<0.0468 U		
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	mg/kg	<0.0442 U	<0.0538 U	<0.22 U	<0.0463 U	<0.0459 U	<0.0459 U	<0.2 U	<0.0447 U	<0.0517 U	<0.22 U	<0.0445 U	<0.0478 U	<0.22 U	<0.0443 U	<0.0468 U		
4-Nitroaniline	100-01-6	NS	NS	NS	mg/kg	<0.0882 UJ	<0.107 UJ	<0.22 U	<0.0923 UJ	<0.0917 UJ	<0.0916 UJ	<0.2 U	<0.0891 UJ	<0.103 UJ	<0.22 U	<0.0888 UJ	<0.0953 UJ	<0.22 U	<0.0884 UJ	<0.0933 UJ		
4-Nitrophenol	100-02-7	NS	NS	NS	mg/kg	<0.0882 U	<0.107 U	<0.31 U	<0.0923 U	<0.0917 U	<0.0916 U	<0.27 U	<0.0891 U	<0.103 U	<0.3 U	<0.0888 U	<0.0953 U	<0.31 U	<0.0884 U	<0.0933 U		
Acenaphthene	83-32-9	20	98	100	mg/kg	1.05 DE	0.697 DE	<0.18 U	<0.0463 U	<0.0459 U	<0.0459 U	0.31	0.779 DE	<0.0517 U	<0.17 U	<0.0445 U	<0.0478 U	<0.18 U	0.0473 JDE	<0.0468 U		
Acenaphthylene	208-96-8	100	107	100	mg/kg	0.0909 DE	0.0652 JDE	<0.18 U	0.0959 DE	0.0894 JDE	0.0703 JDE	0.058 J	0.39 DE	0.061 JDE	<0.17 U	<0.0445 U	<0.0478 U	<0.18 U	0.194 DE	0.0977 DE		
Acetophenone	98-86-2	NS	NS	NS	mg/kg	<0.0442 U	<0.0538 U	<0.22 U	<0.0463 U	<0.0459 U	<0.0459 U	<0.2 U	<0.0447 U	<0.0517 U	<0.22 U	<0.0445 U	<0.0478 U	<0.22 U	<0.0443 U	<0.0468 U		
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	mg/kg	<0.177 U	<0.215 U	NA	<0.185 U	<0.184 U	<0.183 U	NA	<0.178 U	<0.206 U	NA	<0.178 U	<0.191 U	NA	<0.177 U	<0.187 U		
Anthracene	120-12-7	100	1000	100	mg/kg	2.55 DE	0.957 DE	<0.13 U	0.159 DE	0.147 DE	0.39	1.64 DE	<0.0517 U	<0.13 U	0.13 DE	<0.0478 U	<0.13 U	0.225 DE	0.2 DE	<0.0468 U		
Atrazine	1912-24-9	NS	NS	NS	mg/kg	<0.0442 U	<0.0538 U	NA	<0.0463 U	<0.0459 U	<0.0459 U	NA	<0.0447 U	<0.0517 U	NA	<0.0445 U	<0.0478 U	NA	<0.0443 U	<0.0468 U		
Benzaldehyde	100-52-7	NS	NS	NS	mg/kg	<0.0442 UJ	<0.0538 UJ	NA	<0.0463 UJ	<0.0459 UJ	<0.0459 UJ	NA	<0.0447 UJ	<0.0517 UJ	NA	<0.0445 UJ	<0.0478 UJ	NA	<0.0443 UJ	<0.0468 UJ		
Benzidine	92-87-5	NS	NS	NS	mg/kg	<0.177 U	<0.215 U	NA	<0.185 U	<0.184 U	<0.183 U	NA	<0.178 U	<0.206 U	NA	<0.178 U	<0.191 U	NA	<0.177 U	<0.187 U		
Benzofluoranthene	56-55-3	1	1	1	mg/kg	4.12 DE	1.29 DE	<0.13 U	0.522 DE	0.403 DE	0.19 DE	0.58	2.96 DE	<0.0517 U	<0.13 U	0.555 DE	0.099 DE	0.087 J	0.787 DE	0.699 DE		
Benzofluoranthene	50-32-8	1	22	1	mg/kg	3.63 DE	1.32 DE	<0.18 U	0.55 DE	0.438 DE	0.247 DE	0.51	2.81 DE	<0.0517 U	<0.17 U	0						

Table 2
Supplemental Remedial Investigation Report
Soil Sample Analytical Results

12096 Flatlands Avenue
Brooklyn, New York
NYSDEC BCP Site No.: C224290
Langan Project No.: 100688802

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Residential SCOs	Location																
					Sample Name	LSB-15	LSB-15	LSB-15	LSB-16	LSB-16	LSB-16	LSB-16	LSB-16	LSB-17	LSB-17	LSB-17	LSB-18	LSB-18	LSB-18	LSB-19	LSB-19
					Sample Date	005_LSB-15A	006_LSB-15B	LSB15A_16.5-18.5	014_LSB-16A	015_DUP-1	016_LSB-16B	LSB16A_19.5-21.5	007_LSB-17A	008_LSB-17B	LSB17A_14-16	011_LSB-18A	012_LSB-18B	LSB18A_16.5-18.5	019_LSB-19A	020_LSB-19B	
					Sample Depth	0-2	12-14	16.5-18.5	0-2	0-2	14-16	19.5-21.5	0-2	10-12	14-16	0-2	12-14	16.5-18.5	0-2	10-12	
Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result					
Pesticides																					
4,4'-DDD	72-54-8	0.0033	14	13	mg/kg	<0.00174 UJ	<0.00212 UJ	<0.002 U	<0.00182 UJ	<0.00182 UJ	<0.0018 UJ	0.00604 J	<0.00176 UJ	<0.00205 U	<0.0021 U	<0.00177 UJ	<0.00188 UJ	<0.00206 U	<0.00174 UJ	<0.00185 UJ	
4,4'-DDE	72-55-9	0.0033	17	8.9	mg/kg	<0.00174 UJ	<0.00212 UJ	<0.002 U	<0.00182 UJ	<0.00182 UJ	<0.0018 UJ	<0.00186 U	<0.00176 UJ	<0.00205 U	<0.0021 U	<0.00177 UJ	0.0134 J	<0.00206 U	<0.00174 UJ	<0.00185 UJ	
4,4'-DDT	50-29-3	0.0033	136	7.9	mg/kg	<0.00174 UJ	<0.00212 UJ	<0.002 U	0.0141 J	0.00867 J	0.0127 J	<0.00186 U	<0.00176 UJ	<0.00205 U	<0.0021 U	0.013 J	0.0084 J	<0.00206 U	0.0117 J	0.00444 J	
Aldrin	309-00-2	0.005	0.19	0.097	mg/kg	<0.00174 UJ	<0.00212 UJ	<0.002 U	<0.00182 UJ	<0.00182 UJ	<0.0018 UJ	<0.00186 U	<0.00176 UJ	<0.00205 U	<0.0021 U	<0.00177 UJ	<0.00188 UJ	<0.00206 U	<0.00174 UJ	<0.00185 UJ	
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	mg/kg	<0.00174 UJ	<0.00212 UJ	<0.000832 U	<0.00182 UJ	<0.00182 UJ	<0.0018 UJ	<0.000776 U	<0.00176 UJ	<0.00205 U	<0.0021 U	<0.00177 UJ	<0.00188 UJ	<0.000876 U	<0.00174 UJ	<0.00185 UJ	
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	mg/kg	0.00576 J	<0.00212 UJ	<0.0025 U	0.00771 J	0.00438 J	<0.0018 UJ	<0.00233 U	0.0149 J	<0.00205 U	<0.00263 U	0.0739 J	<0.00188 UJ	<0.00258 U	0.0121 J	<0.00185 UJ	
Alpha Endosulfan	959-98-8	2.4	102	24	mg/kg	<0.00174 UJ	<0.00212 UJ	<0.002 U	<0.00182 UJ	<0.00182 UJ	<0.0018 UJ	<0.00186 U	<0.00176 UJ	<0.00205 U	<0.0021 U	<0.00177 UJ	<0.00188 UJ	<0.00206 U	<0.00174 UJ	<0.00185 UJ	
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	mg/kg	<0.00174 UJ	<0.00212 UJ	<0.002 U	<0.00182 UJ	<0.00182 UJ	<0.0018 UJ	<0.00186 U	<0.00176 UJ	<0.00205 U	<0.0021 U	<0.00177 UJ	<0.00188 UJ	<0.00206 U	<0.00174 UJ	<0.00185 UJ	
Beta Endosulfan	33213-65-9	2.4	102	24	mg/kg	<0.00174 UJ	<0.00212 UJ	<0.002 U	<0.00182 UJ	<0.00182 UJ	<0.0018 UJ	<0.00186 U	<0.00176 UJ	<0.00205 U	<0.0021 U	<0.00177 UJ	<0.00188 UJ	<0.00206 U	<0.00174 UJ	<0.00185 UJ	
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	mg/kg	<0.0348 UJ	<0.0425 UJ	<0.0166 U	<0.0364 UJ	<0.0363 UJ	<0.036 UJ	<0.0155 U	<0.0352 UJ	<0.0409 U	<0.0175 U	0.113 J	<0.0377 UJ	<0.0172 U	<0.0349 UJ	<0.037 UJ	
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	mg/kg	<0.00174 UJ	<0.00212 UJ	<0.002 U	<0.00182 UJ	<0.00182 UJ	<0.0018 UJ	<0.00186 U	<0.00176 UJ	<0.00205 U	<0.0021 U	<0.00177 UJ	<0.00188 UJ	<0.00206 U	<0.00174 UJ	<0.00185 UJ	
Dieldrin	60-57-1	0.005	0.1	0.2	mg/kg	<0.00174 UJ	<0.00212 UJ	<0.00125 U	<0.00182 UJ	<0.00182 UJ	<0.0018 UJ	<0.00116 U	<0.00176 UJ	<0.00205 U	<0.0021 U	0.00695 J	<0.00188 UJ	<0.00129 U	0.00559 J	<0.00185 UJ	
Endosulfan Sulfate	1031-07-8	2.4	1000	24	mg/kg	<0.00174 UJ	<0.00212 UJ	<0.000832 U	<0.00182 UJ	<0.00182 UJ	<0.0018 UJ	<0.000776 U	<0.00176 UJ	<0.00205 U	<0.000876 U	<0.00177 UJ	<0.00188 UJ	<0.000859 U	<0.00174 UJ	<0.00185 UJ	
Endrin	72-20-8	0.014	0.06	11	mg/kg	<0.00174 UJ	<0.00212 UJ	<0.000832 U	<0.00182 UJ	<0.00182 UJ	<0.0018 UJ	<0.000776 U	<0.00176 UJ	<0.00205 U	<0.000876 U	<0.00177 UJ	<0.00188 UJ	<0.000859 U	<0.00174 UJ	<0.00185 UJ	
Endrin Aldehyde	7421-93-4	NS	NS	NS	mg/kg	<0.00174 UJ	<0.00212 UJ	<0.0025 U	<0.00182 UJ	<0.00182 UJ	<0.0018 UJ	<0.00233 U	<0.00176 UJ	<0.00205 U	<0.00263 U	<0.00177 UJ	<0.00188 UJ	<0.00258 U	<0.00174 UJ	<0.00185 UJ	
Endrin Ketone	53494-70-5	NS	NS	NS	mg/kg	<0.00174 UJ	<0.00212 UJ	<0.002 U	<0.00182 UJ	<0.00182 UJ	<0.0018 UJ	<0.00186 U	<0.00176 UJ	<0.00205 U	<0.0021 U	<0.00177 UJ	<0.00188 UJ	<0.00206 U	<0.00174 UJ	<0.00185 UJ	
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	mg/kg	<0.00174 UJ	<0.00212 UJ	<0.000832 U	<0.00182 UJ	<0.00182 UJ	<0.0018 UJ	<0.000776 U	<0.00176 UJ	<0.00205 U	<0.000876 U	<0.00177 UJ	<0.00188 UJ	<0.000859 U	<0.00174 UJ	<0.00185 UJ	
Gamma Chlordane (Trans)	5103-74-2	NS	NS	NS	mg/kg	NA	NA	<0.0025 U	NA	NA	NA	<0.00233 U	NA	NA	<0.00263 U	NA	NA	<0.00258 U	NA	NA	
Gamma-Chlordane	5566-34-7	NS	NS	NS	mg/kg	0.00453 J	<0.00212 UJ	NA	0.0076 J	0.00449 J	<0.0018 UJ	NA	0.0101 J	<0.00205 U	NA	0.0394 J	<0.00188 UJ	NA	0.00938 J	<0.00185 UJ	
Heptachlor	76-44-8	0.042	0.38	2.1	mg/kg	<0.00174 UJ	<0.00212 UJ	<0.000998 U	<0.00182 UJ	<0.00182 UJ	<0.0018 UJ	<0.000931 U	<0.00176 UJ	<0.00205 U	<0.00105 U	0.0105 J	<0.00188 UJ	<0.00103 U	<0.00174 UJ	<0.00185 UJ	
Heptachlor Epoxide	1024-57-3	NS	NS	NS	mg/kg	<0.00174 UJ	<0.00212 UJ	<0.00374 U	<0.00182 UJ	<0.00182 UJ	<0.0018 UJ	<0.00349 U	<0.00176 UJ	<0.00205 U	<0.00394 U	<0.00177 UJ	<0.00188 UJ	<0.00386 U	<0.00174 UJ	<0.00185 UJ	
Methoxychlor	72-43-5	NS	NS	NS	mg/kg	<0.0087 UJ	<0.0106 UJ	<0.00374 U	<0.00911 UJ	<0.00908 UJ	<0.00901 UJ	<0.00349 U	<0.00881 UJ	<0.0102 U	<0.00394 U	<0.00883 UJ	<0.00942 UJ	<0.00386 U	<0.00871 UJ	<0.00925 UJ	
Toxaphene	8001-35-2	NS	NS	NS	mg/kg	<0.0881 UJ	<0.107 UJ	<0.0374 U	<0.0922 UJ	<0.0919 UJ	<0.0912 UJ	<0.0349 U	<0.0891 UJ	<0.104 U	<0.0394 U	<0.0894 UJ	<0.0953 UJ	<0.0386 U	<0.0882 UJ	<0.0936 UJ	
Herbicides																					
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	mg/kg	NA	NA	<0.219 U	NA	NA	NA	<0.198 U	NA	NA	<0.216 U	NA	NA	<0.221 U	NA	NA	
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	mg/kg	NA	NA	<0.219 U	NA	NA	NA	<0.198 U	NA	NA	<0.216 U	NA	NA	<0.221 U	NA	NA	
Silvex (2,4,5-TP)	93-72-1	3.8	3.8	100	mg/kg	NA	NA	<0.219 U	NA	NA	NA	<0.198 U	NA	NA	<0.216 U	NA	NA	<0.221 U	NA	NA	
Polychlorinated Biphenyl																					
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	mg/kg	<0.0176 U	<0.0214 U	<0.0651 U	<0.0184 U	<0.0183 U	<0.0182 U	<0.0585 U	<0.0178 U	<0.0207 U	<0.0646 U	<0.0178 U	<0.019 U	<0.0644 U	<0.0176 U	<0.0187 U	
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	mg/kg	<0.0176 U	<0.0214 U	<0.0651 U	<0.0184 U	<0.0183 U	<0.0182 U	<0.0585 U	<0.0178 U	<0.0207 U	<0.0646 U	<0.0178 U	<0.019 U	<0.0644 U	<0.0176 U	<0.0187 U	
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	mg/kg	<0.0176 U	<0.0214 U	<0.0651 U	<0.0184 U	<0.0183 U	<0.0182 U	<0.0585 U	<0.0178 U	<0.0207 U	<0.0646 U	<0.0178 U	<0.019 U	<0.0644 U	<0.0176 U	<0.0187 U	
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	mg/kg	<0.0176 U	<0.0214 U	<0.0651 U	<0.0184 U	<0.0183 U	<0.0182 U	<0.0585 U	<0.0178 U	<0.0207 U	<0.0646 U	<0.0178 U	<0.019 U	<0.0644 U	<0.0176 U	<0.0187 U	
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	mg/kg	<0.0176 U	<0.0214 U	<0.0651 U	<0.0184 U	<0.0183 U	<0.0182 U	0.11	<0.0178 U	<0.0207 U	<0.0646 U	<0.0178 U	<0.019 U	<0.0644 U	<0.0176 U	<0.0187 U	
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	mg/kg	<0.0176 U	<0.0214 U	<0.0651 U	<0.0184 U	<0.0183 U	0.151 P	0.0539 J	<0.0178 U	<0.0207 U	<0.0646 U	<0.0178 U	<0.019 U	<0.0644 U	<0.0176 U	<0.0187 U	
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	mg/kg	0.208	<0.0214 U	<0.0651 U	0.0969	0.069	0.0635	0.0306 J	0.097	0.0342	<0.0646 U	0.0482	0.0363	<0.0644 U	0.0353	<0.0187 U	
PCB-1262 (Aroclor 1262)	37324-23-5	NS	NS	NS	mg/kg	NA	NA	<0.0651 U	NA	NA	NA	<0.0585 U	NA	NA	<0.0646 U	NA	NA	<0.0644 U	NA	NA	
PCB-1268 (Aroclor 1268)	11100-14-4	NS	NS	NS	mg/kg	NA	NA	<0.0651 U	NA	NA	NA	0.0165 J	NA	NA	<0.0646 U	NA	NA	0.00928 J	NA	NA	
Total PCBs	1336-96-3	0.1	3.2	1	mg/kg	0.208	<0.0214 U	<0.0651 U	0.0969	0.069	0.215	0.211 J	0.097	0.0342	<0.0646 U	0.0482	0.0363	0.00928 J	0.0353	<0.0187 U	
Metals																					
Aluminum	7429-90-5	NS	NS	NS	mg/kg	5,250	5,630	8,210	6,670	4,920	6,760	4,040	6,120	3,600	5,390	7,030	7,310	2,700	6,350	5,750	
Antimony	7440-36-0	NS	NS	NS	mg/kg	<0.53 U	0.713	0.635 J	1.45	1.23	<0.549 U	0.815 J	1.14	0.651	0.486 J	<0.536 U	<0.572 U	1.69 J	<0.531 U	0.587	
Arsenic	7440-38-2	13	16	16	mg/kg	1.46	3.54	3.3	7.71	5.08	<1.1 U	3.17	<1.07 U	5.94	2	5.1	<1.14 U	6.61	3.73	2.62	
Barium	7440-39-3	350	820	400	mg/kg	113	168	16.9	697	346	63.7	269	10,400	16.1	104	93.2	429	305	481		

Table 2
Supplemental Remedial Investigation Report
Soil Sample Analytical Results

12096 Flatlands Avenue
Brooklyn, New York
NYSDEC BCP Site No.: C224290
Langan Project No.: 100688802

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Residential SCOs	Location																									
					LSB-15		LSB-15		LSB-15		LSB-16		LSB-16		LSB-16		LSB-17		LSB-17		LSB-18		LSB-18		LSB-18		LSB-19		LSB-19	
					Sample Name	005_LSB-15A	006_LSB-15B	LSB15A_16.5-18.5	014_LSB-16A	015_DUP-1	016_LSB-16B	LSB16A_19.5-21.5	007_LSB-17A	008_LSB-17B	LSB17A_14-16	011_LSB-18A	012_LSB-18B	LSB18A_16.5-18.5	019_LSB-19A	020_LSB-19B										
					Sample Date	05/08/2018	05/08/2018	04/19/2023	05/08/2018	05/08/2018	05/08/2018	04/19/2023	05/08/2018	05/08/2018	04/19/2023	05/08/2018	05/08/2018	04/19/2023	05/08/2018	05/08/2018	04/19/2023	05/08/2018	05/08/2018	04/19/2023	05/08/2018	05/08/2018	04/19/2023	05/08/2018	05/08/2018	04/19/2023
Perfluorooctanoic acids					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result		
11-Chloroicosafuoro-3-Oxaundecane-1-Sulfonic Acid	763051-92-9	NS	NS	NS	mg/kg	NA	NA	<0.000782 U	NA	NA	NA	<0.000798 U	NA	NA	<0.000796 U	NA	NA	<0.000797 U	NA	NA	<0.000797 U	NA	NA	<0.000797 U	NA	NA	<0.000797 U	NA	NA	
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	6HPFHXA	NS	NS	NS	mg/kg	NA	NA	<0.000782 U	NA	NA	NA	<0.000798 U	NA	NA	<0.000796 U	NA	NA	<0.000797 U	NA	NA	<0.000797 U	NA	NA	<0.000797 U	NA	NA	<0.000797 U	NA	NA	
3:3 FTCA	356-02-5	NS	NS	NS	mg/kg	NA	NA	<0.000978 U	NA	NA	NA	<0.000998 U	NA	NA	<0.000996 U	NA	NA	<0.000996 U	NA	NA	<0.000996 U	NA	NA	<0.000996 U	NA	NA	<0.000996 U	NA	NA	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	NS	NS	NS	mg/kg	NA	NA	<0.000782 U	NA	NA	NA	<0.000798 U	NA	NA	<0.000796 U	NA	NA	<0.000797 U	NA	NA	<0.000797 U	NA	NA	<0.000797 U	NA	NA	<0.000797 U	NA	NA	
5:3 FTCA	914637-49-3	NS	NS	NS	mg/kg	NA	NA	<0.00489 U	NA	NA	NA	<0.00499 U	NA	NA	<0.00498 U	NA	NA	<0.00498 U	NA	NA	<0.00498 U	NA	NA	<0.00498 U	NA	NA	<0.00498 U	NA	NA	
7:3 FTCA	812-70-4	NS	NS	NS	mg/kg	NA	NA	<0.00489 U	NA	NA	NA	<0.00499 U	NA	NA	<0.00498 U	NA	NA	<0.00498 U	NA	NA	<0.00498 U	NA	NA	<0.00498 U	NA	NA	<0.00498 U	NA	NA	
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	756426-58-1	NS	NS	NS	mg/kg	NA	NA	<0.000782 U	NA	NA	NA	<0.000798 U	NA	NA	<0.000796 U	NA	NA	<0.000797 U	NA	NA	<0.000797 U	NA	NA	<0.000797 U	NA	NA	<0.000797 U	NA	NA	
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	NS	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	
N-ethylperfluorooctane sulfonamide	4151-50-2	NS	NS	NS	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	
N-ethylperfluorooctane sulfonamide	1691-99-2	NS	NS	NS	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	NS	NS	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	
N-methylperfluorooctane sulfonamide	31506-32-8	NS	NS	NS	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	
N-methylperfluorooctanesulfonamidol	24448-09-7	NS	NS	NS	mg/kg	NA	NA	<0.00196 U	NA	NA	NA	<0.002 U	NA	NA	<0.00199 U	NA	NA	<0.00199 U	NA	NA	<0.00199 U	NA	NA	<0.00199 U	NA	NA	<0.00199 U	NA	NA	
Nonafluoro-3,6-dioxahexanoic acid	151772-58-6	NS	NS	NS	mg/kg	NA	NA	<0.000391 U	NA	NA	NA	<0.000399 U	NA	NA	<0.000398 U	NA	NA	<0.000398 U	NA	NA	<0.000398 U	NA	NA	<0.000398 U	NA	NA	<0.000398 U	NA	NA	
Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7	NS	NS	NS	mg/kg	NA	NA	<0.000391 U	NA	NA	NA	<0.000399 U	NA	NA	<0.000398 U	NA	NA	<0.000398 U	NA	NA	<0.000398 U	NA	NA	<0.000398 U	NA	NA	<0.000398 U	NA	NA	
Perfluoro-3-methoxypropanoic acid	377-73-1	NS	NS	NS	mg/kg	NA	NA	<0.000391 U	NA	NA	NA	<0.000399 U	NA	NA	<0.000398 U	NA	NA	<0.000398 U	NA	NA	<0.000398 U	NA	NA	<0.000398 U	NA	NA	<0.000398 U	NA	NA	
Perfluoro-4-methoxybutanoic acid	863090-89-5	NS	NS	NS	mg/kg	NA	NA	<0.000391 U	NA	NA	NA	<0.000399 U	NA	NA	<0.000398 U	NA	NA	<0.000398 U	NA	NA	<0.000398 U	NA	NA	<0.000398 U	NA	NA	<0.000398 U	NA	NA	
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	mg/kg	NA	NA	<0.000782 U	NA	NA	NA	<0.000798 U	NA	NA	<0.000796 U	NA	NA	<0.000797 U	NA	NA	<0.000797 U	NA	NA	<0.000797 U	NA	NA	<0.000797 U	NA	NA	
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	
Perfluorododecanesulfonic Acid (PFDOS)	79780-39-5	NS	NS	NS	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	NS	NS	NS	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.00088	0.001	0.044	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	0.000112 J	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0008	0.033	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	
Perfluoropentanesulfonic Acid	2706-91-4	NS	NS	NS	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	mg/kg	NA	NA	<0.000391 U	NA	NA	NA	<0.000399 U	NA	NA	<0.000398 U	NA	NA	<0.000398 U	NA	NA	<0.000398 U	NA	NA	<0.000398 U	NA	NA	<0.000398 U	NA	NA	
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA	NA	
Perfluorotridecanoic Acid (PFTDA)	72629-94-8	NS	NS	NS	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	<0.0002 U	NA	NA	<0.000199 U	NA	NA	<0.000199 U	NA											

Table 2
Supplemental Remedial Investigation Report
Soil Sample Analytical Results

12096 Flatlands Avenue
Brooklyn, New York
NYSDEC BCP Site No.: C224290
Langan Project No.: 100688802

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted-Residential SCOs	Location																
					Sample Name	LSB-19	LSB-20	LSB-20	LSB-20	LSB-20	LSB-20	LSB-21	LSB-21	LSB-21	LSB-22	LSB-22	LSB-22	LSB-23	LSB-23	LSB-23	
					Sample Date	LSB19A_18-20	009_LSB-20A	010_LSB-20B	LSB20A_12-14	LSB20A_15-17	DUP01_04192023	066_LSB-21A	067_LSB-21B	068_LSB-21C	063_LSB-22A	064_LSB-22B	065_LSB-22C	069_LSB-23A	070_LSB-23B	071_LSB-23C	
					Sample Depth	18-20	0-2	9-11	12-14	15-17	15-17	0-2	5-7	12-14	0-2	4-6	13-15	0-2	8-10	18-20	
Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result					
Volatiles Organic Compounds																					
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	mg/kg	<0.001 U	<0.0026 U	<0.0034 U	<0.00055 U	<0.00061 U	<0.00054 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	mg/kg	<0.001 U	<0.0026 U	<0.0034 U	<0.00055 U	<0.00061 U	<0.00054 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	mg/kg	<0.001 U	<0.0026 U	<0.0034 U	<0.00055 U	<0.00061 U	<0.00054 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	mg/kg	NA	<0.0026 U	<0.0034 U	NA	NA	NA	<0.0021 UJ	<0.0031 UJ	<0.0024 UJ	<0.0019 UJ	<0.0023 UJ	<0.0026 UJ	<0.0019 UJ	<0.002 UJ	<0.0027 UJ	
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	mg/kg	<0.0021 U	<0.0026 U	<0.0034 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
1,1-Dichloroethane	75-34-3	0.27	0.27	26	mg/kg	<0.0021 U	<0.0026 U	<0.0034 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
1,1-Dichloroethene	75-35-4	0.33	0.33	100	mg/kg	<0.0021 U	<0.0026 U	<0.0034 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0021 UJ	<0.0031 UJ	<0.0024 UJ	<0.0019 UJ	<0.0023 UJ	<0.0026 UJ	<0.0019 UJ	<0.002 UJ	<0.0027 UJ	
1,1-Dichloropropene	563-58-6	NS	NS	NS	mg/kg	<0.001 U	<0.0026 U	<0.0034 U	<0.00055 U	<0.00061 U	<0.00054 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	mg/kg	<0.0042 U	<0.0026 U	<0.0034 U	<0.0022 U	<0.0024 U	<0.0022 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	mg/kg	<0.0042 U	<0.0026 U	<0.0034 U	<0.0022 U	<0.0024 U	<0.0022 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	NS	mg/kg	0.0022 J	NA	NA	<0.0022 U	<0.0024 U	<0.0022 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.0042 U	<0.0026 U	<0.0034 U	<0.0022 U	<0.0024 U	<0.0022 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	52	mg/kg	<0.0042 U	<0.0026 UJ	<0.0034 UJ	<0.0022 U	<0.0024 U	<0.0022 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	0.0068	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	mg/kg	<0.0062 U	<0.0026 U	<0.0034 U	<0.0033 U	<0.0036 U	<0.0032 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	mg/kg	<0.0021 U	<0.0026 U	<0.0034 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	mg/kg	<0.0042 U	<0.0026 U	<0.0034 U	<0.0022 U	<0.0024 U	<0.0022 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	mg/kg	<0.0021 U	<0.0026 U	<0.0034 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
1,2-Dichloropropane	78-87-5	NS	NS	NS	mg/kg	<0.0021 U	<0.0026 U	<0.0034 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	mg/kg	<0.0042 U	<0.0026 UJ	<0.0034 UJ	<0.0022 U	<0.0024 U	<0.0022 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	0.0036 J	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	mg/kg	<0.0042 U	<0.0026 U	<0.0034 U	<0.0022 U	<0.0024 U	<0.0022 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
1,3-Dichloropropane	142-28-9	NS	NS	NS	mg/kg	<0.0042 U	<0.0026 UJ	<0.0034 UJ	<0.0022 U	<0.0024 U	<0.0022 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	mg/kg	<0.0042 U	<0.0026 U	<0.0034 U	<0.0022 U	<0.0024 U	<0.0022 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
1,4-Diethyl Benzene	105-05-5	NS	NS	NS	mg/kg	<0.0042 U	NA	NA	<0.0022 U	<0.0024 U	<0.0022 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	mg/kg	<0.17 U	<0.051 UJ	<0.068 UJ	<0.088 UJ	<0.097 U	<0.086 U	<0.042 U	<0.062 U	<0.047 U	<0.039 U	<0.046 U	<0.052 U	<0.044 U	<0.04 U	<0.054 U	
2,2-Dichloropropane	594-20-7	NS	NS	NS	mg/kg	<0.0042 U	<0.0026 U	<0.0034 U	<0.0022 U	<0.0024 U	<0.0022 U	<0.0021 UJ	<0.0031 UJ	<0.0024 UJ	<0.0019 UJ	<0.0023 UJ	<0.0026 UJ	<0.0019 UJ	<0.002 UJ	<0.0027 UJ	
2-Chlorotoluene	95-49-8	NS	NS	NS	mg/kg	<0.0042 U	<0.0026 U	<0.0034 U	<0.0022 U	<0.0024 U	<0.0022 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
2-Hexanone (MBK)	591-78-6	NS	NS	NS	mg/kg	<0.021 U	<0.0026 U	<0.0034 U	<0.011 U	<0.012 U	<0.011 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	0.0024 J	<0.0026 U	<0.0019 U	0.0051	<0.0027 U	
4-Chlorotoluene	106-43-4	NS	NS	NS	mg/kg	<0.0042 U	<0.0026 U	<0.0034 U	<0.0022 U	<0.0024 U	<0.0022 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
4-Ethyltoluene	622-96-8	NS	NS	NS	mg/kg	<0.0042 U	NA	NA	<0.0022 U	<0.0024 U	<0.0022 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Acetone	67-64-1	0.05	0.05	100	mg/kg	0.11	0.014 J	0.0096 J	0.0085 J	0.02	0.021	<0.0042 UJ	<0.0062 UJ	0.029 J	0.05 J	0.031 J	<0.0077 U	<0.0052 U	<0.0039 U	0.12 J	
Acrolein	107-02-8	NS	NS	NS	mg/kg	NA	<0.0051 U	<0.0068 U	NA	NA	NA	<0.0042 UJ	<0.0062 UJ	<0.0047 UJ	<0.0039 UJ	<0.0046 UJ	<0.0052 UJ	<0.0039 UJ	<0.004 UJ	<0.0054 UJ	
Acrylonitrile	107-13-1	NS	NS	NS	mg/kg	<0.0083 U	<0.0026 U	<0.0034 U	<0.0044 U	<0.0048 U	<0.0043 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
Benzene	71-43-2	0.06	0.06	4.8	mg/kg	<0.001 U	<0.0026 U	<0.0034 U	<0.00055 U	<0.00061 U	<0.00054 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
Bromobenzene	108-86-1	NS	NS	NS	mg/kg	<0.0042 U	<0.0026 U	<0.0034 U	<0.0022 U	<0.0024 U	<0.0022 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
Bromochloromethane	74-97-5	NS	NS	NS	mg/kg	<0.0042 U	<0.0026 U	<0.0034 U	<0.0022 U	<0.0024 U	<0.0022 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
Bromodichloromethane	75-27-4	NS	NS	NS	mg/kg	<0.001 U	<0.0026 U	<0.0034 U	<0.00055 U	<0.00061 U	<0.00054 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
Bromoform	75-25-2	NS	NS	NS	mg/kg	<0.0083 U	<0.0026 U	<0.0034 U	<0.0044 U	<0.0048 U	<0.0043 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
Bromomethane	74-83-9	NS	NS	NS	mg/kg	<0.0042 U	<0.0026 U	<0.0034 U	<0.0022 U	<0.0024 U	<0.0022 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
Carbon Disulfide	75-15-0	NS	NS	NS	mg/kg	0.01 J	<0.0026 U	<0.0034 U	<0.011 U	<0.012 U	<0.011 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	0.0032 J	
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	mg/kg	<0.0021 U	<0.0026 U	<0.0034 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0021 U	<0.0031 U	<0.0024 U	<0.0019 U	<0.0023 U	<0.0026 U	<0.0019 U	<0.002 U	<0.0027 U	
Chlorobenzene	108-90-7	1.1	1																		

Table 2
Supplemental Remedial Investigation Report
Soil Sample Analytical Results

12096 Flatlands Avenue
Brooklyn, New York
NYSDEC BCP Site No.: C224290
Langan Project No.: 100688802

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted-Residential SCOs	Location																
					Sample Name	LSB-19	LSB-20	LSB-20	LSB-20	LSB-20	LSB-20	LSB-21	LSB-21	LSB-21	LSB-22	LSB-22	LSB-22	LSB-23	LSB-23	LSB-23	
					Sample Date	LSB19A_18-20	009_LSB-20A	010_LSB-20B	LSB20A_12-14	LSB20A_15-17	DUP01_04192023	066_LSB-21A	067_LSB-21B	068_LSB-21C	063_LSB-22A	064_LSB-22B	065_LSB-22C	069_LSB-23A	070_LSB-23B	071_LSB-23C	
Semi-Volatile Organic Compounds					Sample Depth	18-20	0-2	9-11	12-14	15-17	15-17	0-2	5-7	12-14	0-2	4-6	13-15	0-2	8-10	18-20	
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	mg/kg	<0.34 U	<0.0894 U	<0.099 U	<0.21 U	<0.22 U	<0.22 U	<0.0923 U	<0.103 U	<0.0969 U	<0.0888 U	<0.434 U	<0.11 U	<0.663 U	<0.859 U	<0.11 U	
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.34 U	<0.0448 U	<0.0496 U	<0.21 U	<0.22 U	<0.22 U	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	mg/kg	<0.34 U	<0.0448 U	<0.0496 U	<0.21 U	<0.22 U	<0.22 U	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	ma/ka	NA	<0.0448 UJ	<0.0496 UJ	NA	NA	NA	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	mg/kg	<0.34 U	<0.0448 U	<0.0496 U	<0.21 U	<0.22 U	<0.22 U	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	mg/kg	<0.34 U	<0.0448 U	<0.0496 U	<0.21 U	<0.22 U	<0.22 U	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	mg/kg	<0.051 U	NA	NA	<0.032 U	<0.034 U	<0.032 U	<0.00971 U	<0.00952 U	<0.00962 U	<0.0098 U	<0.0098 U	<0.00962 U	<0.00917 U	<0.00935 U	<0.00962 U	
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	mg/kg	NA	<0.0894 U	<0.099 U	NA	NA	NA	<0.0923 U	<0.103 U	<0.0969 U	<0.0888 U	<0.434 UJ	<0.11 U	<0.663 U	<0.859 U	<0.11 U	
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	ma/ka	<0.34 U	<0.0448 U	<0.0496 U	<0.21 U	<0.22 U	<0.22 U	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	mg/kg	<0.2 U	<0.0448 U	<0.0496 U	<0.13 U	<0.13 U	<0.13 U	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
2,4-Dichlorophenol	120-83-2	NS	NS	NS	mg/kg	<0.31 U	<0.0448 U	<0.0496 U	<0.19 U	<0.2 U	<0.19 U	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
2,4-Dimethylphenol	105-67-9	NS	NS	NS	mg/kg	<0.34 U	<0.0448 U	<0.0496 U	<0.21 U	<0.22 U	<0.22 U	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
2,4-Dinitrophenol	51-28-5	NS	NS	NS	mg/kg	<1.6 U	<0.0894 UJ	<0.099 UJ	<1 U	<1.1 U	<1 U	<0.0923 UJ	<0.103 UJ	<0.0969 UJ	<0.0888 UJ	<0.434 UJ	<0.11 UJ	<0.663 UJ	<0.859 UJ	<0.11 UJ	
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	ma/ka	<0.34 U	<0.0448 UJ	<0.0496 UJ	<0.21 U	<0.22 U	<0.22 U	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	mg/kg	<0.34 U	<0.0448 UJ	<0.0496 UJ	<0.21 U	<0.22 U	<0.22 U	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
2-Chloronaphthalene	91-58-7	NS	NS	NS	mg/kg	<0.34 U	<0.0448 U	<0.0496 U	<0.21 U	<0.22 U	<0.22 U	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
2-Chlorophenol	95-57-8	NS	NS	NS	mg/kg	<0.34 U	<0.0448 U	<0.0496 U	<0.21 U	<0.22 U	<0.22 U	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
2-Methylnaphthalene	91-57-6	NS	NS	NS	mg/kg	0.053 J	<0.0448 U	<0.0496 U	<0.26 U	<0.27 U	<0.26 U	<0.0463 U	<0.0518 U	0.0961 JD	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	ma/ka	<0.34 U	<0.0448 U	<0.0496 U	<0.21 U	<0.22 U	<0.22 U	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
2-Nitroaniline	88-74-4	NS	NS	NS	mg/kg	<0.34 U	<0.0894 UJ	<0.099 UJ	<0.21 U	<0.22 U	<0.22 U	<0.0923 U	<0.103 U	<0.0969 U	<0.0888 U	<0.434 U	<0.11 U	<0.663 U	<0.859 U	<0.11 U	
2-Nitrophenol	88-75-5	NS	NS	NS	mg/kg	<0.74 U	<0.0448 UJ	<0.0496 UJ	<0.46 U	<0.48 U	<0.47 U	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	mg/kg	0.26 J	<0.0448 U	<0.0496 U	<0.31 U	<0.32 U	<0.31 U	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	0.156 D	<0.332 U	<0.43 U	<0.0552 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	mg/kg	<0.34 U	<0.0448 U	<0.0496 U	<0.21 U	<0.22 U	<0.22 U	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
3-Nitroaniline	99-09-2	NS	NS	NS	ma/ka	<0.34 U	<0.0894 UJ	<0.099 UJ	<0.21 U	<0.22 U	<0.22 U	<0.0923 U	<0.103 U	<0.0969 U	<0.0888 U	<0.434 U	<0.11 U	<0.663 U	<0.859 U	<0.11 U	
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	mg/kg	<0.89 U	<0.0894 UJ	<0.099 UJ	<0.56 U	<0.58 U	<0.56 U	<0.0923 U	<0.103 U	<0.0969 U	<0.0888 U	<0.434 UJ	<0.11 U	<0.663 U	<0.859 U	<0.11 U	
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	mg/kg	<0.34 U	<0.0448 U	<0.0496 U	<0.21 U	<0.22 U	<0.22 U	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	mg/kg	<0.34 U	<0.0448 U	<0.0496 U	<0.21 U	<0.22 U	<0.22 U	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
4-Chloroaniline	106-47-8	NS	NS	NS	ma/ka	<0.34 UJ	<0.0448 U	<0.0496 U	<0.21 UJ	<0.22 UJ	<0.22 UJ	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	ma/ka	<0.34 U	<0.0448 U	<0.0496 U	<0.21 U	<0.22 U	<0.22 U	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
4-Nitroaniline	100-01-6	NS	NS	NS	mg/kg	<0.34 U	<0.0894 UJ	<0.099 UJ	<0.21 U	<0.22 U	<0.22 U	<0.0923 U	<0.103 U	<0.0969 U	<0.0888 U	<0.434 U	<0.11 U	<0.663 U	<0.859 U	<0.11 U	
4-Nitrophenol	100-02-7	NS	NS	NS	mg/kg	<0.48 U	<0.0894 U	<0.099 U	<0.3 U	<0.31 U	<0.3 U	<0.0923 U	<0.103 U	<0.0969 U	<0.0888 U	<0.434 UJ	<0.11 U	<0.663 U	<0.859 U	<0.11 U	
Acenaphthene	83-32-9	20	98	100	mg/kg	<0.27 U	<0.0448 U	<0.0496 U	<0.17 U	<0.18 U	0.032 J	<0.0463 U	<0.0518 U	0.122 D	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
Acenaphthylene	208-96-8	100	107	100	ma/ka	<0.27 U	0.0879 JDE	<0.0496 U	<0.17 U	<0.18 U	0.039 J	0.258 D	<0.0518 U	0.0899 JD	0.0468 JD	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
Acetophenone	98-86-2	NS	NS	NS	ma/ka	<0.34 U	<0.0448 U	<0.0496 U	<0.21 U	<0.22 U	<0.22 U	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	mg/kg	NA	<0.179 U	<0.198 U	NA	NA	NA	<0.185 U	<0.207 U	<0.194 U	<0.178 U	<0.87 U	<0.22 U	<1.33 U	<1.72 U	<0.221 U	
Anthracene	120-12-7	100	1000	100	mg/kg	<0.2 U	0.132 DE	<0.0496 U	<0.13 U	<0.13 U	0.22	0.39 D	<0.0518 U	0.358 D	0.0461 JD	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
Atrazine	1912-24-9	NS	NS	NS	mg/kg	NA	<0.0448 U	<0.0496 U	NA	NA	NA	<0.0463 U	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	<0.0552 U	
Benzaldehyde	100-52-7	NS	NS	NS	ma/ka	NA	<0.0448 UJ	<0.0496 UJ	NA	NA	NA	0.0649 JD	<0.0518 U	<0.0486 U	<0.0445 U	<0.218 U	<0.0551 U	<0.332 U	<0.43 U	1.14 D	
Benzidine	92-87-5	NS	NS	NS	ma/ka	NA	<0.179 UJ	<0.198 UJ	NA	NA	NA	<0.185 UJ	<0.207 UJ	<0.194 UJ	<0.178 UJ	<0.87 UJ	<0.22 UJ	<1.33 UJ	<1.72 UJ	<0.221 UJ	
Benzo(a)anthracene	56-55-3	1	1	1	mg/kg	0.12 J	0.565 DE	0.122 DE	0.14	<0.13 UJ	0.39 J	0.885 D	0.0587 JD	0.635 D	0.221 D	0.358 JD	0.0721 JD	0.863 D	<0.43 U	0.0687 JD	
Benzo(a)pyrene	50-32-8	1	22	1	mg/kg	0.096 J	0.588 DE	0.112 DE	0.12 J	<0.18 U	0.3	1.09 D	0.0678 JD	0.662 D	0.285 D	0.413 JD	0.0703 JD	0.911 D	<		

Table 2
Supplemental Remedial Investigation Report
Soil Sample Analytical Results

12096 Flatlands Avenue
Brooklyn, New York
NYSDEC BCP Site No.: C224290
Langan Project No.: 100688802

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Residential SCOs	Location																
					Sample Name	LSB-19	LSB-20	LSB-20	LSB-20	LSB-20	LSB-20	LSB-21	LSB-21	LSB-21	LSB-22	LSB-22	LSB-22	LSB-23	LSB-23	LSB-23	
					Sample Date	LSB19A_18-20	009_LSB-20A	010_LSB-20B	LSB20A_12-14	LSB20A_15-17	DUP01_04192023	066_LSB-21A	067_LSB-21B	068_LSB-21C	063_LSB-22A	064_LSB-22B	065_LSB-22C	069_LSB-23A	070_LSB-23B	071_LSB-23C	
					Sample Depth	18-20	0-2	9-11	12-14	15-17	15-17	0-2	5-7	12-14	0-2	4-6	13-15	0-2	8-10	18-20	
Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result					
Pesticides																					
4,4'-DDD	72-54-8	0.0033	14	13	mg/kg	<0.00314 U	<0.00177 UJ	<0.00196 U	<0.00201 U	<0.00216 U	<0.00211 U	<0.00184 U	<0.00203 U	<0.0019 U	<0.00173 U	0.00928 D	<0.00217 U	<0.00175 U	<0.00165 U	<0.00219 U	
4,4'-DDE	72-55-9	0.0033	17	8.9	mg/kg	<0.00314 U	<0.00177 UJ	<0.00196 U	<0.00201 U	<0.00216 U	0.000841 J	<0.00184 U	<0.00203 U	<0.0019 U	<0.00173 U	0.0092 D	<0.00217 U	<0.00175 U	<0.00165 U	<0.00219 U	
4,4'-DDT	50-29-3	0.0033	136	7.9	mg/kg	<0.00314 U	0.0112 J	<0.00196 U	<0.00201 U	<0.00216 U	<0.00211 U	0.0066 D	<0.00203 U	<0.0019 U	0.00506 D	0.0447 D	<0.00217 U	0.00489 D	0.00601 D	<0.00219 U	
Aldrin	309-00-2	0.005	0.19	0.097	mg/kg	<0.00314 U	<0.00177 UJ	<0.00196 U	<0.00201 U	<0.00216 U	<0.00211 U	<0.00184 U	<0.00203 U	<0.0019 U	<0.00173 U	<0.00169 U	<0.00217 U	<0.00175 U	<0.00165 U	<0.00219 U	
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	mg/kg	<0.00131 U	<0.00177 UJ	<0.00196 U	<0.000837 U	<0.000898 U	<0.00088 U	<0.00184 U	<0.00203 U	<0.0019 U	<0.00173 U	<0.00169 U	<0.00217 U	<0.00175 U	<0.00165 U	<0.00219 U	
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	mg/kg	<0.00393 U	0.0639 J	<0.00196 U	0.00498 J	0.00159 J	<0.00264 U	0.025 D	<0.00203 U	<0.0019 U	0.0418 D	<0.00169 U	<0.00217 U	0.0139 D	<0.00165 U	<0.00219 U	
Alpha Endosulfan	959-98-8	2.4	102	24	mg/kg	<0.00314 U	<0.00177 UJ	<0.00196 U	<0.00201 U	<0.00216 U	<0.00211 U	<0.00184 U	<0.00203 U	<0.0019 U	<0.00173 U	<0.00169 U	<0.00217 U	<0.00175 U	<0.00165 U	<0.00219 U	
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	mg/kg	<0.00314 U	<0.00177 UJ	<0.00196 U	<0.00201 U	<0.00216 U	<0.00211 U	<0.00184 U	<0.00203 U	<0.0019 U	<0.00173 U	<0.00169 U	<0.00217 U	<0.00175 U	<0.00165 U	<0.00219 U	
Beta Endosulfan	33213-65-9	2.4	102	24	mg/kg	<0.00314 U	<0.00177 UJ	<0.00196 U	<0.00201 U	<0.00216 U	<0.00211 U	<0.00184 U	<0.00203 U	<0.0019 U	<0.00173 U	<0.00169 U	<0.00217 U	<0.00175 U	<0.00165 U	<0.00219 U	
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	mg/kg	<0.0262 U	0.102 J	<0.0391 U	0.0371 J	<0.0176 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	mg/kg	<0.00314 U	<0.00177 UJ	<0.00196 U	<0.00201 U	<0.00216 U	<0.00211 U	<0.00184 U	<0.00203 U	<0.0019 U	<0.00173 U	<0.00169 U	<0.00217 U	<0.00175 U	<0.00165 U	<0.00219 U	
Dieldrin	60-57-1	0.005	0.1	0.2	mg/kg	<0.00196 U	0.00434 J	<0.00196 U	<0.00126 U	<0.00135 U	<0.00132 U	<0.00184 U	<0.00203 U	<0.0019 U	<0.00173 U	0.00944 D	<0.00169 U	<0.00217 U	<0.00175 U	<0.00165 U	<0.00219 U
Endosulfan Sulfate	1031-07-8	2.4	1000	24	mg/kg	<0.00131 U	<0.00177 UJ	<0.00196 U	<0.000837 U	<0.000898 U	<0.00088 U	<0.00184 U	<0.00203 U	<0.0019 U	<0.00173 U	<0.00169 U	<0.00217 U	<0.00175 U	<0.00165 U	<0.00219 U	
Endrin	72-20-8	0.014	0.06	11	mg/kg	<0.00131 U	<0.00177 UJ	<0.00196 U	<0.000837 U	<0.000898 U	<0.00088 U	<0.00184 U	<0.00203 U	<0.0019 U	<0.00173 U	<0.00169 U	<0.00217 U	<0.00175 U	<0.00165 U	<0.00219 U	
Endrin Aldehyde	7421-93-4	NS	NS	NS	mg/kg	<0.00393 U	<0.00177 UJ	<0.00196 U	<0.00251 U	<0.00269 U	<0.00264 U	<0.00184 U	<0.00203 U	<0.0019 U	<0.00173 U	<0.00169 U	<0.00217 U	<0.00175 U	<0.00165 U	<0.00219 U	
Endrin Ketone	53494-70-5	NS	NS	NS	mg/kg	<0.00314 U	<0.00177 UJ	<0.00196 U	<0.00201 U	<0.00216 U	<0.00211 U	<0.00184 U	<0.00203 U	<0.0019 U	<0.00173 U	<0.00169 U	<0.00217 U	<0.00175 U	<0.00165 U	<0.00219 U	
Gamma Bhc (Lindane)	58-89-9	0.01	0.1	1.3	mg/kg	<0.00131 U	<0.00177 UJ	<0.00196 U	<0.000837 U	<0.000898 U	<0.00088 U	<0.00184 U	<0.00203 U	<0.0019 U	<0.00173 U	<0.00169 U	<0.00217 U	<0.00175 U	<0.00165 U	<0.00219 U	
Gamma Chlordane (Trans)	5103-74-2	NS	NS	NS	mg/kg	<0.00393 U	NA	NA	0.00763 J	0.000764 J	<0.00264 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Gamma-Chlordane	5566-34-7	NS	NS	NS	mg/kg	NA	0.0384 J	<0.00196 U	NA	NA	NA	0.0198 D	<0.00203 U	<0.0019 U	0.0286 D	<0.00169 U	<0.00217 U	0.0136 D	<0.00165 U	<0.00219 U	
Heptachlor	76-44-8	0.042	0.38	2.1	mg/kg	<0.00157 U	0.00862 J	<0.00196 U	0.00103	<0.00108 U	<0.00106 U	<0.00184 U	<0.00203 U	<0.0019 U	0.00461 D	<0.00169 U	<0.00217 U	<0.00175 U	<0.00165 U	<0.00219 U	
Heptachlor Epoxide	1024-57-3	NS	NS	NS	mg/kg	<0.0059 U	<0.00177 UJ	<0.00196 U	<0.00376 U	<0.00404 U	<0.00396 U	<0.00184 U	<0.00203 U	<0.0019 U	<0.00173 U	<0.00169 U	<0.00217 U	<0.00175 U	<0.00165 U	<0.00219 U	
Methoxychlor	72-43-5	NS	NS	NS	mg/kg	<0.0059 U	<0.00886 UJ	<0.00978 U	<0.00376 U	<0.00404 U	<0.00396 U	<0.00184 U	<0.00203 U	<0.0019 U	<0.00173 U	<0.00169 U	<0.00217 U	<0.00175 U	<0.00165 U	<0.00219 U	
Toxaphene	8001-35-2	NS	NS	NS	mg/kg	<0.059 U	<0.0897 UJ	<0.099 U	<0.0376 U	<0.0404 U	<0.0396 U	<0.184 U	<0.203 U	<0.19 U	<0.173 U	<0.169 U	<0.217 U	<0.175 U	<0.165 U	<0.219 U	
Herbicides																					
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	mg/kg	<0.338 U	NA	NA	<0.213 U	<0.227 U	<0.218 U	<0.0223 U	<0.0246 U	<0.0229 U	<0.0213 U	<0.0207 U	<0.0264 U	<0.0209 U	<0.0205 U	<0.0263 U	
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	mg/kg	<0.338 U	NA	NA	<0.213 U	<0.227 U	<0.218 U	<0.0223 U	<0.0246 U	<0.0229 U	<0.0213 U	<0.0207 U	<0.0264 U	<0.0209 U	<0.0205 U	<0.0263 U	
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	mg/kg	<0.338 U	NA	NA	<0.213 U	<0.227 U	<0.218 U	<0.0223 U	<0.0246 U	<0.0229 U	<0.0213 U	<0.0207 U	<0.0264 U	<0.0209 U	<0.0205 U	<0.0263 U	
Polychlorinated Biphenyl																					
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	mg/kg	<0.0978 U	<0.0179 U	<0.0198 U	<0.0618 U	<0.0641 U	<0.0661 U	<0.0186 U	<0.0205 U	<0.0192 U	<0.0175 U	<0.0854 U	<0.0219 U	<0.0176 U	<0.0167 U	<0.0221 U	
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	mg/kg	<0.0978 U	<0.0179 U	<0.0198 U	<0.0618 U	<0.0641 U	<0.0661 U	<0.0186 U	<0.0205 U	<0.0192 U	<0.0175 U	<0.0854 U	<0.0219 U	<0.0176 U	<0.0167 U	<0.0221 U	
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	mg/kg	<0.0978 U	<0.0179 U	<0.0198 U	<0.0618 U	<0.0641 U	<0.0661 U	<0.0186 U	<0.0205 U	<0.0192 U	<0.0175 U	<0.0854 U	<0.0219 U	<0.0176 U	<0.0167 U	<0.0221 U	
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	mg/kg	<0.0978 U	<0.0179 U	<0.0198 U	<0.0618 U	<0.0641 U	<0.0661 U	<0.0186 U	<0.0205 U	<0.0192 U	<0.0175 U	<0.0854 U	<0.0219 U	<0.0176 U	<0.0167 U	<0.0221 U	
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	mg/kg	<0.0978 U	<0.0179 U	<0.0198 U	<0.0618 U	<0.0641 U	<0.0661 U	<0.0186 U	<0.0205 U	<0.0192 U	<0.0175 U	<0.0854 U	<0.0219 U	<0.0176 U	<0.0167 U	<0.0221 U	
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	mg/kg	0.027 J	<0.0179 U	<0.0198 U	0.0424 J	<0.0641 U	<0.0661 U	<0.0186 U	<0.0205 U	<0.0192 U	<0.0175 U	<0.0854 U	<0.0219 U	<0.0176 U	<0.0167 U	<0.0221 U	
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	mg/kg	0.0221 J	<0.0179 U	<0.0198 U	0.0245 J	<0.0641 U	<0.0661 U	0.0731	<0.0205 U	<0.0192 U	0.0301	0.416 D	<0.0219 U	0.0579	0.0354	<0.0221 U	
PCB-1262 (Aroclor 1262)	37324-23-5	NS	NS	NS	mg/kg	<0.0978 U	NA	NA	<0.0618 U	<0.0641 U	<0.0661 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCB-1268 (Aroclor 1268)	11100-14-4	NS	NS	NS	mg/kg	0.0549 J	NA	NA	0.0242 J	<0.0641 U	<0.0661 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total PCBs	1336-36-3	0.1	3.2	1	mg/kg	0.104 J	<0.0179 U	<0.0198 U	0.0911 J	<0.0641 U	<0.0661 U	0.0731	<0.0205 U	<0.0192 U	0.0301	2.39 D	<0.0219 U	0.0579	0.0354	<0.0221 U	
Metals																					
Aluminum	7429-90-5	NS	NS	NS	mg/kg	3,200	6,690	2,730	3,220	7,330	5,810	6,490	6,270	6,680	5,900	3,760	5,630	7,740	2,590	9,360	
Antimony	7440-36-0	NS	NS	NS	mg/kg	1.86 J	<0.54 U	0.934	1.39 J	0.884 J	1.66 J	<2.8 U	18.5 J	<2.91 U	<2.68 U	<2.61 U	<3.31 U	<2.67 U	<2.58 U	<3.37 U	
Arsenic	7440-38-2	13	16	16	mg/kg	10.2	4.82	<1.19 U	8.13	4.2	6.15	5.68	7.69	3.64	5.67	4.58	10.8	3.98	<1.55 U	5.62	
Barium	7440-39-3	350	820	400	mg/kg	527	101	330	360	132	17.3	231	801	365	85.6	87	1,280	194	44.8	1,190	
Beryllium</																					

Table 2
Supplemental Remedial Investigation Report
Soil Sample Analytical Results

12096 Flatlands Avenue
Brooklyn, New York
NYSDEC BCP Site No.: C224290
Langan Project No.: 100688802

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Residential SCOs	Location															
					Sample Name	LSB-24	LSB-24	LSB-24	LSB-24	LSB-25	LSB-25	LSB-25	LSB-26	LSB-26	LSB-26	LSB-27	LSB-27	LSB-27	LSB-27	
					Sample Date	082_LSB-24A	083_LSB-24B	084_LSB-24C	LSB24A_16-18	074_LSB-25A	075_LSB-25B	076_LSB-25C	072_LSB-26A	073_LSB-26B	081_LSB-26C	085_LSB-27A	086_DUP-4	087_LSB-27B	088_LSB-27C	LSB27A_17-19
					Sample Depth	0-2	3-5	13-15	16-18	0-2	12-14	17-19	0-2	10-12	20.5-22.5	0-2	0-2	7-9	13-15	17-19
Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result				
Volatile Organic Compounds																				
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0011 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0011 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0011 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	NA	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0022 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
1,1-Dichloroethane	75-34-3	0.27	0.27	26	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0022 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
1,1-Dichloroethene	75-35-4	0.33	0.33	100	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0022 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
1,1-Dichloropropene	563-58-6	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0011 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0045 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0045 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	NS	mg/kg	NA	NA	NA	<0.0045 U	NA	NA	NA	NA	NA	NA	NA	NA			
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0045 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	52	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0045 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0067 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0022 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0045 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0022 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
1,2-Dichloropropane	78-87-5	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0022 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0045 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0045 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
1,3-Dichloropropane	142-28-9	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0045 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0045 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
1,4-Diethyl Benzene	105-05-5	NS	NS	NS	mg/kg	NA	NA	NA	<0.0045 U	NA	NA	NA	NA	NA	NA	NA	NA			
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	mg/kg	<0.047 U	<0.039 U	<0.047 U	<0.18 U	<0.041 U	<0.066 U	<0.066 U	<0.05 U	<0.042 U	<0.049 U	<0.041 U	<0.041 U			
2,2-Dichloropropane	594-20-7	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0045 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
2-Chlorotoluene	95-49-8	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0045 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
2-Hexanone (MBK)	591-78-6	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.022 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
4-Chlorotoluene	106-43-4	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0045 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
4-Ethyltoluene	622-96-8	NS	NS	NS	mg/kg	NA	NA	NA	<0.0045 U	NA	NA	NA	NA	NA	NA	NA	NA			
Acetone	67-64-1	0.05	0.05	100	mg/kg	0.0064 J	0.011 J	0.093 J	0.28	0.038 J	0.036 J	0.11 J	0.076 J	0.025 J	0.018 J	0.031 J	0.032 J			
Acrolein	107-02-8	NS	NS	NS	mg/kg	<0.004 U	<0.0039 U	NA	NA	<0.0041 U	<0.0044 U	<0.0066 U	<0.005 U	<0.0042 U	<0.0044 U	<0.0044 U	<0.0044 U			
Acrylonitrile	107-13-1	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0089 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
Benzene	71-43-2	0.06	0.06	4.8	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0011 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
Bromobenzene	108-96-1	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0045 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
Bromochloromethane	74-97-5	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0045 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
Bromodichloromethane	75-27-4	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0011 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
Bromoform	75-25-2	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0089 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
Bromomethane	74-83-9	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0045 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
Carbon Disulfide	75-15-0	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.022 U	0.0021 J	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0022 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
Chlorobenzene	108-90-7	1.1	1.1	100	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0011 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
Chloroethane	75-00-3	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0045 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
Chloroform	67-66-3	0.37	0.37	49	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0034 U	<0.0044 U	<0.0044 U	<0.0066 U	<0.0025 U	<0.0049 U	<0.002 U	<0.002 U	<0.002 U			
Chloromethane	74-87-3	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0089 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	100	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0022 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0011 U	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
Cyclohexane	110-82-7	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	NA	<0.002 U	<0.0022 U	<0.0033 U	<0.0025 U	<0.0021 U	<0.0025 U	<0.002 U	<0.002 U			
Cymene	99-87-6	NS	NS	NS	mg/kg	NA	NA	NA	<0.0022 U	NA	NA	NA	NA	NA	NA	NA	NA			
Dibromochloromethane	124-48-1	NS	NS	NS	mg/kg	<0.002 U	<0.002 U	<0.0023 U	<0.0022 U	<0.002 U	<0.0022 U	<0.0033 U	<0.00							

Table 2
Supplemental Remedial Investigation Report
Soil Sample Analytical Results

12096 Flatlands Avenue
Brooklyn, New York
NYSDEC BCP Site No.: C224290
Langan Project No.: 100688802

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Residential SCOs	Location															
					Sample Name	LSB-24	LSB-24	LSB-24	LSB-24	LSB-25	LSB-25	LSB-25	LSB-26	LSB-26	LSB-26	LSB-27	LSB-27	LSB-27	LSB-27	
					Sample Date	082_LSB-24A	083_LSB-24B	084_LSB-24C	LSB24A_16-18	074_LSB-25A	075_LSB-25B	076_LSB-25C	072_LSB-26A	073_LSB-26B	081_LSB-26C	085_LSB-27A	086_DUP-4	087_LSB-27B	088_LSB-27C	LSB27A_17-19
					Sample Depth	0-2	3-5	13-15	16-18	0-2	12-14	17-19	0-2	10-12	20.5-22.5	0-2	0-2	7-9	13-15	17-19
Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result				
Semi-Volatile Organic Compounds																				
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	mg/kg	<0.093 U	<0.0877 U	<0.0991 U	<0.32 U	<0.0914 U	<0.0901 U	<0.101 U	<0.095 U	<0.0964 U	<0.0988 U	<0.0905 U	<0.0884 U	<0.107 U	<0.0919 U	<0.2 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.0466 U	<0.044 U	<0.0497 U	<0.32 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 U	<0.0453 U	<0.0443 U	<0.0535 U	<0.046 U	<0.2 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	mg/kg	<0.0466 U	<0.044 U	<0.0497 U	<0.32 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 U	<0.0453 U	<0.0443 U	<0.0535 U	<0.046 U	<0.2 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	mg/kg	<0.0466 U	<0.044 U	<0.0497 U	NA	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 U	<0.0453 U	<0.0443 U	<0.0535 U	<0.046 U	NA
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	mg/kg	<0.0466 U	<0.044 U	<0.0497 U	<0.32 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 U	<0.0453 U	<0.0443 U	<0.0535 U	<0.046 U	<0.2 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	mg/kg	<0.0466 U	<0.044 U	<0.0497 U	<0.32 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 U	<0.0453 U	<0.0443 U	<0.0535 U	<0.046 U	<0.2 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	mg/kg	<0.0098 UJ	<0.0098 U	<0.0098 U	<0.048 U	<0.00935 U	<0.00935 U	<0.00943 U	<0.0098 U	<0.00926 U	<0.00943 U	<0.0098 U	<0.0098 U	<0.0098 U	<0.0098 U	<0.0098 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	mg/kg	<0.093 UJ	<0.0877 UJ	<0.0991 UJ	NA	<0.0914 U	<0.0901 U	<0.101 U	<0.095 U	<0.0964 U	<0.0988 UJ	<0.0905 UJ	<0.0884 UJ	<0.107 UJ	<0.0919 UJ	NA
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	mg/kg	<0.0466 U	<0.044 U	<0.0497 U	<0.32 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 U	<0.0453 U	<0.0443 U	<0.0535 U	<0.046 U	<0.2 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	mg/kg	<0.0466 U	<0.044 U	<0.0497 U	<0.19 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 UJ	<0.0453 U	<0.0443 U	<0.0535 U	<0.046 U	<0.12 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	mg/kg	<0.0466 U	<0.044 U	<0.0497 U	<0.29 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 U	<0.0453 U	<0.0443 U	<0.0535 U	<0.046 U	<0.18 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	mg/kg	<0.0466 U	<0.044 U	<0.0497 U	<0.32 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 U	<0.0453 U	<0.0443 U	<0.0535 U	<0.046 U	<0.2 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	mg/kg	<0.093 UJ	<0.0877 UJ	<0.0991 UJ	<1.5 U	<0.0914 UJ	<0.0901 UJ	<0.101 UJ	<0.095 UJ	<0.0964 UJ	<0.0988 UJ	<0.0905 UJ	<0.0884 UJ	<0.107 UJ	<0.0919 UJ	<0.96 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	mg/kg	<0.0466 UJ	<0.044 UJ	<0.0497 UJ	<0.32 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 UJ	<0.0453 UJ	<0.0443 UJ	<0.0535 UJ	<0.046 UJ	<0.2 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	mg/kg	<0.0466 UJ	<0.044 UJ	<0.0497 UJ	<0.32 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 UJ	<0.0453 UJ	<0.0443 UJ	<0.0535 UJ	<0.046 UJ	<0.2 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	mg/kg	<0.0466 U	<0.044 U	<0.0497 U	<0.32 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 U	<0.0453 U	<0.0443 U	<0.0535 U	<0.046 U	<0.2 U
2-Chlorophenol	95-57-8	NS	NS	NS	mg/kg	<0.0466 U	<0.044 U	<0.0497 U	<0.32 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 U	<0.0453 U	<0.0443 U	<0.0535 U	<0.046 U	<0.2 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	mg/kg	<0.0466 U	<0.044 U	<0.0497 U	<0.39 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 U	<0.0453 U	<0.0443 U	<0.0535 U	<0.046 U	<0.24 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	mg/kg	<0.0466 U	<0.044 U	<0.0497 U	<0.32 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 U	<0.0453 U	<0.0443 U	<0.0535 U	<0.046 U	<0.2 U
2-Nitroaniline	88-74-4	NS	NS	NS	mg/kg	<0.093 UJ	<0.0877 UJ	<0.0991 UJ	<0.32 U	<0.0914 U	<0.0901 U	<0.101 U	<0.095 U	<0.0964 U	<0.0988 UJ	<0.0905 UJ	<0.0884 UJ	<0.107 UJ	<0.0919 UJ	<0.2 U
2-Nitrophenol	88-75-5	NS	NS	NS	mg/kg	<0.0466 UJ	<0.044 UJ	<0.0497 UJ	<0.7 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 UJ	<0.0453 UJ	<0.0443 UJ	<0.0535 UJ	<0.046 UJ	<0.43 U
3 & 4 Methylphenol (m & p Cresol)	65794-96-9	0.33	0.33	100	mg/kg	<0.0466 U	<0.044 U	<0.0497 U	<0.46 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 U	<0.0453 U	<0.0443 U	<0.0535 U	<0.046 U	<0.29 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	mg/kg	<0.0466 UJ	<0.044 UJ	<0.0497 UJ	<0.32 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 UJ	<0.0453 UJ	<0.0443 UJ	<0.0535 UJ	<0.046 UJ	<0.2 U
3-Nitroaniline	99-09-2	NS	NS	NS	mg/kg	<0.093 UJ	<0.0877 UJ	<0.0991 UJ	<0.32 U	<0.0914 U	<0.0901 U	<0.101 U	<0.095 U	<0.0964 U	<0.0988 UJ	<0.0905 UJ	<0.0884 UJ	<0.107 UJ	<0.0919 UJ	<0.2 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	mg/kg	<0.093 UJ	<0.0877 UJ	<0.0991 UJ	<0.84 U	<0.0914 U	<0.0901 U	<0.101 U	<0.095 U	<0.0964 U	<0.0988 UJ	<0.0905 UJ	<0.0884 UJ	<0.107 UJ	<0.0919 UJ	<0.52 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	mg/kg	<0.0466 U	<0.044 U	<0.0497 U	<0.32 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 U	<0.0453 U	<0.0443 U	<0.0535 U	<0.046 U	<0.2 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	mg/kg	<0.0466 U	<0.044 U	<0.0497 U	<0.32 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 U	<0.0453 U	<0.0443 U	<0.0535 U	<0.046 U	<0.2 U
4-Chloroaniline	106-47-8	NS	NS	NS	mg/kg	<0.0466 U	<0.044 U	<0.0497 U	<0.32 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 U	<0.0453 U	<0.0443 U	<0.0535 U	<0.046 U	<0.2 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	mg/kg	<0.0466 U	<0.044 U	<0.0497 U	<0.32 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 U	<0.0453 U	<0.0443 U	<0.0535 U	<0.046 U	<0.2 U
4-Nitroaniline	100-01-6	NS	NS	NS	mg/kg	<0.093 UJ	<0.0877 UJ	<0.0991 UJ	<0.32 U	<0.0914 U	<0.0901 U	<0.101 U	<0.095 U	<0.0964 U	<0.0988 UJ	<0.0905 UJ	<0.0884 UJ	<0.107 UJ	<0.0919 UJ	<0.2 U
4-Nitrophenol	100-02-7	NS	NS	NS	mg/kg	<0.093 UJ	<0.0877 UJ	<0.0991 UJ	<0.45 U	<0.0914 U	<0.0901 U	<0.101 U	<0.095 U	<0.0964 U	<0.0988 UJ	<0.0905 UJ	<0.0884 UJ	<0.107 UJ	<0.0919 UJ	<0.28 U
Acenaphthene	83-32-9	20	98	100	mg/kg	<0.0466 U	<0.044 U	<0.0497 U	<0.26 U	0.18 D	0.0727 JD	<0.0504 U	<0.0476 U	0.189 D	0.0884 JD	<0.0453 U	0.0735 JD	<0.0535 U	<0.046 U	<0.16 U
Acenaphthylene	208-96-8	100	107	100	mg/kg	0.0751 JD	<0.044 U	<0.0497 U	<0.26 U	0.0782 JD	0.0533 JD	<0.0504 U	0.0547 JD	0.0801 JD	<0.0495 U	0.0593 JD	0.0799 JD	<0.0535 U	<0.046 U	<0.2 U
Acetophenone	98-86-2	NS	NS	NS	mg/kg	<0.0466 U	<0.044 U	<0.0497 U	<0.32 U	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 U	<0.0453 U	<0.0443 U	<0.0535 U	<0.046 U	<0.16 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	mg/kg	<0.186 U	<0.176 U	<0.198 U	NA	<0.183 U	<0.18 U	<0.201 U	<0.19 U	<0.193 U	<0.198 U	<0.181 U	<0.177 U	<0.214 U	<0.184 U	NA
Anthracene	120-12-7	100	1000	100	mg/kg	0.133 D	0.0659 JD	0.15 D	<0.19 U	0.277 D	0.143 D	0.281 D	0.143 D	0.124 D	0.17 D	0.0982 JD	0.214 D	0.0982 JD	0.0558 JD	<0.12 U
Atrazine	1912-24-9	NS	NS	NS	mg/kg	<0.0466 U	<0.044 U	<0.0497 U	NA	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	<0.0483 U	<0.0495 U	<0.0453 U	<0.0443 U	<0.0535 U	<0.046 U	NA
Benzaldehyde	100-52-7	NS	NS	NS	mg/kg	<0.0466 U	<0.044 U	0.174 D	NA	<0.0458 U	<0.0451 U	<0.0504 U	<0.0476 U	0.687 D	<0.0495 U	<0.0453 U	<0.0443 U	<0.0535 U	<0.046 U	NA
Benzidine	92-87-5	NS	NS	NS	mg/kg	<0.186 U	<0.176 U	<0.198 U	NA	<0.183 UJ	<0.18 UJ	<0.201 UJ	<0.19 UJ	<0.193 UJ	<0.198 UJ	<0.181 UJ	<0.177 UJ	<0.214 UJ	<0.184 UJ	NA
Benzo(a)anthracene	56-55-3	1	1	1	mg/kg	0.408 D	0.182 D	0.435 D	<0.19 U	0.573 D	0.775 D	<0.0504 U	0.445 D	1.03 D	0.489 D	0.438 D	0.546 D	0.454 D	0.171 D	<0.12 U
Benzo(a)pyrene	50-32-8	1	22	1	mg/kg	0.441 D	0.215 D													

Table 2
Supplemental Remedial Investigation Report
Soil Sample Analytical Results

12096 Flatlands Avenue
Brooklyn, New York
NYSDEC BCP Site No.: C224290
Langan Project No.: 100688802

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Residential SCOs	Location															
					Sample Name	LSB-24	LSB-24	LSB-24	LSB-24	LSB-25	LSB-25	LSB-25	LSB-26	LSB-26	LSB-26	LSB-27	LSB-27	LSB-27	LSB-27	
					Sample Date	082_LSB-24A	083_LSB-24B	084_LSB-24C	LSB24A_16-18	074_LSB-25A	075_LSB-25B	076_LSB-25C	072_LSB-26A	073_LSB-26B	081_LSB-26C	085_LSB-27A	086_DUP-4	087_LSB-27B	088_LSB-27C	LSB27A_17-19
					Sample Depth	0-2	3-5	13-15	16-18	0-2	12-14	17-19	0-2	10-12	20.5-22.5	0-2	7-9	13-15	17-19	
Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result					
Pesticides																				
4,4'-DDD	72-54-8	0.0033	14	13	mg/kg	<0.00184 UJ	<0.00173 U	<0.00197 UJ	<0.00294 U	0.00622 D	<0.00179 U	<0.00198 U	0.0148 D	0.0118 D	0.00977 D	<0.00179 U	<0.00177 U	<0.00211 U	<0.00184 U	<0.00184 U
4,4'-DDE	72-55-9	0.0033	17	8.9	mg/kg	<0.00184 UJ	<0.00173 U	<0.00197 UJ	<0.00294 U	<0.00185 U	<0.00179 U	<0.00198 U	<0.00189 U	<0.00189 U	<0.00197 U	<0.00179 U	<0.00177 U	<0.00211 U	<0.00184 U	<0.00184 U
4,4'-DDT	50-29-3	0.0033	136	7.9	mg/kg	<0.00184 UJ	<0.00173 U	<0.00197 UJ	<0.00294 U	<0.00185 U	<0.00179 U	<0.00198 U	<0.00189 U	<0.00189 U	<0.00197 U	<0.00179 U	<0.00177 U	<0.00211 U	<0.00184 U	<0.00184 U
Aldrin	309-00-2	0.005	0.19	0.097	mg/kg	<0.00184 UJ	<0.00173 U	<0.00197 UJ	<0.00294 U	<0.00185 U	<0.00179 U	<0.00198 U	<0.00189 U	<0.00189 U	<0.00197 U	<0.00179 U	<0.00177 U	<0.00211 U	<0.00184 U	<0.00184 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	mg/kg	<0.00184 UJ	<0.00173 U	<0.00197 UJ	<0.00294 U	<0.00185 U	<0.00179 U	<0.00198 U	<0.00189 U	<0.00189 U	<0.00197 U	<0.00179 U	<0.00177 U	<0.00211 U	<0.00184 U	<0.000765 U
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	mg/kg	<0.00184 UJ	<0.00173 U	<0.00197 UJ	<0.00368 U	<0.00185 U	<0.00179 U	<0.00198 U	<0.00189 U	<0.00189 U	<0.00197 U	<0.00179 U	<0.00177 U	<0.00211 U	<0.00184 U	<0.0023 U
Alpha Endosulfan	959-98-8	2.4	102	24	mg/kg	<0.00184 UJ	<0.00173 U	<0.00197 UJ	<0.00294 U	<0.00185 U	<0.00179 U	<0.00198 U	<0.00189 U	<0.00189 U	<0.00197 U	<0.00179 U	<0.00177 U	<0.00211 U	<0.00184 U	<0.00184 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	mg/kg	<0.00184 UJ	<0.00173 U	<0.00197 UJ	<0.00294 U	<0.00185 U	<0.00179 U	<0.00198 U	<0.00189 U	<0.00189 U	<0.00197 U	<0.00179 U	<0.00177 U	<0.00211 U	<0.00184 U	<0.00184 U
Beta Endosulfan	33213-65-9	2.4	102	24	mg/kg	<0.00184 UJ	<0.00173 U	<0.00197 UJ	<0.00294 U	<0.00185 U	<0.00179 U	<0.00198 U	<0.00189 U	<0.00189 U	<0.00197 U	<0.00179 U	<0.00177 U	<0.00211 U	<0.00184 U	<0.00184 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	mg/kg	NA	NA	NA	<0.0245 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0153 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	mg/kg	<0.00184 UJ	<0.00173 U	<0.00197 UJ	<0.00294 U	<0.00185 U	<0.00179 U	<0.00198 U	<0.00189 U	<0.00189 U	<0.00197 U	<0.00179 U	<0.00177 U	<0.00211 U	<0.00184 U	<0.00184 U
Dieldrin	60-57-1	0.005	0.1	0.2	mg/kg	<0.00184 UJ	<0.00173 U	<0.00197 UJ	<0.00184 U	<0.00185 U	<0.00179 U	<0.00198 U	<0.00189 U	<0.00189 U	<0.00197 U	<0.00179 U	<0.00177 U	<0.00211 U	<0.00184 U	<0.00115 U
Endosulfan Sulfate	1031-07-8	2.4	1000	24	mg/kg	<0.00184 UJ	<0.00173 U	<0.00197 UJ	<0.00123 U	<0.00185 U	<0.00179 U	<0.00198 U	<0.00189 U	<0.00189 U	<0.00197 U	<0.00179 U	<0.00177 U	<0.00211 U	<0.00184 U	<0.000765 U
Endrin	72-20-8	0.014	0.06	11	mg/kg	<0.00184 UJ	<0.00173 U	<0.00197 UJ	<0.00123 U	<0.00185 U	<0.00179 U	<0.00198 U	<0.00189 U	<0.00189 U	<0.00197 U	<0.00179 U	<0.00177 U	<0.00211 U	<0.00184 U	<0.000765 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	mg/kg	<0.00184 UJ	<0.00173 U	<0.00197 UJ	<0.00368 U	<0.00185 U	<0.00179 U	<0.00198 U	<0.00189 U	<0.00189 U	<0.00197 U	<0.00179 U	<0.00177 U	<0.00211 U	<0.00184 U	<0.0023 U
Endrin Ketone	53494-70-5	NS	NS	NS	mg/kg	<0.00184 UJ	<0.00173 U	<0.00197 UJ	<0.00294 U	<0.00185 U	<0.00179 U	<0.00198 U	<0.00189 U	<0.00189 U	<0.00197 U	<0.00179 U	<0.00177 U	<0.00211 U	<0.00184 U	<0.00184 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	mg/kg	<0.00184 UJ	<0.00173 U	<0.00197 UJ	<0.00294 U	<0.00185 U	<0.00179 U	<0.00198 U	<0.00189 U	<0.00189 U	<0.00197 U	<0.00179 U	<0.00177 U	<0.00211 U	<0.00184 U	<0.000765 U
Gamma Chlordane (Trans)	5103-74-2	NS	NS	NS	mg/kg	NA	NA	NA	<0.00368 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0023 U
Gamma-Chlordane	5566-34-7	NS	NS	NS	mg/kg	<0.00184 UJ	<0.00173 U	<0.00197 UJ	NA	<0.00185 U	<0.00179 U	<0.00198 U	<0.00189 U	<0.00189 U	<0.00197 U	<0.00179 U	<0.00177 U	<0.00211 U	<0.00184 U	NA
Heptachlor	76-44-8	0.042	0.38	2.1	mg/kg	<0.00184 UJ	<0.00173 U	<0.00197 UJ	<0.00147 U	<0.00185 U	<0.00179 U	<0.00198 U	<0.00189 U	<0.00189 U	<0.00197 U	<0.00179 U	<0.00177 U	<0.00211 U	<0.00184 U	<0.000918 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	mg/kg	<0.00184 UJ	<0.00173 U	<0.00197 UJ	<0.00552 U	<0.00185 U	<0.00179 U	<0.00198 U	<0.00189 U	<0.00189 U	<0.00197 U	<0.00179 U	<0.00177 U	<0.00211 U	<0.00184 U	<0.00344 U
Methoxychlor	72-43-5	NS	NS	NS	mg/kg	<0.00184 UJ	<0.00173 U	<0.00197 UJ	<0.00552 U	<0.00185 U	<0.00179 U	<0.00198 U	<0.00189 U	<0.00189 U	<0.00197 U	<0.00179 U	<0.00177 U	<0.00211 U	<0.00184 U	<0.00344 U
Toxaphene	8001-35-2	NS	NS	NS	mg/kg	<0.184 UJ	<0.173 U	<0.197 UJ	<0.0552 U	<0.185 U	<0.179 U	<0.198 U	<0.189 U	<0.189 U	<0.197 U	<0.179 U	<0.177 U	<0.211 U	<0.184 U	<0.0344 U
Herbicides																				
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	mg/kg	<0.022 U	<0.021 U	<0.0238 U	<0.315 U	<0.0223 U	<0.022 U	<0.0238 U	<0.0231 U	<0.0226 U	<0.0237 U	<0.0218 U	<0.0213 U	<0.0259 U	<0.0222 U	<0.022 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	mg/kg	<0.022 U	<0.021 U	<0.0238 U	<0.315 U	<0.0223 U	<0.022 U	<0.0238 U	<0.0231 U	<0.0226 U	<0.0237 U	<0.0218 U	<0.0213 U	<0.0259 U	<0.0222 U	<0.022 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	mg/kg	<0.022 U	<0.021 U	<0.0238 U	<0.315 U	<0.0223 U	<0.022 U	<0.0238 U	<0.0231 U	<0.0226 U	<0.0237 U	<0.0218 U	<0.0213 U	<0.0259 U	<0.0222 U	<0.022 U
Polychlorinated Biphenyl																				
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	mg/kg	<0.0186 UJ	<0.0175 UJ	<0.0199 UJ	<0.0916 U	<0.0186 U	<0.018 U	<0.02 U	<0.0191 U	<0.0191 U	<0.0199 U	<0.0181 U	<0.0178 U	<0.0213 U	<0.0185 U	<0.0551 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	mg/kg	<0.0186 UJ	<0.0175 UJ	<0.0199 UJ	<0.0916 U	<0.0186 U	<0.018 U	<0.02 U	<0.0191 U	<0.0191 U	<0.0199 U	<0.0181 U	<0.0178 U	<0.0213 U	<0.0185 U	<0.0551 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	mg/kg	<0.0186 UJ	<0.0175 UJ	<0.0199 UJ	<0.0916 U	<0.0186 U	<0.018 U	<0.02 U	<0.0191 U	<0.0191 U	<0.0199 U	<0.0181 U	<0.0178 U	<0.0213 U	<0.0185 U	<0.0551 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	mg/kg	<0.0186 UJ	<0.0175 UJ	<0.0199 UJ	<0.0916 U	<0.0186 U	<0.018 U	<0.02 U	<0.0191 U	<0.0191 U	<0.0199 U	<0.0181 U	<0.0178 U	<0.0213 U	<0.0185 U	<0.0551 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	mg/kg	<0.0186 UJ	<0.0175 UJ	<0.0199 UJ	<0.0916 U	<0.0186 U	<0.018 U	<0.02 U	<0.0191 U	<0.0191 U	<0.0199 U	<0.0181 U	<0.0178 U	<0.0213 U	<0.0185 U	<0.0551 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	mg/kg	<0.0186 UJ	<0.0175 UJ	<0.0199 UJ	<0.0916 U	<0.0186 U	<0.018 U	<0.02 U	<0.0191 U	0.247	<0.0199 U	<0.0181 U	<0.0178 U	<0.0213 U	<0.0185 U	<0.0551 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	mg/kg	<0.0186 UJ	<0.0175 UJ	<0.0199 UJ	<0.0916 U	0.0622	<0.018 U	<0.02 U	0.0291 J	<0.0191 U	<0.0199 U	<0.0181 U	<0.0178 U	<0.0213 U	0.0509	<0.0551 U
PCB-1262 (Aroclor 1262)	37324-23-5	NS	NS	NS	mg/kg	NA	NA	NA	<0.0916 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0551 U
PCB-1268 (Aroclor 1268)	11100-14-4	NS	NS	NS	mg/kg	NA	NA	NA	<0.0916 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0551 U
Total PCBs	1336-36-3	0.1	3.2	1	mg/kg	<0.0186 UJ	<0.0175 UJ	<0.0199 UJ	<0.0916 U	0.0622	<0.018 U	<0.02 U	0.0291 J	0.247	<0.0199 U	<0.0181 U	<0.0178 U	<0.0213 U	0.0509	<0.0551 U
Metals																				
Aluminum	7429-90-5	NS	NS	NS	mg/kg	6,670	3,770	9,720	14,800	7,960	5,400	3,830	8,090	6,820	6,040	7,100	6,870	3,810	6,320	3,640
Antimony	7440-36-0	NS	NS	NS	mg/kg	<2.82 UJ	<2.67 UJ	<3.01 UJ	0.929 J	8.14 J	6.18 J	<3.04 U	<2.91 U	<2.9 U	<3.02 U	<2.75 UJ	<2.69 UJ	<3.24 UJ	<2.79 U	0.361 J
Arsenic	7440-38-2	13	16	16	mg/kg	11.1 J	2.33	3.18	2.72	15.7	4.05	5.02	5.04	4.4	3.38	6.69	6.7	4.27	8.25	1.08
Barium	7440-39-3	350	820	400	mg/kg	438 J	92.5	120	9.67	563	545	265	411	279</						

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12096 Flatlands Avenue
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NYSDEC BCP Site No.: C224290
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Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location																
					Sample Name	LSB-24	LSB-24	LSB-24	LSB-24	LSB-25	LSB-25	LSB-25	LSB-26	LSB-26	LSB-26	LSB-27	LSB-27	LSB-27	LSB-27	LSB-27	
					Sample Date	082_LSB-24A	083_LSB-24B	084_LSB-24C	LSB24A_16-18	074_LSB-25A	075_LSB-25B	076_LSB-25C	072_LSB-26A	073_LSB-26B	081_LSB-26C	085_LSB-27A	086_DUP-4	087_LSB-27B	088_LSB-27C	LSB27A_17-19	
					Sample Depth	0-2	3-5	13-15	16-18	0-2	12-14	17-19	0-2	10-12	20.5-22.5	0-2	0-2	7-9	13-15	17-19	
Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result					
Perfluorooctanoic acids																					
11-Chloroicosafluoro-3-Oxaundecane-1-Sulfonic Acid	763051-92-9	NS	NS	NS	mg/kg	NA	NA	NA	<0.000798 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000797 U		
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	6HPFHSA	NS	NS	NS	mg/kg	NA	NA	NA	<0.000798 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000797 U	
3:3 FTCA	356-02-5	NS	NS	NS	mg/kg	NA	NA	NA	<0.000998 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000996 U	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	NS	NS	NS	mg/kg	NA	NA	NA	<0.000798 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000797 U	
5:3 FTCA	914637-49-3	NS	NS	NS	mg/kg	NA	NA	NA	<0.00499 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00498 U	
7:3 FTCA	812-70-4	NS	NS	NS	mg/kg	NA	NA	NA	<0.00499 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00498 U	
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	756426-58-1	NS	NS	NS	mg/kg	NA	NA	NA	<0.000798 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000797 U	
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NETFOSAA)	2991-50-6	NS	NS	NS	mg/kg	<0.000518 U	<0.000511 U	<0.000568 U	<0.0002 U	<0.000539 U	<0.000532 U	<0.000581 U	<0.000565 U	<0.000543 U	<0.000578 U	<0.000514 U	<0.000509 U	<0.000625 U	<0.000545 U	<0.000199 U	
N-ethylperfluorooctane sulfonamide	4151-50-2	NS	NS	NS	mg/kg	NA	NA	NA	<0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000199 U	
N-ethylperfluorooctane sulfonamido	1691-99-2	NS	NS	NS	mg/kg	NA	NA	NA	<0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000199 U	
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	NS	NS	mg/kg	<0.000518 U	<0.000511 U	<0.000568 U	<0.0002 U	<0.000539 U	<0.000532 U	<0.000581 U	<0.000565 U	<0.000543 U	<0.000578 U	<0.000514 U	<0.000509 U	<0.000625 U	<0.000545 U	<0.000199 U	
N-methylperfluorooctane sulfonamide	31506-32-8	NS	NS	NS	mg/kg	NA	NA	NA	<0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000199 U	
N-methylperfluorooctanesulfonamidol	24448-09-7	NS	NS	NS	mg/kg	NA	NA	NA	<0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000199 U	
Nonafluoro-3,6-dioxaheptanoic acid	151772-58-6	NS	NS	NS	mg/kg	NA	NA	NA	<0.000399 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000398 U	
Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7	NS	NS	NS	mg/kg	NA	NA	NA	<0.000399 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000398 U	
Perfluoro-3-methoxypropanoic acid	377-73-1	NS	NS	NS	mg/kg	NA	NA	NA	<0.000399 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000398 U	
Perfluoro-4-methoxybutanoic acid	863090-89-5	NS	NS	NS	mg/kg	NA	NA	NA	<0.000399 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000398 U	
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	mg/kg	<0.000518 U	<0.000511 U	<0.000568 U	<0.0002 U	<0.000539 U	<0.000532 U	<0.000581 U	<0.000565 U	<0.000543 U	<0.000578 U	<0.000514 U	<0.000509 U	<0.000625 U	<0.000545 U	<0.000199 U	
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	mg/kg	<0.000518 U	<0.000511 U	<0.000568 U	<0.000798 U	<0.000539 U	<0.000532 U	<0.000581 U	0.000584	<0.000543 U	<0.000578 U	<0.000514 U	<0.000509 U	<0.000625 U	<0.000545 U	<0.000797 U	
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	mg/kg	<0.000518 U	<0.000511 U	<0.000568 U	<0.0002 U	<0.000539 U	<0.000532 U	<0.000581 U	<0.000565 U	<0.000543 U	<0.000578 U	<0.000514 U	<0.000509 U	<0.000625 U	<0.000545 U	<0.000199 U	
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	mg/kg	<0.000518 U	<0.000511 U	<0.000568 U	<0.0002 U	<0.000539 U	<0.000532 U	<0.000581 U	<0.000565 U	<0.000543 U	<0.000578 U	<0.000514 U	<0.000509 U	<0.000625 U	<0.000545 U	<0.000199 U	
Perfluorododecanesulfonic Acid (PFDOS)	79780-39-5	NS	NS	NS	mg/kg	NA	NA	NA	<0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000199 U	
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	mg/kg	<0.000518 U	<0.000511 U	<0.000568 U	<0.0002 U	<0.000539 U	<0.000532 U	<0.000581 U	<0.000565 U	<0.000543 U	<0.000578 U	<0.000514 U	<0.000509 U	<0.000625 U	<0.000545 U	<0.000199 U	
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	mg/kg	<0.000518 U	<0.000511 U	<0.000568 U	<0.0002 U	<0.000539 U	<0.000532 U	<0.000581 U	<0.000565 U	<0.000543 U	<0.000578 U	<0.000514 U	<0.000509 U	<0.000625 U	<0.000545 U	<0.000199 U	
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	mg/kg	<0.000518 U	<0.000511 U	<0.000568 U	<0.0002 U	<0.000539 U	<0.000532 U	<0.000581 U	<0.000565 U	<0.000543 U	<0.000578 U	<0.000514 U	<0.000509 U	<0.000625 U	<0.000545 U	<0.000199 U	
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	mg/kg	<0.000518 U	<0.000511 U	<0.000568 U	<0.0002 U	<0.000539 U	<0.000532 U	<0.000581 U	<0.000565 U	<0.000543 U	<0.000578 U	<0.000514 U	<0.000509 U	<0.000625 U	<0.000545 U	<0.000199 U	
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	mg/kg	<0.000518 U	<0.000511 U	<0.000568 U	<0.0002 U	<0.000539 U	<0.000532 U	<0.000581 U	<0.000565 U	<0.000543 U	<0.000578 U	<0.000514 U	<0.000509 U	<0.000625 U	<0.000545 U	<0.000199 U	
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	NS	NS	NS	mg/kg	NA	NA	NA	<0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000199 U	
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	mg/kg	<0.000518 U	<0.000511 U	<0.000568 U	<0.0002 U	<0.000539 U	<0.000532 U	<0.000581 U	<0.000565 U	<0.000543 U	<0.000578 U	<0.000514 U	<0.000509 U	<0.000625 U	<0.000545 U	<0.000199 U	
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	mg/kg	<0.000518 U	<0.000511 U	<0.000568 U	<0.0002 U	<0.000539 U	<0.000532 U	<0.000581 U	<0.000565 U	<0.000543 U	<0.000578 U	<0.000514 U	<0.000509 U	<0.000625 U	<0.000545 U	<0.000199 U	
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.00088	0.001	0.044	mg/kg	0.00161	<0.000511 U	<0.000568 U	<0.0002 U	<0.000539 U	<0.000532 U	<0.000581 U	<0.000565 U	<0.000543 U	<0.000578 U	<0.000514 U	<0.000509 U	<0.000625 U	0.000843	<0.000199 U	
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0008	0.033	mg/kg	<0.000518 U	<0.000511 U	<0.000568 U	<0.0002 U	<0.000539 U	<0.000532 U	<0.000581 U	<0.000565 U	0.000879	<0.000578 U	<0.000514 U	<0.000509 U	0.00103	<0.000545 U	<0.000199 U	
Perfluoropentanesulfonic Acid	2706-91-4	NS	NS	NS	mg/kg	NA	NA	NA	<0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000199 U	
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	mg/kg	<0.000518 U	<0.000511 U	<0.000568 U	<0.000399 U	<0.000539 U	<0.000532 U	<0.000581 U	<0.000565 U	<0.000543 U	<0.000578 U	<0.000514 U	<0.000509 U	<0.000625 U	<0.000545 U	<0.000398 U	
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	mg/kg	<0.000518 U	<0.000511 U	<0.000568 U	<0.0002 U	<0.000539 U	<0.000532 U	<0.000581 U	<0.000565 U	<0.000543 U	<0.000578 U	<0.000514 U	<0.000509 U	<0.000625 U	<0.000545 U	<0.000199 U	
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	mg/kg	<0.000518 U	<0.000511 U	<0.000568 U	<0.0002 U	<0.000539 U	<0.000532 U	<0.000581 U	<0.000565 U	<0.000543 U	<0.000578 U	<0.000514 U	<0.000509 U	<0.000625 U	<0.000545 U	<0.000199 U	
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	mg/kg	<0.000518 U	<0.000511 U	<0.000568 U	<0.0002 U	<0.000539 U	<0.000532 U	<0.000581 U	<0.000565 U	<0.000543 U	<0.000578 U	<0.000514 U	<0.000509 U	<0.000625 U	<0.000545 U	<0.000199 U	
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS)	39108-34-4	NS	NS	NS	mg/kg	<0.000518 U	<0.000511 U	<0.000568 U	<0.000798 U	<0.000539 U	<0.000532 U	<0.000581 U	<0.000565 U	<0.000543 U	<0.000578 U	<0.000514 U	<0.000509 U	<0.000625 U	<0.000545 U	<0.000797 U	
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS)	27619-97-2	NS	NS	NS	mg/kg	<0.000518 U	<0.000511 U	<0.000568 U	<0.000798 U	<0.000539 U	<0.000532 U	<0.000581 U	<0.000565 U	<0.000543 U	<0.000578 U	<0.000514 U	<0.000509 U	<0.000625 U	<0.000545 U	<0.000797 U	
Tetrafluoro-2-(heptafluoropropoxy) propanoic Acid	13252-13-6	NS	NS	NS	mg/kg	NA	NA	NA	<0.000798 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000797 U	

Table 2
Supplemental Remedial Investigation Report
Soil Sample Analytical Results

12096 Flatlands Avenue
Brooklyn, New York
NYSDEC BCP Site No.: C224290
Langan Project No.: 100688802

Notes:

CAS - Chemical Abstract Service

NS - No standard

mg/kg - milligram per kilogram

NA - Not analyzed

RL - Reporting limit

<RL - Not detected

Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Unrestricted Use, Protection of Groundwater, and Restricted Use Restricted-Residential Soil Cleanup Objectives (SCO).

Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Part 375 Remedial Programs Guidelines for Sampling and Analysis of Per- and Polyfluoroalkyl Substances (PFAS) Unrestricted Use, Restricted Use Restricted-Residential, and Protection of Groundwater Guidance Values (April 2023).

Criterion comparisons for 3- & 4-methylphenol (m&p cresol) are provided for reference. Promulgated SCOs are for 3-methylphenol (m-cresol) and 4-methylphenol (p-cresol).

Qualifiers:

D - The concentration reported is a result of a diluted sample.

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

P - The relative percent difference (RPD) between the results for the two columns exceeds the method-specified criteria.

U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

B - The analyte was found in the associated analysis batch blank.

J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or imprecise.

U - The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

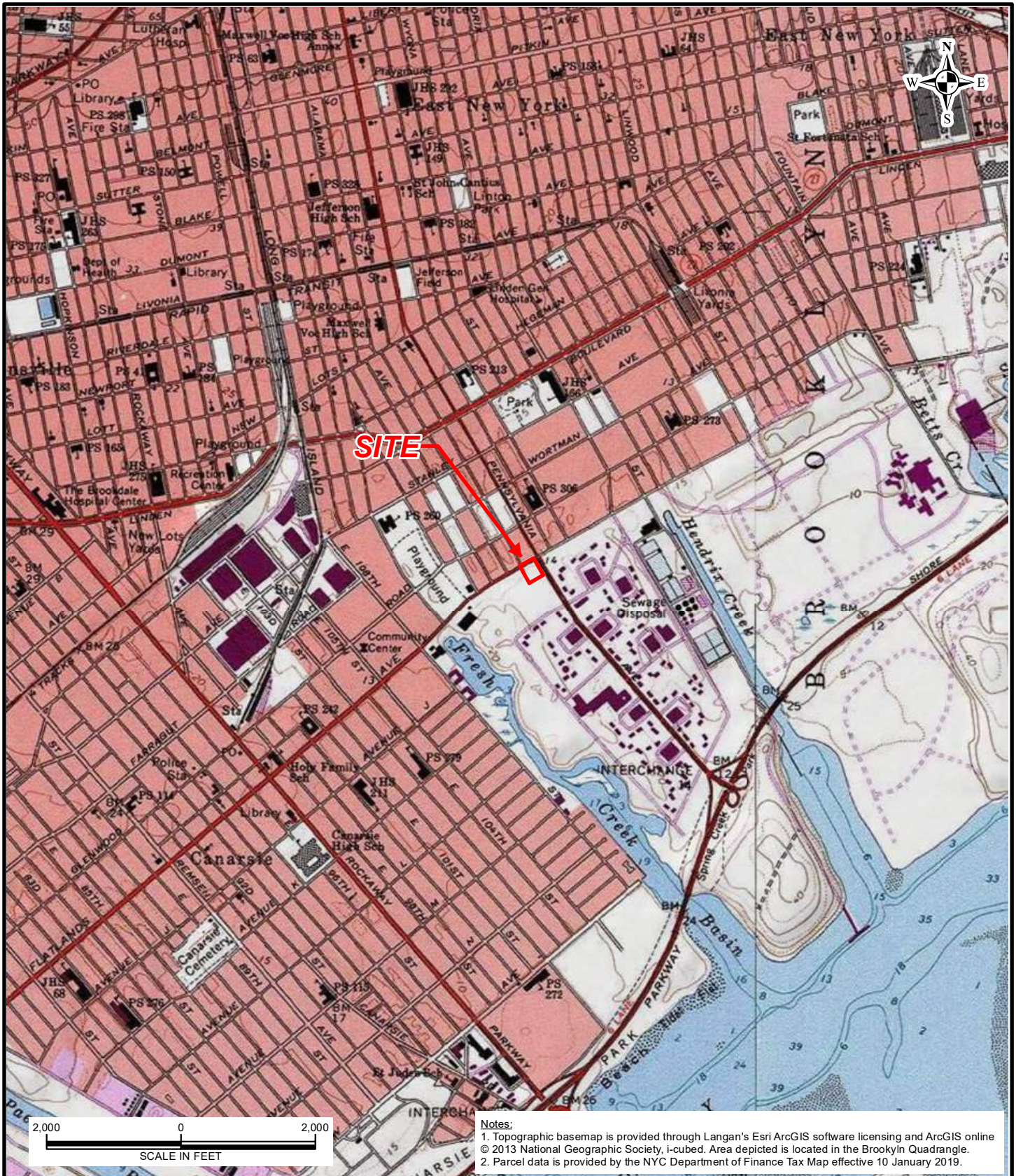
Exceedance Summary:

10 - Result exceeds Unrestricted Use SCOs

10 - Result exceeds Protection of Groundwater SCOs

10 - Result exceeds Restricted Use Restricted-Residential SCOs

FIGURES



- Notes:
1. Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online © 2013 National Geographic Society, i-cubed. Area depicted is located in the Brooklyn Quadrangle.
 2. Parcel data is provided by the NYC Department of Finance Tax Map effective 10 January 2019.

<p>300 Kimball Drive Parsippany, NJ 07054 T: 973.560.4900 F: 973.560.4901 www.langan.com</p> <p>Langan Engineering & Environmental Services, Inc. Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. Langan International LLC Collectively known as Langan</p> <p>NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400</p>	Project	Drawing Title	Project No.	Figure
	12096 FLATLANDS AVENUE	SITE LOCATION MAP	100688801	1
	BLOCK No. 4434, LOT No. 10		Date	
	BROOKLYN		6/21/2021	
KINGS COUNTY NEW YORK			Scale	
			1"=2,000'	
			Drawn By	
			JR	
			Last Revised	
			6/21/2021	

Block: 4409
Lot: 29

Table with 3 columns: Location (LSB-22), Sample Name (063 LSB-22A, 064 LSB-22B, 065 LSB-22C), Sample Date (4/13/2021, 4/13/2021, 4/13/2021), Sample Depth (0-2, 4-6, 13-15). Includes SVOCs and Metals data.

Table with 3 columns: Location (LSB-21), Sample Name (066 LSB-21A, 067 LSB-21B, 068 LSB-21C), Sample Date (4/13/2021, 4/13/2021, 4/13/2021), Sample Depth (0-2, 5-7, 12-14). Includes SVOCs and Metals data.

Block: 4411
Lot: 34

Table with 3 columns: Location (LSB-15), Sample Name (005 LSB-15A, 006 LSB-15B, LSB15A 16.5-18.5), Sample Date (5/8/2018, 5/8/2018, 4/19/2023), Sample Depth (0-2, 10-12, 16.5-18.5). Includes SVOCs and Metals data.

Table with 3 columns: Location (LSB-17), Sample Name (007 LSB-17A, 008 LSB-17B, LSB17A 14-16), Sample Date (5/8/2018, 5/8/2018, 4/19/2023), Sample Depth (0-2, 10-12, 14-16). Includes SVOCs and Metals data.

Table with 3 columns: Location (LSB-20), Sample Name (009 LSB-20A, 010 LSB-20B, LSB20A 12-14, LSB20A 15-17, DUP01 04192023), Sample Date (5/8/2018, 5/8/2018, 4/19/2023, 4/19/2023, 4/19/2023), Sample Depth (0-2, 9-11, 12-14, 15-17, 15-17). Includes SVOCs and Metals data.

Block: 4414
Lot: 7501

Table with 3 columns: Location (LSB-18), Sample Name (011 LSB-18A, 012 LSB-18B, LSB18A 16.5-18.5), Sample Date (5/8/2018, 5/8/2018, 4/19/2023), Sample Depth (0-2, 10-12, 16.5-18.5). Includes SVOCs and Metals data.

Table with 4 columns: Analyte, NYSDEC Part 375 Unrestricted Use SCOs, NYSDEC Part 375 Protection of Groundwater SCOs, NYSDEC Part 375 Restricted-Residential SCOs. Lists VOCs, SVOCs, Pesticides, PCBs, and PFAS.

Exceedance Summary:
10 - Result exceeds Unrestricted Use SCOs
10 - Result exceeds Protection of Groundwater SCOs
10 - Result exceeds Restricted Use Restricted-Residential SCOs

Notes:
1. Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Unrestricted Use, Protection of Groundwater, and Restricted Use Restricted-Residential Soil Cleanup Objectives (ISCO) and Polyfluoralkyl Substances (PFAS) Unrestricted Use, Protection of Groundwater, Restricted Use Restricted-Residential Guidance Values (April 2023).
2. Sample 015_DUP-1 is a duplicate sample of 014_LSB-16A, sample 086_DUP-4 is a duplicate sample of 085_LSB-27A, and sample DUP01_04192023 is a duplicate sample of LSB-20A_15-17.
3. bgs = below grade surface
4. mg/kg = milligrams per kilogram
5. ND = Not detected

Legend: Site Boundary, 2018 Phase II Soil Boring Location, 2018 Phase II Test Pit Location, 2018 Phase II Monitoring Well Location, 2021 RI Monitoring Well / Soil Boring Location, 2021 RI Soil Vapor Point Location, 2023 SRI Soil Boring Location, Tax Parcel, Tax Block, AOC-1.

Notes:
1. Aerial imagery provided by Nearmap Ltd., collected March 10, 2021.
2. Parcel information from MapPLUTO 21v1 copyrighted by the New York City Department of Planning.
3. AOC-1 location is based on a Sanborn Fire Insurance Map dated 1950.
4. 2018 Phase II EI Sample and Test Pit Locations obtained from Phase II EI Report conducted by Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology, D.P.C. dated 8/24/2018.
5. Sample locations for the RI were collected for soil borings and monitoring wells using classic survey techniques and for soil vapor points using the ArcGIS Collector application on a tablet utilizing the GPS location.
6. Chemboxes for sample collected during the 2023 SRI are shown with a bold outline.

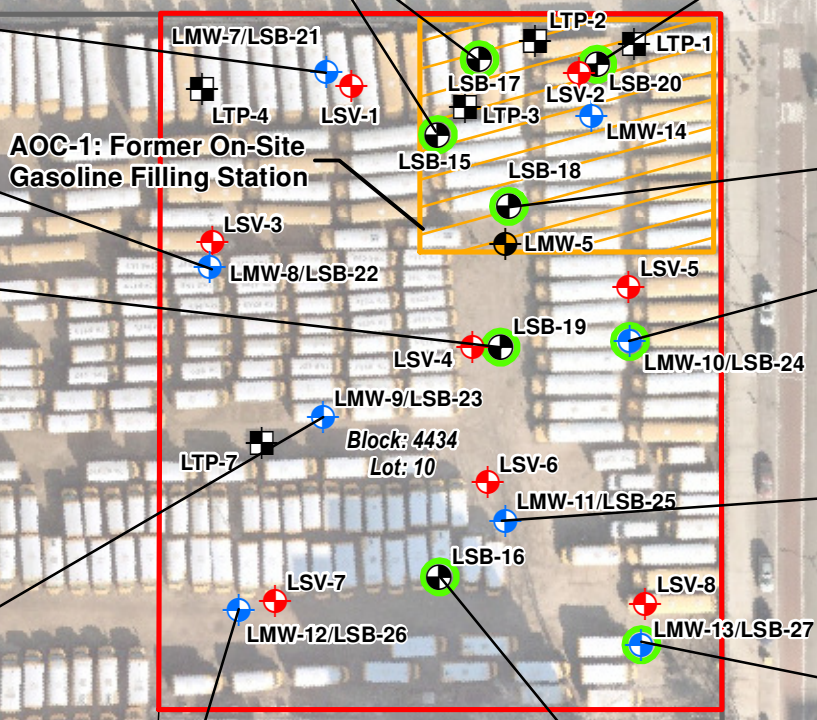


Table with 3 columns: Location (LSB-19), Sample Name (019 LSB-19A, 020 LSB-19B, LSB19A 18-20), Sample Date (5/8/2018, 5/8/2018, 4/19/2023), Sample Depth (0-2, 10-12, 18-20). Includes SVOCs and Metals data.

Table with 3 columns: Location (LSB-23), Sample Name (069 LSB-23A, 070 LSB-23B, 071 LSB-23C), Sample Date (4/13/2021, 4/13/2021, 4/13/2021), Sample Depth (0-2, 8-10, 18-20). Includes SVOCs and Metals data.

Table with 3 columns: Location (LSB-26), Sample Name (072 LSB-26A, 073 LSB-26B, 081 LSB-26C), Sample Date (4/13/2021, 4/13/2021, 4/14/2021), Sample Depth (0-2, 10-12, 20.5-22.5). Includes SVOCs and Metals data.

Table with 3 columns: Location (LSB-16), Sample Name (014 LSB-16A, 015 DUP-1, 016 LSB-16B, LSB16A 19.5-21.5), Sample Date (5/8/2018, 5/8/2018, 5/8/2018, 4/19/2023), Sample Depth (0-2, 0-2, 14-16, 19.5-21.5). Includes SVOCs and Metals data.

Table with 3 columns: Location (LSB-24), Sample Name (082 LSB-24A, 083 LSB-24B, 084 LSB-24C, LSB24A 16-18), Sample Date (4/15/2021, 4/15/2021, 4/15/2021, 4/19/2023), Sample Depth (0-2, 3-5, 13-15, 16-18). Includes SVOCs and Metals data.

Table with 3 columns: Location (LSB-25), Sample Name (074 LSB-25A, 075 LSB-25B, 076 LSB-25C), Sample Date (4/13/2021, 4/13/2021, 4/13/2021), Sample Depth (0-2, 12-14, 17-19). Includes SVOCs and Metals data.

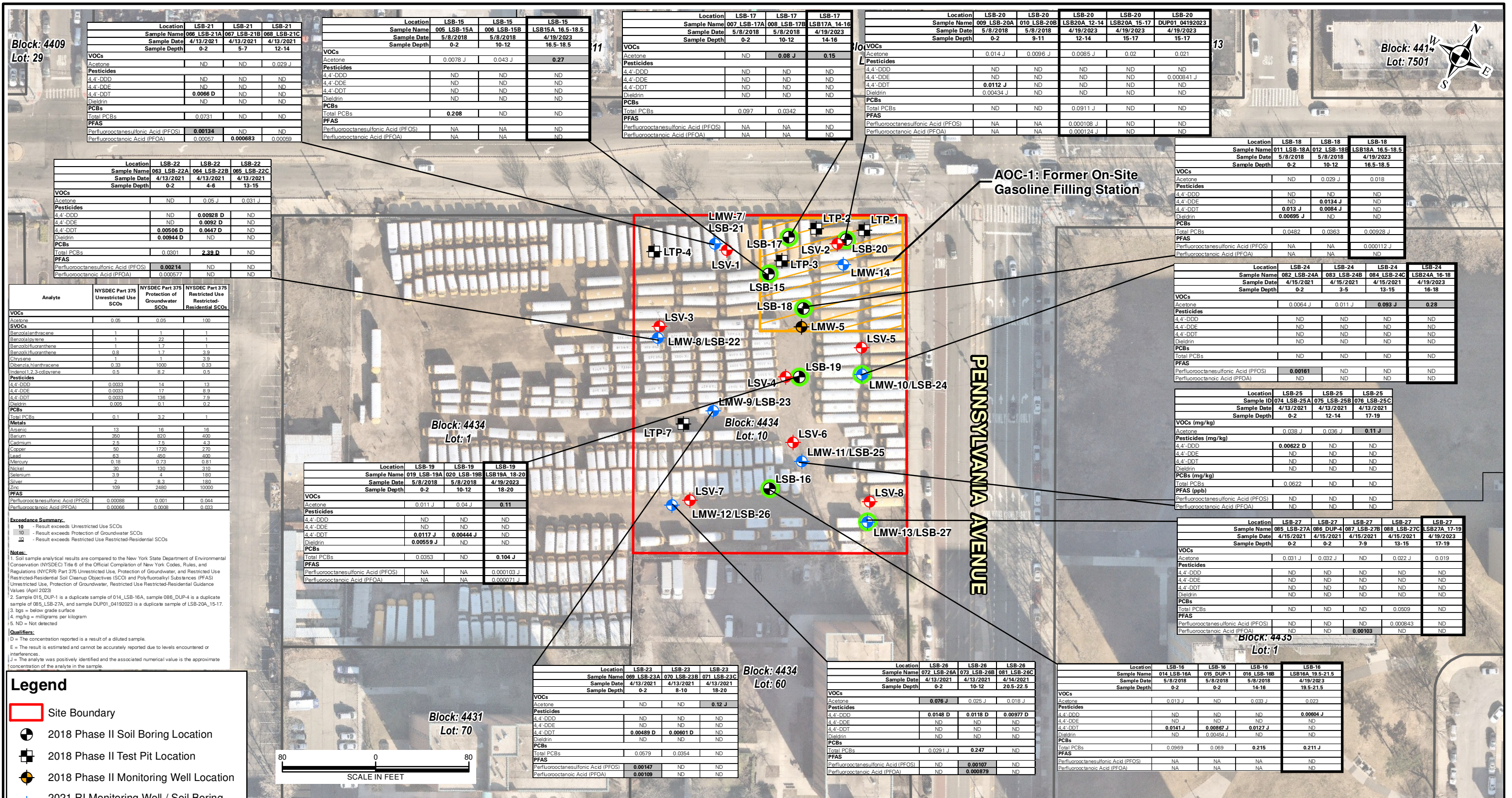
Table with 3 columns: Location (LSB-27), Sample Name (085 LSB-27A, 086 DUP-4, 087 LSB-27B, 088 LSB-27C, LSB27A 17-19), Sample Date (4/15/2021, 4/15/2021, 4/15/2021, 4/15/2021, 4/19/2023), Sample Depth (0-2, 0-2, 7-9, 13-15, 17-19). Includes SVOCs and Metals data.

LANGAN logo and contact information: 300 Kimball Drive, Parsippany, NJ 07054. T: 973.560.4900 F: 973.560.4901 www.langan.com

Project: 12096 FLATLANDS AVENUE, BLOCK No. 4434, LOT No. 10, BROOKLYN, NEW YORK

Drawing Title: 2018 PHASE II EI, 2021 RI, AND 2023 SRI SOIL ANALYTICAL RESULTS - SVOCs AND METAL

Project No. 100688801, Date 6/21/2021, Scale 1" = 80', Drawn By ATR, Last Revised 5/22/2023, Figure 2A



Legend

- Site Boundary
- 2018 Phase II Soil Boring Location
- ⊕ 2018 Phase II Test Pit Location
- 2018 Phase II Monitoring Well Location
- 2021 RI Monitoring Well / Soil Boring Location
- ⊕ 2021 RI Soil Vapor Point Location
- 2023 SRI Soil Boring Location
- Tax Parcel
- Tax Block
- AOC-1

Notes:

- Aerial imagery provided by Nearmap Ltd., collected March 10, 2021.
- Parcel information from MapPLUTO 21v1 copyrighted by the New York City Department of Planning.
- AOC-1 location is based on a Sanborn Fire Insurance Map dated 1950.
- 2018 Phase II EI Sample and Test Pit Locations obtained from Phase II EI Report conducted by Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology, D.P.C. dated 8/24/2018.
- Sample locations for the RI were collected for soil borings and monitoring wells using classic survey techniques and for soil vapor points using the ArcGIS Collector application on a tablet utilizing the GPS location.
- Chemboxes for samples collected during the 2023 RI are shown with a bold outline.

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

NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
12096 FLATLANDS AVENUE
BLOCK No. 4434, LOT No. 10
BROOKLYN
NEW YORK

Drawing Title
2018 PHASE II EI, 2021 RI, AND 2023 SRI SOIL ANALYTICAL RESULTS - VOCs, PESTICIDES, PCBs, AND PFAS

Project No. 100688801
Date 6/21/2021
Scale 1" = 80'
Drawn By ATR
Last Revised 5/22/2023

Figure
2B

ATTACHMENT 1

Soil Boring Logs

Project 12096 Flatlands Avenue			Project No. 100688801		
Location Brooklyn, New York			Elevation and Datum 15.36-ft NAVD88		
Drilling Company AARCO Environmental Services Corp.			Date Started 04/19/2023		Date Finished 04/19/2023
Drilling Equipment Geoprobe 6610 DT			Completion Depth 20 ft		Rock Depth
Size and Type of Bit 2-inch Direct Push			Number of Samples	Disturbed 4	Undisturbed ---
Casing Diameter (in) ---			Casing Depth (ft) ---	Water Level (ft.) First 14	Completion 24 HR. ---
Casing Hammer ---		Weight (lbs) ---	Drop (in) ---	Drilling Foreman Rob Randazzo	
Sampler 1.75" x 5' Long Acetate Lined Macrocore			Field Engineer Esther Arthur		
Sampler Hammer ---		Weight (lbs) ---	Drop (in) ---		

I:\LANGAN.COM\DATA\PAR\DATA\8100688801\PROJECT DATA\ DISCIPLINE\ENVIRONMENTAL\GINTLOGS\100688801 ENTERPRISE.GPJ ... 5/19/2023 12:57:37 PM - Report: Log - LANGAN

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist	BL/Join		PID (ppm)
[Cross-hatched pattern]	+15.4	Brown to dark brown fine SAND, trace fine gravel, concrete fragments (dry) [FILL]	0						0.0	Started Drilling on 4/19/2023
	1								0.0	
	2								0.0	
	3								0.0	
	4								0.0	
	5		Brown fine-medium SAND, some gravel (dry) [FILL]						0.0	
	6								0.0	
	7								0.0	
	8		Dark gray to black fine-coarse SAND, some ash, some gravel (dry) [FILL]						0.0	
	9								0.0	
	10								0.0	
	11								0.0	
	12								0.0	
	13								0.0	
[Dotted pattern]	-0.6	Dark gray to black fine-coarse SAND, some ash, some gravel (wet) [FILL]	14						0.0	
	15								0.0	
	16		Dark gray to black fine-coarse SAND, some ash, some gravel (wet) [FILL]						0.0	
	17								0.0	
	18		Dark olive to black fine SAND, some silt, trace organics (wet) [NATIVE]						0.0	
	19								0.0	
	20								0.0	
	-4.6		20	M-4	Macrocore	50			0.0	Collected LSB-15A_ 16.5-18.5 from 16.5- to 18.5-feet bgs. VOCs collected from 16.5- to 17-feet bgs
									0.0	Bottom of boring at 20-feet bgs

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Log of Boring

LSB-16A

Sheet

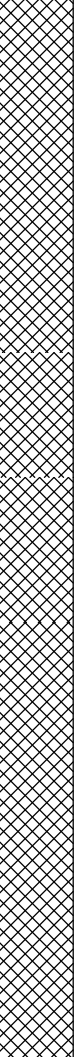
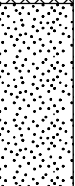
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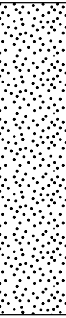
of

2

Project 12096 Flatlands Avenue			Project No. 100688801		
Location Brooklyn, New York			Elevation and Datum 18.26-ft NAVD88		
Drilling Company AARCO Environmental Services Corp.			Date Started 04/19/2023		Date Finished 04/19/2023
Drilling Equipment Geoprobe 6610 DT			Completion Depth 25 ft		Rock Depth
Size and Type of Bit 2-inch Direct Push			Number of Samples		Disturbed 5
Casing Diameter (in) ---			Casing Depth (ft) ---		Undisturbed ---
Casing Hammer ---			Weight (lbs) ---		Drop (in) ---
Sampler 1.75" x 5' Long Acetate Lined Macrocore			Drilling Foreman Rob Randazzo		
Sampler Hammer ---			Weight (lbs) ---		Drop (in) ---
			Field Engineer Esther Arthur		

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist	BL/Join		PID (ppm)
	+18.3	Dark brown fine-coarse SAND, some medium gravel, trace brick, concrete fragments (dry) [FILL]	0						0.0	Started Drilling on 4/19/2023
			1						0.0	
			2						0.0	
			3	M-1	Macrocore	50			0.0	
			4						0.0	
			5						0.0	
			6	M-2	Macrocore	58			0.0	
			7						0.0	
			8						0.0	
			9						0.0	
			10						0.0	
			11						0.0	
			12	M-3	Macrocore	46			0.0	
			13						0.0	
			14						0.0	
			15						0.0	
			16						0.0	
	+1.3	Dark olive fine-medium SAND, some medium gravel (wet) [NATIVE]	17	M-4	Macrocore	48			0.0	Collected LSB-16A_19.5-21.5 from 19.5- to 21.5-feet bgs. VOCs collected from 19.5- to 20-feet bgs
			18						0.0	
			19						0.0	
			20						0.0	

Project		Project No.						
12096 Flatlands Avenue		100688801						
Location		Elevation and Datum						
Brooklyn, New York		18.26-ft NAVD88						
MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist. BL/6in	
	-1.7	Dark olive fine-medium SAND, some medium gravel (wet) [NATIVE]	20	M-5 Macrocore	52			0.0
	21		0.0					
	22		0.0					
	23		0.0					
	24		0.0					
	25		0.0					
	26		0.0					
	27		0.0					
	28		0.0					
	29		0.0					
	-6.7		30					0.0
			31					0.0
			32					0.0
			33					0.0
			34					0.0
			35					0.0
			36					0.0
			37					0.0
			38					0.0
			39					0.0
			40					0.0
			41					0.0
			42					0.0
			43					0.0
			44					0.0
			45					0.0
								Bottom of boring at 25-foot bgs

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Project 12096 Flatlands Avenue			Project No. 100688801		
Location Brooklyn, New York			Elevation and Datum 13.86-ft NAVD88		
Drilling Company AARCO Environmental Services Corp.			Date Started 04/19/2023		Date Finished 04/19/2023
Drilling Equipment Geoprobe 6610 DT			Completion Depth 20 ft		Rock Depth
Size and Type of Bit 2-inch Direct Push			Number of Samples		Disturbed 4
Casing Diameter (in) ---			Casing Depth (ft) ---		Undisturbed ---
Casing Hammer ---			Weight (lbs) ---		Drop (in) ---
Sampler 1.75" x 5' Long Acetate Lined Macrocore			Water Level (ft.) First 12		Completion 24 HR. ---
Sampler Hammer ---			Weight (lbs) ---		Drop (in) ---
			Drilling Foreman Rob Randazzo		
			Field Engineer Esther Arthur		

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist	BL/Join		PID (ppm)
[Cross-hatched pattern]	+13.9	Dark brown fine-coarse SAND, some gravel, Some asphalt (dry) [FILL]	0						0.0	Started Drilling on 4/19/2023
			1						0.0	
		Orangish brown fine-medium SAND, concrete fragments (dry) [FILL]	2	M-1	Macrocore	48			0.0	
			3						0.0	
			4						0.0	
			5						0.0	
			6						0.0	
			7	M-2	Macrocore	45			0.0	
			8						0.0	
			9						0.0	
			10						0.0	
			11						0.0	
		12	M-3	Macrocore	48			0.0		
		13						0.0	Collected LSB-17A_ 14-16 from 14- to 16-feet bgs. VOCs collected from 14.5- to 15-feet bgs	
	+0.9	Black fine-medium SAND, some silt, trace organics (wet) [NATIVE]	14					0.0		
		Dark olive fine-medium SAND, trace silt (wet) [NATIVE]	15					0.0		
			16					0.0		
			17					0.0		
			18	M-4	Macrocore	60		0.0		
			19					0.0		
			20					0.0		
	-6.1								Bottom of boring at 20-feet bgs	

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Log of Boring

LSB-18A

Sheet

1

of

1

Project 12096 Flatlands Avenue			Project No. 100688801		
Location Brooklyn, New York			Elevation and Datum 15.67-ft NAVD88		
Drilling Company AARCO Environmental Services Corp.			Date Started 04/19/2023		Date Finished 04/19/2023
Drilling Equipment Geoprobe 6610 DT			Completion Depth 20 ft		Rock Depth
Size and Type of Bit 2-inch Direct Push			Number of Samples	Disturbed 4	Undisturbed ---
Casing Diameter (in) ---			Casing Depth (ft) ---	Water Level (ft.) First 13	Completion 24 HR. ---
Casing Hammer ---		Weight (lbs) ---	Drop (in) ---	Drilling Foreman Rob Randazzo	
Sampler 1.75" x 5' Long Acetate Lined Macrocore			Field Engineer Esther Arthur		
Sampler Hammer ---		Weight (lbs) ---	Drop (in) ---		

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MATERIAL SYMBOL	Elev. (ft) +15.7	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)		
				Number	Type	Recov. (in)	Penetr. resist	BL/Join		PID (ppm)	
[Cross-hatched pattern]		Brown to dark brown fine-coarse SAND, some gravel, trace brick, concrete fragments (dry) [FILL]	0						0.0	Started Drilling on 4/19/2023	
			1						0.0		
				2					0.0		
				3	M-1	Macrocore	52				0.0
				4							0.0
				5							0.0
			Brown fine-medium SAND, some medium gravel (dry) [FILL]	6							0.0
				7	M-2	Macrocore	56				0.0
				8							0.0
			Dark brown fine-coarse SAND, some ash, some medium gravel, trace wood (moist) [FILL]	9							0.0
				10							0.0
			Dark brown to black fine-coarse SAND, some ash, some medium gravel, trace wood (wet) [FILL]	11							0.0
				12							0.0
			13	M-3	Macrocore	48			0.0		
			14						0.0		
			15						0.0		
			16						0.0	Collected LSB-18A_ 16.5-18.5 from 16.5- to 18.5-feet bgs. VOCs collected from 17.5- to 18-feet bgs	
			17	M-4	Macrocore	54			0.0		
			18						0.0		
	-3.3	Dark gray fine-medium SAND, trace silt (wet) [NATIVE]	19						0.0	Bottom of boring at 20-feet bgs	
	-4.3		20						0.0		

Project 12096 Flatlands Avenue			Project No. 100688801		
Location Brooklyn, New York			Elevation and Datum 16.8-ft NAVD88		
Drilling Company AARCO Environmental Services Corp.			Date Started 04/19/2023		Date Finished 04/19/2023
Drilling Equipment Geoprobe 6610 DT			Completion Depth 20 ft		Rock Depth
Size and Type of Bit 2-inch Direct Push			Number of Samples		Disturbed 4
Casing Diameter (in) ---			Casing Depth (ft) ---		Undisturbed ---
Casing Hammer ---			Weight (lbs) ---		Drop (in) ---
Sampler 1.75" x 5' Long Acetate Lined Macrocore			Drilling Foreman Rob Randazzo		
Sampler Hammer ---			Weight (lbs) ---		Drop (in) ---
			Field Engineer Esther Arthur		

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MATERIAL SYMBOL	Elev. (ft) +16.8	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist	BL/Join		PID (ppm)
X		Brown fine-coarse SAND, some medium gravel, trace brick, concrete fragments (dry) [FILL]	0						0.0	Started Drilling on 4/19/2023
	1							0.0		
	2							0.0		
	3			M-1	Macrocore	52			0.0	
	4								0.0	
	5								0.0	
	6	Concrete fragments [FILL]							0.0	
	7	Dark gray to black fine-medium SAND, some gravel (moist) [FILL]		M-2	Macrocore	56			0.0	
	8								0.0	
	9								0.0	
	10								0.0	
	11	Dark gray to black fine-coarse SAND, some ash, some glass, some gravel, trace wood (moist) [FILL]							0.0	
	12			M-3	Macrocore	42			0.0	
	13								0.0	
	14								0.0	
	15	Dark gray to black fine-coarse SAND, some ash, some glass, some gravel, trace wood (wet) [FILL]							0.0	
	16								0.0	
	17			M-4	Macrocore	40			0.0	
	18								0.0	
	19								0.0	
20								0.0		

Collected LSB-19A_ 18-20 from 18- to 20-feet bgs.
VOCs collected from 18.5- to 19-feet bgs

Bottom of boring at 20-feet bgs

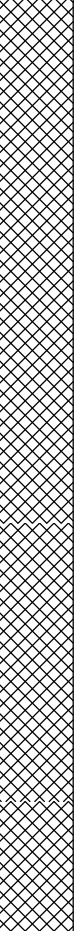
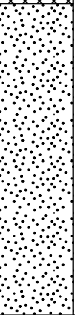
Project 12096 Flatlands Avenue			Project No. 100688801		
Location Brooklyn, New York			Elevation and Datum 13.89-ft NAVD88		
Drilling Company AARCO Environmental Services Corp.			Date Started 04/19/2023		Date Finished 04/19/2023
Drilling Equipment Geoprobe 6610 DT			Completion Depth 20 ft		Rock Depth
Size and Type of Bit 2-inch Direct Push			Number of Samples		Disturbed 4
Casing Diameter (in) ---			Casing Depth (ft) ---		Undisturbed ---
Casing Hammer ---			Weight (lbs) ---		Drop (in) ---
Sampler 1.75" x 5' Long Acetate Lined Macrocore			Water Level (ft.) First 11		Completion 24 HR. ---
Sampler Hammer ---			Weight (lbs) ---		Drop (in) ---
			Drilling Foreman Rob Randazzo		
			Field Engineer Esther Arthur		

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MATERIAL SYMBOL	Elev. (ft) +13.9	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist	BL/Join		PID (ppm)
[Cross-hatched pattern]		Dark brown fine-coarse SAND, some medium gravel, brick fragments, Some asphalt (dry) [FILL]	0						0.0	Started Drilling on 4/19/2023
			1						0.0	
			2						0.0	
			3	M-1	Macrocore	49			0.0	
			4						0.0	
			5						0.0	
			6						0.0	
			7	M-2	Macrocore	40			0.0	
			8						0.0	
			9						0.0	
		10						0.0		
		Brown to black fine-coarse SAND, some ash, some gravel (moist) [FILL]	11						0.0	Collected LSB-20A_12-14 from 12- to 14-foot bgs. VOCs collected from 13- to 13.5-foot bgs
			12						0.0	
			13	M-3	Macrocore	46			0.0	
			14						0.0	
			15						0.0	
		Brown fine-coarse SAND, some ash, some gravel, brick fragments, glass fragments (wet) [FILL]	16						0.0	Collected LSB-20A_15-17 and DUP01_04192023 from 15- to 17-foot bgs. VOCs collected from 15.5- to 16-foot bgs
			17						0.0	
			18	M-4	Macrocore	60			0.0	
			19						0.0	
		Black to dark olive fine-medium SAND, some medium gravel (wet) [NATIVE]	20						0.0	Bottom of boring at 20-foot bgs

Project 12096 Flatlands Avenue			Project No. 100688801		
Location Brooklyn, New York			Elevation and Datum 15.08-ft NAVD88		
Drilling Company AARCO Environmental Services Corp.			Date Started 04/19/2023		Date Finished 04/19/2023
Drilling Equipment Geoprobe 6610 DT			Completion Depth 20 ft		Rock Depth
Size and Type of Bit 2-inch Direct Push			Number of Samples	Disturbed 4	Undisturbed ---
Casing Diameter (in) ---			Casing Depth (ft) ---	Water Level (ft.) First 15	Completion 24 HR. ---
Casing Hammer ---	Weight (lbs) ---	Drop (in) ---	Drilling Foreman Rob Randazzo		
Sampler 1.75" x 5' Long Acetate Lined Macrocore			Field Engineer Esther Arthur		
Sampler Hammer ---			Weight (lbs) ---		
			Drop (in) ---		

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist	BL/Join		PID (ppm)
	+15.1	Brown to dark brown fine-coarse SAND, some medium gravel, brick fragments, concrete fragments (dry) [FILL]	0						0.0	Started Drilling on 4/19/2023
	1								0.0	
	2								0.0	
	3			M-1	Macrocore	50			0.0	
	4								0.0	
	5								0.0	
	6								0.0	
	7			M-2	Macrocore	54			0.0	
	8								0.0	
	9		Dark gray to black fine-coarse SAND, some ash, some wood, some medium gravel, glass fragments (moist) [HISTORIC FILL]						0.0	
	10								0.0	
	11								0.0	
	12			M-3	Macrocore	46			0.0	
	13		Black fine-medium SAND, trace medium gravel, wood fragments (wet) [FILL]						0.0	
	14								0.0	
	+0.1	Black fine-medium SAND, some organics, trace medium gravel (wet) [NATIVE]	15						0.0	Collected LSB-24A_16-18 from 16- to 18-foot bgs. VOCs collected from 16.5- to 17-foot bgs
	16								0.0	
	17								0.0	
	18		Olive to gray fine-medium SAND, some organics (wet) [NATIVE]						0.0	
	19			M-4	Macrocore	60			0.0	
	20								0.0	
	-4.9								0.0	Bottom of boring at 20-foot bgs

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Log of Boring

LSB-27A

Sheet

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of

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Project 12096 Flatlands Avenue			Project No. 100688801		
Location Brooklyn, New York			Elevation and Datum 16.28-ft NAVD88		
Drilling Company AARCO Environmental Services Corp.			Date Started 04/19/2023		Date Finished 04/19/2023
Drilling Equipment Geoprobe 6610 DT			Completion Depth 20 ft		Rock Depth
Size and Type of Bit 2-inch Direct Push			Number of Samples		Disturbed 4
Casing Diameter (in) ---			Casing Depth (ft) ---		Undisturbed ---
Casing Hammer ---			Weight (lbs) ---		Drop (in) ---
Sampler 1.75" x 5' Long Acetate Lined Macrocore			Drilling Foreman Rob Randazzo		
Sampler Hammer ---			Weight (lbs) ---		Drop (in) ---
			Field Engineer Esther Arthur		

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist. BL/ft	PID (ppm)	
	+16.3	Dark brown fine-coarse SAND, some medium gravel, trace brick (dry) [FILL]	0					0.0	Started Drilling on 4/19/2023
	1							0.0	
	2							0.0	
	3							0.0	
	4							0.0	
	5		Dark brown fine-coarse SAND, some wood, some medium gravel, trace brick (dry) [FILL]					0.0	
	6							0.0	
	7		Concrete fragments					0.0	
	8		Dark brown to black fine-coarse SAND, some medium gravel, brick fragments, concrete fragments (dry) [FILL]			48		0.0	
	9							0.0	
	10		Dark brown to black fine-coarse SAND, some ash, some medium gravel, brick fragments, concrete fragments, wood fragments (dry) [FILL]					0.0	
	11							0.0	
	12							0.0	
	13							0.0	
	14							0.0	
	+1.3	Brown fine-medium SAND, trace medium gravel (wet) [NATIVE]	15					0.0	Collected LSB-27A_ 17-19 from 17- to 19-foot bgs. VOCs collected from 17.5- to 18-foot bgs
	16							0.0	
	17							0.0	
	18							0.0	
	19							0.0	
	20							0.0	
	-3.7		20					0.0	Bottom of boring at 20-foot bgs

ATTACHMENT 2

Daily Report

DAILY STATUS REPORT

Prepared By: Esther Arthur

WEATHER	Snow		Rain		Overcast	x	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50	x	50-70	x	70-85		>85	

Langan Project No:	100688802	Project:	12096 Flatlands Avenue	Date:	4/19/2023
NYSDEC BCP Site No:	C224290			Time:	06:30 – 15:30

Consultant:

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

PERSONNEL ON SITE:

Langan: Esther Arthur (Environmental)
AARCO: Rob Randazzo

EQUIPMENT ON SITE: Geoprobe® 6610DT

Site Activities

- Langan mobilized to the site with AARCO Environmental Services, Inc. (AARCO), the drilling contractor.
- Langan used a handheld GPS unit to locate the former boring locations.
- AARCO used a Geoprobe® 6610DT direct-push drill rig to advance soil borings LSB-15A through LSB-20A, LSB-24A, and LSB-27A. LSB-15A, LSB-17A through LSB-20A, LSB-24A, and LSB-27A were to a depth of 20 feet below ground surface (bgs). LSB-16A was advanced to a depth of 25 feet bgs.
- No impacts or elevated PID readings were observed.

Samples Collected

- The following samples were collected for analysis of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, herbicides, target analyte list (TAL) metals, hexavalent chromium, trivalent chromium, total cyanide, 1,4-dioxane, and per- and polyfluoroalkyl substances (PFAS):

Sample ID	Depth (ft bgs)
LSB-15A_16.5-18.5	16.5 to 18.5
LSB-16A_19.5-21.5	19.5 to 21.5
LSB-17A_14-16	14.0 to 16.0
LSB-17A_16-18 (HOLD)	16.0 to 18.0
LSB-18A_16.5-18.5	16.5 to 18.5
LSB-19A_18-20	18.0 to 20.0
LSB-20A_12-14	12.0 to 14.0
LSB-20A_15-17	15.0 to 17.0
DUP01_04192023	15.0 to 17.0
LSB-24A_16-18	16.0 to 18.0
LSB-27A_17-19	17.0 to 19.0

- Trip Blank, TB01_04192023, collected for analysis of VOCs.

- Field blank FB01_04192023 was collected for analysis of VOCs, SVOCs, PCBs, pesticides, herbicides, TAL metals, hexavalent chromium, trivalent chromium, total cyanide, 1,4-dioxane, and PFAS.
- Equipment blank EB01_04192023 was collected for analysis of PFAS and 1,4-dioxane.

Community Air Monitoring Program (CAMP)

- Langan implemented the CAMP during soil disturbance. The CAMP equipment consisted of a DustTrack II and photoionization detector (PID) at dedicated locations on the downwind perimeter and upwind perimeter of the site, as well as a personal DataRam (pDR) and Photoionization Detector (PID) at a work zone monitoring station.
- Dust and VOC concentrations were not detected in exceedance of the daily short-term exposure limit (STEL).

Problems Encountered

- None

Activities Scheduled for Next Day

- None

Photo Log

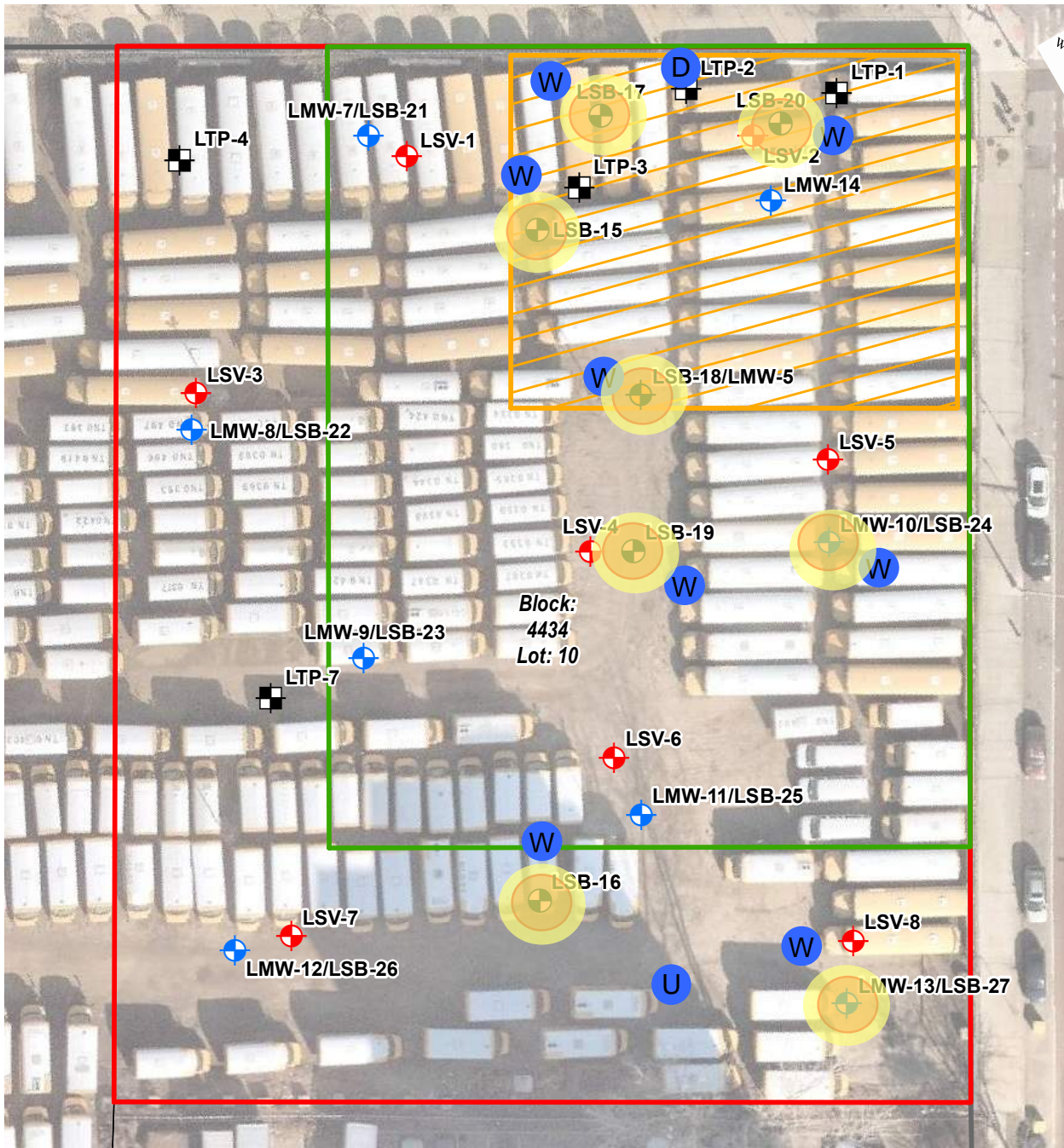
Photo 1 – AARCO drilling LSB-20A, facing northeast.



Photo 2 – boring logs from LSB-17A, facing south.














SITE MAP



Approximate and Not to Scale

LEGEND

- | | | | |
|---|---|---|---|
|  | BCP Site No. C224290 (12096 Flatlands Avenue) Site Boundary |  | Work Zone Air Monitoring Station |
|  | Proposed Soil Boring/ Monitoring Well Location |  | Downwind Perimeter Air Monitoring Station |
|  | Historical Soil Vapor Point |  | Upwind Perimeter Air Monitoring Station |
|  | Historical Soil Boring/ Monitoring Well Location |  | Work Area |
|  | Historical Soil Boring Location | | |
|  | AOC-1: Former Gasoline Filling Station | | |
|  | AOC-2: Former Automotive Dismantling/Wrecking | | |

NOTES

1. Basemap taken from Figure 2 - Site Plan.
2. Sample and test pits locations from prior investigations were collected using the ArcGIS Collector application on a table utilizing GPS location.

ATTACHMENT 3

Laboratory Data Report



ANALYTICAL REPORT

Lab Number:	L2320936
Client:	Langan Engineering & Environmental 300 Kimball Drive 4th Floor Parsippany, NJ 07054
ATTN:	Lauren Kott
Phone:	(973) 560-4807
Project Name:	12096 FLATLANDS AVENUE
Project Number:	100688801
Report Date:	05/11/23

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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: 12096 FLATLANDS AVENUE

Project Number: 100688801

Lab Number: L2320936

Report Date: 05/11/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2320936-01	LSB15A_16.5-18.5	SOIL	BROOKLYN, NY	04/19/23 09:00	04/19/23
L2320936-02	LSB17A_14-16	SOIL	BROOKLYN, NY	04/19/23 09:25	04/19/23
L2320936-03	LSB17A_16-18	SOIL	BROOKLYN, NY	04/19/23 09:35	04/19/23
L2320936-04	LSB20A_15-17	SOIL	BROOKLYN, NY	04/19/23 10:00	04/19/23
L2320936-05	DUP01_04192023	SOIL	BROOKLYN, NY	04/19/23 10:05	04/19/23
L2320936-06	LSB20A_12-14	SOIL	BROOKLYN, NY	04/19/23 10:35	04/19/23
L2320936-07	LSB18A_16.5-18.5	SOIL	BROOKLYN, NY	04/19/23 11:10	04/19/23
L2320936-08	LSB19A_18-20	SOIL	BROOKLYN, NY	04/19/23 12:00	04/19/23
L2320936-09	LSB24A_16-18	SOIL	BROOKLYN, NY	04/19/23 12:30	04/19/23
L2320936-10	LSB27A_17-19	SOIL	BROOKLYN, NY	04/19/23 13:55	04/19/23
L2320936-11	LSB16A_19.5-21.5	SOIL	BROOKLYN, NY	04/19/23 14:30	04/19/23
L2320936-12	FB-01_04192023	WATER	BROOKLYN, NY	04/19/23 14:00	04/19/23
L2320936-13	EB-01_04192023	WATER	BROOKLYN, NY	04/19/23 14:00	04/19/23
L2320936-14	TB-01_04192023	WATER	BROOKLYN, NY	04/19/23 00:00	04/19/23

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

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: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Case Narrative (continued)

Report Submission

May 11, 2023: This final report includes the results of all requested analyses.

April 27, 2023: 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 project name was specified by the client.

Volatile Organics

The WG1770794-6/-7 MS/MSD recoveries, performed on L2320936-11, are below the acceptance criteria for vinyl acetate (0%/0%) and trans-1,4-dichloro-2-butene (0%/0%) due to the concentration of these compounds in the MS/MSD falling below the reported detection limit.

Semivolatile Organics

The WG1769789-4/-5 MS/MSD recoveries, performed on L2320936-11, are below the acceptance criteria for hexachlorocyclopentadiene (0%/0%), 2,4-dinitrophenol (0%/0%), 4,6-dinitro-o-cresol (0%/0%), and benzoic acid (0%/0%) due to the concentration of these compounds in the MS/MSD falling below the reported detection limit.

The WG1769789-4 MS recoveries, performed on L2320936-11, are outside the acceptance criteria for phenanthrene (6%) and pyrene (6%). The unacceptable percent recoveries are attributed to the elevated concentrations of target compounds present in the native sample.

Perfluorinated Alkyl Acids by 1633

L2320936-07RE, -13RE, WG1773185-1, WG1772881-3, WG1773185-2, and WG1773185-3: The sample was re-extracted within holding time due to QC failures in the original extraction. The results of the re-

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Case Narrative (continued)

extraction are reported.

WG1777187-1: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

The WG1772881-2 LCS recovery, associated with L2320936-12, is above the acceptance criteria for nonafluoro-3,6-dioxaheptanoic acid (nfdha) (201%); however, the associated sample is non-detect to the RL for this target analyte. The results of the original analysis are reported.

The WG1772881-3 LCS recoveries, associated with L2320936-12, were below the acceptance criteria for perfluorobutanoic acid (pfba) (4%), perfluoropentanoic acid (pfpea) (4%), perfluorobutanesulfonic acid (pfbs) (5%), 1h,1h,2h,2h-perfluorohexanesulfonic acid (4:2fts) (4%), perfluorohexanoic acid (pfhxa) (4%), perfluoropentanesulfonic acid (pfpes) (3%), perfluoroheptanoic acid (pfhpa) (4%), perfluorohexanesulfonic acid (pfhxs) (4%), perfluorooctanoic acid (pfoa) (4%), 1h,1h,2h,2h-perfluorooctanesulfonic acid (6:2fts) (4%), perfluoroheptanesulfonic acid (pfhps) (3%), perfluorononanoic acid (pfna) (4%), perfluorooctanesulfonic acid (pfos) (5%), perfluorodecanoic acid (pfda) (4%), 1h,1h,2h,2h-perfluorodecanesulfonic acid (8:2fts) (3%), perfluorononanesulfonic acid (pfns) (3%), n-methyl perfluorooctanesulfonamidoacetic acid (nmefosaa) (4%), perfluoroundecanoic acid (pfuna) (4%), perfluorodecanesulfonic acid (pfds) (3%), perfluorooctanesulfonamide (pfosa) (3%), n-ethyl perfluorooctanesulfonamidoacetic acid (netfosaa) (2%), perfluorododecanoic acid (pfdoa) (4%), perfluorotridecanoic acid (pftrda) (3%), perfluorotetradecanoic acid (pfta) (4%), 2,3,3,3-tetrafluoro-2-[1,1,2,2,3,3,3-heptafluoropropoxy]-propanoic acid (hfpo-da) (4%), 4,8-dioxa-3h-perfluorononanoic acid (adona) (4%), perfluorododecane sulfonic acid (pfdods) (3%), 9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9cl-pf3ons) (3%), 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11cl-pf3ouds) (3%), n-methyl perfluorooctane sulfonamide (nmefosa) (3%), n-ethyl perfluorooctane sulfonamide (netfosa) (3%), n-methyl perfluorooctanesulfonamido ethanol (nmefose) (4%), n-ethyl perfluorooctanesulfonamido ethanol (netfose) (3%), perfluoro-3-methoxypropanoic acid (pfmpa) (4%), perfluoro-4-methoxybutanoic acid (pfmba) (3%), perfluoro(2-ethoxyethane)sulfonic acid (pfeesa) (3%), nonafluoro-3,6-dioxaheptanoic acid (nfdha) (5%), 3-perfluoropropyl propanoic acid (3:3ftca) (3%), 2h,2h,3h,3h-perfluorooctanoic acid (5:3ftca) (3%), and 3-perfluoroheptyl propanoic acid (7:3ftca) (4%); however, re-extraction could not be performed due to lack of additional sample. The low recoveries are believed to be isolated to the laboratory control spike; however, the

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Case Narrative (continued)

associated sample L2329036-12 (FB-01_04192023) is reported outside method compliance per client authorization. All results for these compounds are considered to have a potentially low bias.

The WG1773185-2 LCS recovery, associated with L2320936-01, -02, -04, -05, -06, and -08 through -11, is above the acceptance criteria for nonafluoro-3,6-dioxaheptanoic acid (nfdha) (160%); however, the associated samples are non-detect to the RL for this target analyte. The results of the original analysis are reported.

The WG1773185-3 LCS recovery, associated with L2320936-01, -02, -04, -05, -06, and -08 through -11, is above the acceptance criteria for nonafluoro-3,6-dioxaheptanoic acid (nfdha) (159%); however, the associated samples are non-detect to the RL for this target analyte. The results of the original analysis are reported.

Pesticides

L2320936-02: The internal standard (IS) response for 1-bromo-2-nitrobenzene (205%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences.

L2320936-05: The internal standard (IS) response for 1-bromo-2-nitrobenzene (221%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences.

L2320936-07: The internal standard (IS) response for 1-bromo-2-nitrobenzene (893%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (6%) and decachlorobiphenyl (6%) due to interference with the Internal Standard.

L2320936-08: The internal standard (IS) response for 1-bromo-2-nitrobenzene (2926%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (2%) and decachlorobiphenyl (2%) due to interference with the Internal Standard.

L2320936-11: The internal standard (IS) response for 1-bromo-2-nitrobenzene (474%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (20%) and decachlorobiphenyl (25%) due to interference with the Internal Standard.

L2320936-11: The surrogate recovery is outside the acceptance criteria for decachlorobiphenyl (157%);

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Case Narrative (continued)

however, the sample was not re-extracted due to coelution with obvious interferences.

WG1769774-4: The internal standard (IS) response for 1-bromo-2-nitrobenzene (653%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (11%) and decachlorobiphenyl (13%) due to interference with the Internal Standard.

WG1769774-4: The surrogate recovery is outside the acceptance criteria for decachlorobiphenyl (178%); however, the sample was not re-extracted due to coelution with obvious interferences.

WG1769774-5: The internal standard (IS) response for 1-bromo-2-nitrobenzene (847%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (9%) and decachlorobiphenyl (10%) due to interference with the Internal Standard.

Total Metals

L2320936-01, -02, and -04 through -11: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

L2320936-12: The Field Blank has a result for sodium present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

The WG1769133-3/-4 MS/MSD recoveries for aluminum (22%/306%), calcium (555%/0%), iron (0%/0%), and magnesium (203%/0%), performed on L2320936-11, do not apply because the sample concentrations are greater than four times the spike amounts added. The MS/MSD RPDs for calcium (37%) and magnesium (48%) are above the acceptance criteria.

The WG1769133-3/-4 MS/MSD recoveries, performed on L2320936-11, are outside the acceptance criteria for chromium (MS 69%), manganese (MS 71%), nickel (63%/66%), and zinc (MSD 128%). A post digestion spike was performed and was within acceptance criteria.

Cyanide, Total

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Case Narrative (continued)


The WG1771365-5 MSD recovery, performed on L2320936-04, is outside the acceptance criteria for cyanide, total (0%); however, the associated LCS recovery is within criteria. No further action was taken.

Hexavalent Chromium

The WG1769247-4/-5 Insoluble MS/MSD recoveries for chromium, hexavalent (53%/61%), performed on L2320936-11, are outside the acceptance criteria. The Soluble MS recovery for chromium, hexavalent (5%) was also outside criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 88%.

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: 05/11/23

ORGANICS

VOLATILES

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-01
 Client ID: LSB15A_16.5-18.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 04/24/23 10:45
 Analyst: AJK
 Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	9.6	4.4	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.28	1
Chloroform	ND		ug/kg	2.9	0.27	1
Carbon tetrachloride	ND		ug/kg	1.9	0.44	1
1,2-Dichloropropane	ND		ug/kg	1.9	0.24	1
Dibromochloromethane	ND		ug/kg	1.9	0.27	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.51	1
Tetrachloroethene	ND		ug/kg	0.96	0.38	1
Chlorobenzene	ND		ug/kg	0.96	0.24	1
Trichlorofluoromethane	ND		ug/kg	7.7	1.3	1
1,2-Dichloroethane	ND		ug/kg	1.9	0.49	1
1,1,1-Trichloroethane	ND		ug/kg	0.96	0.32	1
Bromodichloromethane	ND		ug/kg	0.96	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.9	0.52	1
cis-1,3-Dichloropropene	ND		ug/kg	0.96	0.30	1
1,3-Dichloropropene, Total	ND		ug/kg	0.96	0.30	1
1,1-Dichloropropene	ND		ug/kg	0.96	0.30	1
Bromoform	ND		ug/kg	7.7	0.47	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.96	0.32	1
Benzene	ND		ug/kg	0.96	0.32	1
Toluene	ND		ug/kg	1.9	1.0	1
Ethylbenzene	ND		ug/kg	1.9	0.27	1
Chloromethane	ND		ug/kg	7.7	1.8	1
Bromomethane	ND		ug/kg	3.8	1.1	1
Vinyl chloride	ND		ug/kg	1.9	0.64	1
Chloroethane	ND		ug/kg	3.8	0.87	1
1,1-Dichloroethene	ND		ug/kg	1.9	0.46	1
trans-1,2-Dichloroethene	ND		ug/kg	2.9	0.26	1

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-01
 Client ID: LSB15A_16.5-18.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:00
 Date Received: 04/19/23
 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	0.96	0.26	1
1,2-Dichlorobenzene	ND		ug/kg	3.8	0.28	1
1,3-Dichlorobenzene	ND		ug/kg	3.8	0.28	1
1,4-Dichlorobenzene	ND		ug/kg	3.8	0.33	1
Methyl tert butyl ether	ND		ug/kg	3.8	0.38	1
p/m-Xylene	ND		ug/kg	3.8	1.1	1
o-Xylene	ND		ug/kg	1.9	0.56	1
Xylenes, Total	ND		ug/kg	1.9	0.56	1
cis-1,2-Dichloroethene	ND		ug/kg	1.9	0.34	1
1,2-Dichloroethene, Total	ND		ug/kg	1.9	0.26	1
Dibromomethane	ND		ug/kg	3.8	0.46	1
Styrene	ND		ug/kg	1.9	0.38	1
Dichlorodifluoromethane	ND		ug/kg	19	1.8	1
Acetone	270		ug/kg	19	9.2	1
Carbon disulfide	ND		ug/kg	19	8.7	1
2-Butanone	65		ug/kg	19	4.2	1
Vinyl acetate	ND		ug/kg	19	4.1	1
4-Methyl-2-pentanone	ND		ug/kg	19	2.4	1
1,2,3-Trichloropropane	ND		ug/kg	3.8	0.24	1
2-Hexanone	ND		ug/kg	19	2.3	1
Bromochloromethane	ND		ug/kg	3.8	0.39	1
2,2-Dichloropropane	ND		ug/kg	3.8	0.39	1
1,2-Dibromoethane	ND		ug/kg	1.9	0.53	1
1,3-Dichloropropane	ND		ug/kg	3.8	0.32	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.96	0.25	1
Bromobenzene	ND		ug/kg	3.8	0.28	1
n-Butylbenzene	ND		ug/kg	1.9	0.32	1
sec-Butylbenzene	ND		ug/kg	1.9	0.28	1
tert-Butylbenzene	ND		ug/kg	3.8	0.23	1
o-Chlorotoluene	ND		ug/kg	3.8	0.37	1
p-Chlorotoluene	ND		ug/kg	3.8	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	1.9	1
Hexachlorobutadiene	ND		ug/kg	7.7	0.32	1
Isopropylbenzene	ND		ug/kg	1.9	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.9	0.21	1
Naphthalene	ND		ug/kg	7.7	1.2	1
Acrylonitrile	ND		ug/kg	7.7	2.2	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-01
Client ID: LSB15A_16.5-18.5
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:00
Date Received: 04/19/23
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	1.9	0.33	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.8	0.62	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.8	0.52	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.8	0.37	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.8	0.64	1
1,4-Dioxane	ND		ug/kg	150	67.	1
p-Diethylbenzene	ND		ug/kg	3.8	0.34	1
p-Ethyltoluene	ND		ug/kg	3.8	0.74	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.8	0.37	1
Ethyl ether	ND		ug/kg	3.8	0.65	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	9.6	2.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	108		70-130

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-02
 Client ID: LSB17A_14-16
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:25
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 04/24/23 11:11
 Analyst: AJK
 Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.5	3.4	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.22	1
Chloroform	ND		ug/kg	2.2	0.21	1
Carbon tetrachloride	ND		ug/kg	1.5	0.34	1
1,2-Dichloropropane	ND		ug/kg	1.5	0.19	1
Dibromochloromethane	ND		ug/kg	1.5	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.40	1
Tetrachloroethene	ND		ug/kg	0.75	0.29	1
Chlorobenzene	ND		ug/kg	0.75	0.19	1
Trichlorofluoromethane	ND		ug/kg	6.0	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.38	1
1,1,1-Trichloroethane	ND		ug/kg	0.75	0.25	1
Bromodichloromethane	ND		ug/kg	0.75	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.41	1
cis-1,3-Dichloropropene	ND		ug/kg	0.75	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	0.75	0.24	1
1,1-Dichloropropene	ND		ug/kg	0.75	0.24	1
Bromoform	ND		ug/kg	6.0	0.37	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.75	0.25	1
Benzene	ND		ug/kg	0.75	0.25	1
Toluene	ND		ug/kg	1.5	0.81	1
Ethylbenzene	ND		ug/kg	1.5	0.21	1
Chloromethane	ND		ug/kg	6.0	1.4	1
Bromomethane	ND		ug/kg	3.0	0.87	1
Vinyl chloride	ND		ug/kg	1.5	0.50	1
Chloroethane	ND		ug/kg	3.0	0.67	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.20	1

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-02
 Client ID: LSB17A_14-16
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:25
 Date Received: 04/19/23
 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	0.75	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	3.0	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	0.26	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.30	1
p/m-Xylene	ND		ug/kg	3.0	0.84	1
o-Xylene	ND		ug/kg	1.5	0.43	1
Xylenes, Total	ND		ug/kg	1.5	0.43	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.26	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	0.20	1
Dibromomethane	ND		ug/kg	3.0	0.36	1
Styrene	ND		ug/kg	1.5	0.29	1
Dichlorodifluoromethane	ND		ug/kg	15	1.4	1
Acetone	150		ug/kg	15	7.2	1
Carbon disulfide	ND		ug/kg	15	6.8	1
2-Butanone	39		ug/kg	15	3.3	1
Vinyl acetate	ND		ug/kg	15	3.2	1
4-Methyl-2-pentanone	ND		ug/kg	15	1.9	1
1,2,3-Trichloropropane	ND		ug/kg	3.0	0.19	1
2-Hexanone	ND		ug/kg	15	1.8	1
Bromochloromethane	ND		ug/kg	3.0	0.30	1
2,2-Dichloropropane	ND		ug/kg	3.0	0.30	1
1,2-Dibromoethane	ND		ug/kg	1.5	0.42	1
1,3-Dichloropropane	ND		ug/kg	3.0	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.75	0.20	1
Bromobenzene	ND		ug/kg	3.0	0.22	1
n-Butylbenzene	ND		ug/kg	1.5	0.25	1
sec-Butylbenzene	ND		ug/kg	1.5	0.22	1
tert-Butylbenzene	ND		ug/kg	3.0	0.18	1
o-Chlorotoluene	ND		ug/kg	3.0	0.28	1
p-Chlorotoluene	ND		ug/kg	3.0	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	1.5	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.25	1
Isopropylbenzene	ND		ug/kg	1.5	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.16	1
Naphthalene	ND		ug/kg	6.0	0.97	1
Acrylonitrile	ND		ug/kg	6.0	1.7	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-02
Client ID: LSB17A_14-16
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:25
Date Received: 04/19/23
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	3.0	0.48	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	0.40	1
1,3,5-Trimethylbenzene	0.29	J	ug/kg	3.0	0.29	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	0.50	1
1,4-Dioxane	ND		ug/kg	120	52.	1
p-Diethylbenzene	ND		ug/kg	3.0	0.26	1
p-Ethyltoluene	ND		ug/kg	3.0	0.57	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.0	0.28	1
Ethyl ether	ND		ug/kg	3.0	0.51	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.5	2.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	106		70-130

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-04
 Client ID: LSB20A_15-17
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 04/24/23 12:03
 Analyst: AJK
 Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	0.62	J	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	0.61	0.24	1
Chlorobenzene	ND		ug/kg	0.61	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	0.61	0.20	1
Bromodichloromethane	ND		ug/kg	0.61	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.61	0.19	1
Bromoform	ND		ug/kg	4.8	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	0.20	1
Benzene	ND		ug/kg	0.61	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		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	0.41	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	0.17	1

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-04
 Client ID: LSB20A_15-17
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:00
 Date Received: 04/19/23
 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	0.61	0.17	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	0.17	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	20		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	0.61	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: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-04
Client ID: LSB20A_15-17
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:00
Date Received: 04/19/23
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	43.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.47	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	6.1	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-05
 Client ID: DUP01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:05
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 04/24/23 12:29
 Analyst: AJK
 Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	0.76	J	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	0.54	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	0.30	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	0.27	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	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	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: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-05
 Client ID: DUP01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:05
 Date Received: 04/19/23
 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	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	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	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.99	1
Acetone	21		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	2.2	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	0.54	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	3.2	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	ND		ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-05
Client ID: DUP01_04192023
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:05
Date Received: 04/19/23
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	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.29	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	86	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	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-06
 Client ID: LSB20A_12-14
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:35
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 04/24/23 12:55
 Analyst: AJK
 Percent Solids: 78%

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	0.32	J	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	0.22	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	0.60	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	0.50	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: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-06
 Client ID: LSB20A_12-14
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:35
 Date Received: 04/19/23
 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	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	8.5	J	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	0.31	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	1.3	1

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-06
 Client ID: LSB20A_12-14
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:35
 Date Received: 04/19/23
 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	0.37	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	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-07
 Client ID: LSB18A_16.5-18.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 11:10
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 04/24/23 13:21
 Analyst: AJK
 Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.3	3.3	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.21	1
Chloroform	ND		ug/kg	2.2	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	0.39	1
Tetrachloroethene	ND		ug/kg	0.73	0.28	1
Chlorobenzene	ND		ug/kg	0.73	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.8	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.37	1
1,1,1-Trichloroethane	ND		ug/kg	0.73	0.24	1
Bromodichloromethane	ND		ug/kg	0.73	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.40	1
cis-1,3-Dichloropropene	ND		ug/kg	0.73	0.23	1
1,3-Dichloropropene, Total	ND		ug/kg	0.73	0.23	1
1,1-Dichloropropene	ND		ug/kg	0.73	0.23	1
Bromoform	ND		ug/kg	5.8	0.36	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.73	0.24	1
Benzene	ND		ug/kg	0.73	0.24	1
Toluene	ND		ug/kg	1.4	0.79	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.8	1.4	1
Bromomethane	ND		ug/kg	2.9	0.84	1
Vinyl chloride	ND		ug/kg	1.4	0.49	1
Chloroethane	ND		ug/kg	2.9	0.66	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.35	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.20	1

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-07
 Client ID: LSB18A_16.5-18.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 11:10
 Date Received: 04/19/23
 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	0.73	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	2.9	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	2.9	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	2.9	0.25	1
Methyl tert butyl ether	ND		ug/kg	2.9	0.29	1
p/m-Xylene	ND		ug/kg	2.9	0.82	1
o-Xylene	ND		ug/kg	1.4	0.42	1
Xylenes, Total	ND		ug/kg	1.4	0.42	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	2.9	0.35	1
Styrene	ND		ug/kg	1.4	0.28	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	18		ug/kg	14	7.0	1
Carbon disulfide	ND		ug/kg	14	6.6	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	1.9	1
1,2,3-Trichloropropane	ND		ug/kg	2.9	0.18	1
2-Hexanone	ND		ug/kg	14	1.7	1
Bromochloromethane	ND		ug/kg	2.9	0.30	1
2,2-Dichloropropane	ND		ug/kg	2.9	0.29	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.41	1
1,3-Dichloropropane	ND		ug/kg	2.9	0.24	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.73	0.19	1
Bromobenzene	ND		ug/kg	2.9	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	2.9	0.17	1
o-Chlorotoluene	ND		ug/kg	2.9	0.28	1
p-Chlorotoluene	ND		ug/kg	2.9	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.4	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.8	0.24	1
Isopropylbenzene	ND		ug/kg	1.4	0.16	1
p-Isopropyltoluene	0.23	J	ug/kg	1.4	0.16	1
Naphthalene	1.3	J	ug/kg	5.8	0.95	1
Acrylonitrile	ND		ug/kg	5.8	1.7	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-07
Client ID: LSB18A_16.5-18.5
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 11:10
Date Received: 04/19/23
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	0.25	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.9	0.47	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.9	0.40	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.9	0.28	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.9	0.49	1
1,4-Dioxane	ND		ug/kg	120	51.	1
p-Diethylbenzene	ND		ug/kg	2.9	0.26	1
p-Ethyltoluene	ND		ug/kg	2.9	0.56	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.9	0.28	1
Ethyl ether	ND		ug/kg	2.9	0.50	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.3	2.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	104		70-130

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-08
Client ID: LSB19A_18-20
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:00
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/24/23 13:47
Analyst: AJK
Percent Solids: 49%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	10	4.8	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.30	1
Chloroform	ND		ug/kg	3.1	0.29	1
Carbon tetrachloride	ND		ug/kg	2.1	0.48	1
1,2-Dichloropropane	ND		ug/kg	2.1	0.26	1
Dibromochloromethane	ND		ug/kg	2.1	0.29	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	0.56	1
Tetrachloroethene	ND		ug/kg	1.0	0.41	1
Chlorobenzene	ND		ug/kg	1.0	0.26	1
Trichlorofluoromethane	ND		ug/kg	8.3	1.4	1
1,2-Dichloroethane	ND		ug/kg	2.1	0.54	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35	1
Bromodichloromethane	ND		ug/kg	1.0	0.23	1
trans-1,3-Dichloropropene	ND		ug/kg	2.1	0.57	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.33	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.33	1
1,1-Dichloropropene	ND		ug/kg	1.0	0.33	1
Bromoform	ND		ug/kg	8.3	0.51	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.34	1
Benzene	ND		ug/kg	1.0	0.34	1
Toluene	ND		ug/kg	2.1	1.1	1
Ethylbenzene	ND		ug/kg	2.1	0.29	1
Chloromethane	ND		ug/kg	8.3	1.9	1
Bromomethane	ND		ug/kg	4.2	1.2	1
Vinyl chloride	ND		ug/kg	2.1	0.70	1
Chloroethane	ND		ug/kg	4.2	0.94	1
1,1-Dichloroethene	ND		ug/kg	2.1	0.50	1
trans-1,2-Dichloroethene	ND		ug/kg	3.1	0.28	1

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-08
 Client ID: LSB19A_18-20
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:00
 Date Received: 04/19/23
 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	1.0	0.28	1
1,2-Dichlorobenzene	ND		ug/kg	4.2	0.30	1
1,3-Dichlorobenzene	ND		ug/kg	4.2	0.31	1
1,4-Dichlorobenzene	ND		ug/kg	4.2	0.36	1
Methyl tert butyl ether	ND		ug/kg	4.2	0.42	1
p/m-Xylene	ND		ug/kg	4.2	1.2	1
o-Xylene	ND		ug/kg	2.1	0.61	1
Xylenes, Total	ND		ug/kg	2.1	0.61	1
cis-1,2-Dichloroethene	ND		ug/kg	2.1	0.36	1
1,2-Dichloroethene, Total	ND		ug/kg	2.1	0.28	1
Dibromomethane	ND		ug/kg	4.2	0.50	1
Styrene	ND		ug/kg	2.1	0.41	1
Dichlorodifluoromethane	ND		ug/kg	21	1.9	1
Acetone	110		ug/kg	21	10.	1
Carbon disulfide	10	J	ug/kg	21	9.5	1
2-Butanone	26		ug/kg	21	4.6	1
Vinyl acetate	ND		ug/kg	21	4.5	1
4-Methyl-2-pentanone	ND		ug/kg	21	2.7	1
1,2,3-Trichloropropane	ND		ug/kg	4.2	0.26	1
2-Hexanone	ND		ug/kg	21	2.4	1
Bromochloromethane	ND		ug/kg	4.2	0.43	1
2,2-Dichloropropane	ND		ug/kg	4.2	0.42	1
1,2-Dibromoethane	ND		ug/kg	2.1	0.58	1
1,3-Dichloropropane	ND		ug/kg	4.2	0.35	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.27	1
Bromobenzene	ND		ug/kg	4.2	0.30	1
n-Butylbenzene	ND		ug/kg	2.1	0.35	1
sec-Butylbenzene	ND		ug/kg	2.1	0.30	1
tert-Butylbenzene	0.44	J	ug/kg	4.2	0.24	1
o-Chlorotoluene	ND		ug/kg	4.2	0.40	1
p-Chlorotoluene	ND		ug/kg	4.2	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	2.1	1
Hexachlorobutadiene	ND		ug/kg	8.3	0.35	1
Isopropylbenzene	ND		ug/kg	2.1	0.23	1
p-Isopropyltoluene	2.1		ug/kg	2.1	0.23	1
Naphthalene	1.5	J	ug/kg	8.3	1.4	1
Acrylonitrile	ND		ug/kg	8.3	2.4	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-08
Client ID: LSB19A_18-20
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:00
Date Received: 04/19/23
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	2.1	0.36	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.2	0.67	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.2	0.57	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.2	0.40	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.2	0.70	1
1,4-Dioxane	ND		ug/kg	170	73.	1
p-Diethylbenzene	ND		ug/kg	4.2	0.37	1
p-Ethyltoluene	ND		ug/kg	4.2	0.80	1
1,2,4,5-Tetramethylbenzene	2.2	J	ug/kg	4.2	0.40	1
Ethyl ether	ND		ug/kg	4.2	0.71	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	10	3.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	103		70-130

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-09
 Client ID: LSB24A_16-18
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:30
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 04/24/23 14:13
 Analyst: AJK
 Percent Solids: 52%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	11	5.1	1
1,1-Dichloroethane	ND		ug/kg	2.2	0.32	1
Chloroform	ND		ug/kg	3.4	0.31	1
Carbon tetrachloride	ND		ug/kg	2.2	0.51	1
1,2-Dichloropropane	ND		ug/kg	2.2	0.28	1
Dibromochloromethane	ND		ug/kg	2.2	0.31	1
1,1,2-Trichloroethane	ND		ug/kg	2.2	0.60	1
Tetrachloroethene	ND		ug/kg	1.1	0.44	1
Chlorobenzene	ND		ug/kg	1.1	0.28	1
Trichlorofluoromethane	ND		ug/kg	8.9	1.6	1
1,2-Dichloroethane	ND		ug/kg	2.2	0.57	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.37	1
Bromodichloromethane	ND		ug/kg	1.1	0.24	1
trans-1,3-Dichloropropene	ND		ug/kg	2.2	0.61	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.35	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.35	1
1,1-Dichloropropene	ND		ug/kg	1.1	0.36	1
Bromoform	ND		ug/kg	8.9	0.55	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.37	1
Benzene	ND		ug/kg	1.1	0.37	1
Toluene	ND		ug/kg	2.2	1.2	1
Ethylbenzene	ND		ug/kg	2.2	0.32	1
Chloromethane	ND		ug/kg	8.9	2.1	1
Bromomethane	ND		ug/kg	4.5	1.3	1
Vinyl chloride	ND		ug/kg	2.2	0.75	1
Chloroethane	ND		ug/kg	4.5	1.0	1
1,1-Dichloroethene	ND		ug/kg	2.2	0.53	1
trans-1,2-Dichloroethene	ND		ug/kg	3.4	0.31	1

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-09
 Client ID: LSB24A_16-18
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:30
 Date Received: 04/19/23
 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	1.1	0.31	1
1,2-Dichlorobenzene	ND		ug/kg	4.5	0.32	1
1,3-Dichlorobenzene	ND		ug/kg	4.5	0.33	1
1,4-Dichlorobenzene	ND		ug/kg	4.5	0.38	1
Methyl tert butyl ether	ND		ug/kg	4.5	0.45	1
p/m-Xylene	ND		ug/kg	4.5	1.2	1
o-Xylene	ND		ug/kg	2.2	0.65	1
Xylenes, Total	ND		ug/kg	2.2	0.65	1
cis-1,2-Dichloroethene	ND		ug/kg	2.2	0.39	1
1,2-Dichloroethene, Total	ND		ug/kg	2.2	0.31	1
Dibromomethane	ND		ug/kg	4.5	0.53	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	22	2.0	1
Acetone	280		ug/kg	22	11.	1
Carbon disulfide	ND		ug/kg	22	10.	1
2-Butanone	74		ug/kg	22	5.0	1
Vinyl acetate	ND		ug/kg	22	4.8	1
4-Methyl-2-pentanone	ND		ug/kg	22	2.9	1
1,2,3-Trichloropropane	ND		ug/kg	4.5	0.28	1
2-Hexanone	ND		ug/kg	22	2.6	1
Bromochloromethane	ND		ug/kg	4.5	0.46	1
2,2-Dichloropropane	ND		ug/kg	4.5	0.45	1
1,2-Dibromoethane	ND		ug/kg	2.2	0.62	1
1,3-Dichloropropane	ND		ug/kg	4.5	0.37	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.30	1
Bromobenzene	ND		ug/kg	4.5	0.32	1
n-Butylbenzene	ND		ug/kg	2.2	0.37	1
sec-Butylbenzene	ND		ug/kg	2.2	0.33	1
tert-Butylbenzene	ND		ug/kg	4.5	0.26	1
o-Chlorotoluene	ND		ug/kg	4.5	0.43	1
p-Chlorotoluene	ND		ug/kg	4.5	0.24	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.7	2.2	1
Hexachlorobutadiene	ND		ug/kg	8.9	0.38	1
Isopropylbenzene	ND		ug/kg	2.2	0.24	1
p-Isopropyltoluene	ND		ug/kg	2.2	0.24	1
Naphthalene	ND		ug/kg	8.9	1.4	1
Acrylonitrile	ND		ug/kg	8.9	2.6	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-09
Client ID: LSB24A_16-18
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:30
Date Received: 04/19/23
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	2.2	0.38	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.5	0.72	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.5	0.61	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.5	0.43	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.5	0.75	1
1,4-Dioxane	ND		ug/kg	180	78.	1
p-Diethylbenzene	ND		ug/kg	4.5	0.40	1
p-Ethyltoluene	ND		ug/kg	4.5	0.86	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.5	0.43	1
Ethyl ether	ND		ug/kg	4.5	0.76	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	11	3.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	105		70-130

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-10
 Client ID: LSB27A_17-19
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 13:55
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 04/24/23 14:39
 Analyst: AJK
 Percent Solids: 83%

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	0.14	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	0.14	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	3.9	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	3.9	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	3.9	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	0.44	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: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-10
 Client ID: LSB27A_17-19
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 13:55
 Date Received: 04/19/23
 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	ND		ug/kg	0.96	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.88	1
Acetone	19		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	0.20	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	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.96	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.96	0.10	1
Naphthalene	ND		ug/kg	3.9	0.63	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-10
Client ID: LSB27A_17-19
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 13:55
Date Received: 04/19/23
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	0.19	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	ND		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	96		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-11
 Client ID: LSB16A_19.5-21.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:30
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 04/24/23 15:05
 Analyst: AJK
 Percent Solids: 84%

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	0.66	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	0.13	1
Chloromethane	ND		ug/kg	3.8	0.89	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: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-11
 Client ID: LSB16A_19.5-21.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:30
 Date Received: 04/19/23
 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	ND		ug/kg	0.96	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.88	1
Acetone	23		ug/kg	9.6	4.6	1
Carbon disulfide	5.6	J	ug/kg	9.6	4.4	1
2-Butanone	ND		ug/kg	9.6	2.1	1
Vinyl acetate	ND		ug/kg	9.6	2.0	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	0.22	J	ug/kg	0.96	0.10	1
Naphthalene	ND		ug/kg	3.8	0.62	1
Acrylonitrile	ND		ug/kg	3.8	1.1	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-11
Client ID: LSB16A_19.5-21.5
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:30
Date Received: 04/19/23
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	76	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	0.18	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	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	103		70-130

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-12
 Client ID: FB-01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 04/20/23 15:30
 Analyst: MJV

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
1,1,1,2,2-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: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-12
 Client ID: FB-01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:00
 Date Received: 04/19/23
 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: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-12
Client ID: FB-01_04192023
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:00
Date Received: 04/19/23
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	110		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	104		70-130

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-14
 Client ID: TB-01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 00:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 04/20/23 15:56
 Analyst: MJV

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
1,1,1,2,2-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: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-14
 Client ID: TB-01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 00:00
 Date Received: 04/19/23
 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: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-14
Client ID: TB-01_04192023
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 00:00
Date Received: 04/19/23
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	113		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	104		70-130

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/20/23 09:19
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12,14 Batch: WG1769387-5					
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: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/20/23 09:19
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12,14 Batch: WG1769387-5					
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: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/20/23 09:19
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12,14 Batch: WG1769387-5					
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	109		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	104		70-130

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/24/23 09:02
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-11 Batch: WG1770794-5					
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	0.24	J	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: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/24/23 09:02
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-11 Batch: WG1770794-5					
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: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/24/23 09:02
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-11 Batch: WG1770794-5					
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	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12,14 Batch: WG1769387-3 WG1769387-4								
Methylene chloride	97		98		70-130	1		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	99		100		70-130	1		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	82		85		63-130	4		20
1,1,2-Trichloroethane	89		91		70-130	2		20
Tetrachloroethene	95		96		70-130	1		20
Chlorobenzene	92		93		75-130	1		20
Trichlorofluoromethane	130		130		62-150	0		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	92		93		67-130	1		20
trans-1,3-Dichloropropene	85		89		70-130	5		20
cis-1,3-Dichloropropene	92		95		70-130	3		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	75		79		54-136	5		20
1,1,2,2-Tetrachloroethane	91		95		67-130	4		20
Benzene	100		100		70-130	0		20
Toluene	92		94		70-130	2		20
Ethylbenzene	93		94		70-130	1		20
Chloromethane	94		97		64-130	3		20
Bromomethane	73		81		39-139	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12,14 Batch: WG1769387-3 WG1769387-4								
Vinyl chloride	120		120		55-140	0		20
Chloroethane	130		130		55-138	0		20
1,1-Dichloroethene	120		120		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	98		100		70-130	2		20
1,2-Dichlorobenzene	88		92		70-130	4		20
1,3-Dichlorobenzene	88		92		70-130	4		20
1,4-Dichlorobenzene	87		92		70-130	6		20
Methyl tert butyl ether	95		100		63-130	5		20
p/m-Xylene	90		95		70-130	5		20
o-Xylene	90		90		70-130	0		20
cis-1,2-Dichloroethene	99		100		70-130	1		20
Dibromomethane	95		99		70-130	4		20
1,2,3-Trichloropropane	86		89		64-130	3		20
Acrylonitrile	95		98		70-130	3		20
Styrene	90		90		70-130	0		20
Dichlorodifluoromethane	110		120		36-147	9		20
Acetone	85		83		58-148	2		20
Carbon disulfide	120		120		51-130	0		20
2-Butanone	84		90		63-138	7		20
Vinyl acetate	120		120		70-130	0		20
4-Methyl-2-pentanone	77		80		59-130	4		20
2-Hexanone	72		75		57-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12,14 Batch: WG1769387-3 WG1769387-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	88		92		70-130	4		20
1,3-Dichloropropane	90		93		70-130	3		20
1,1,1,2-Tetrachloroethane	87		90		64-130	3		20
Bromobenzene	90		92		70-130	2		20
n-Butylbenzene	91		95		53-136	4		20
sec-Butylbenzene	90		94		70-130	4		20
tert-Butylbenzene	89		92		70-130	3		20
o-Chlorotoluene	92		95		70-130	3		20
p-Chlorotoluene	89		92		70-130	3		20
1,2-Dibromo-3-chloropropane	71		78		41-144	9		20
Hexachlorobutadiene	91		94		63-130	3		20
Isopropylbenzene	91		94		70-130	3		20
p-Isopropyltoluene	89		92		70-130	3		20
Naphthalene	79		86		70-130	8		20
n-Propylbenzene	93		95		69-130	2		20
1,2,3-Trichlorobenzene	84		92		70-130	9		20
1,2,4-Trichlorobenzene	85		90		70-130	6		20
1,3,5-Trimethylbenzene	88		92		64-130	4		20
1,2,4-Trimethylbenzene	89		92		70-130	3		20
1,4-Dioxane	82		90		56-162	9		20
p-Diethylbenzene	88		92		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Project Number: 100688801

Lab Number: L2320936

Report Date: 05/11/23

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12,14 Batch: WG1769387-3 WG1769387-4								
p-Ethyltoluene	92		94		70-130	2		20
1,2,4,5-Tetramethylbenzene	84		88		70-130	5		20
Ethyl ether	110		120		59-134	9		20
trans-1,4-Dichloro-2-butene	80		86		70-130	7		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	104		105		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	94		94		70-130
Dibromofluoromethane	104		104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-11 Batch: WG1770794-3 WG1770794-4								
Methylene chloride	85		87		70-130	2		30
1,1-Dichloroethane	89		92		70-130	3		30
Chloroform	89		92		70-130	3		30
Carbon tetrachloride	85		92		70-130	8		30
1,2-Dichloropropane	89		92		70-130	3		30
Dibromochloromethane	89		90		70-130	1		30
1,1,2-Trichloroethane	87		89		70-130	2		30
Tetrachloroethene	91		96		70-130	5		30
Chlorobenzene	89		92		70-130	3		30
Trichlorofluoromethane	86		93		70-139	8		30
1,2-Dichloroethane	87		88		70-130	1		30
1,1,1-Trichloroethane	89		95		70-130	7		30
Bromodichloromethane	90		92		70-130	2		30
trans-1,3-Dichloropropene	90		92		70-130	2		30
cis-1,3-Dichloropropene	93		94		70-130	1		30
1,1-Dichloropropene	89		96		70-130	8		30
Bromoform	86		88		70-130	2		30
1,1,2,2-Tetrachloroethane	85		87		70-130	2		30
Benzene	90		94		70-130	4		30
Toluene	87		91		70-130	4		30
Ethylbenzene	89		93		70-130	4		30
Chloromethane	83		88		52-130	6		30
Bromomethane	94		99		57-147	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-11 Batch: WG1770794-3 WG1770794-4								
Vinyl chloride	86		92		67-130	7		30
Chloroethane	92		98		50-151	6		30
1,1-Dichloroethene	89		96		65-135	8		30
trans-1,2-Dichloroethene	91		94		70-130	3		30
Trichloroethene	90		96		70-130	6		30
1,2-Dichlorobenzene	89		91		70-130	2		30
1,3-Dichlorobenzene	90		92		70-130	2		30
1,4-Dichlorobenzene	88		89		70-130	1		30
Methyl tert butyl ether	88		88		66-130	0		30
p/m-Xylene	89		94		70-130	5		30
o-Xylene	89		93		70-130	4		30
cis-1,2-Dichloroethene	89		95		70-130	7		30
Dibromomethane	90		90		70-130	0		30
Styrene	92		94		70-130	2		30
Dichlorodifluoromethane	79		86		30-146	8		30
Acetone	77		70		54-140	10		30
Carbon disulfide	84		90		59-130	7		30
2-Butanone	72		76		70-130	5		30
Vinyl acetate	80		80		70-130	0		30
4-Methyl-2-pentanone	87		84		70-130	4		30
1,2,3-Trichloropropane	83		84		68-130	1		30
2-Hexanone	76		74		70-130	3		30
Bromochloromethane	92		94		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-11 Batch: WG1770794-3 WG1770794-4								
2,2-Dichloropropane	88		92		70-130	4		30
1,2-Dibromoethane	92		94		70-130	2		30
1,3-Dichloropropane	88		90		69-130	2		30
1,1,1,2-Tetrachloroethane	89		91		70-130	2		30
Bromobenzene	88		90		70-130	2		30
n-Butylbenzene	89		94		70-130	5		30
sec-Butylbenzene	88		93		70-130	6		30
tert-Butylbenzene	88		93		70-130	6		30
o-Chlorotoluene	88		92		70-130	4		30
p-Chlorotoluene	87		90		70-130	3		30
1,2-Dibromo-3-chloropropane	84		85		68-130	1		30
Hexachlorobutadiene	92		97		67-130	5		30
Isopropylbenzene	87		93		70-130	7		30
p-Isopropyltoluene	89		94		70-130	5		30
Naphthalene	86		89		70-130	3		30
Acrylonitrile	77		79		70-130	3		30
n-Propylbenzene	89		94		70-130	5		30
1,2,3-Trichlorobenzene	93		95		70-130	2		30
1,2,4-Trichlorobenzene	94		94		70-130	0		30
1,3,5-Trimethylbenzene	86		91		70-130	6		30
1,2,4-Trimethylbenzene	88		92		70-130	4		30
1,4-Dioxane	98		99		65-136	1		30
p-Diethylbenzene	90		94		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Project Number: 100688801

Lab Number: L2320936

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-11 Batch: WG1770794-3 WG1770794-4								
p-Ethyltoluene	89		94		70-130	5		30
1,2,4,5-Tetramethylbenzene	89		93		70-130	4		30
Ethyl ether	89		90		67-130	1		30
trans-1,4-Dichloro-2-butene	88		94		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		92		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	99		98		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-11 QC Batch ID: WG1770794-6 WG1770794-7 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5												
Methylene chloride	ND	104	36	34	Q	45	42	Q	70-130	24		30
1,1-Dichloroethane	ND	104	51	49	Q	54	51	Q	70-130	6		30
Chloroform	ND	104	46	44	Q	52	49	Q	70-130	12		30
Carbon tetrachloride	ND	104	34	32	Q	30	28	Q	70-130	13		30
1,2-Dichloropropane	ND	104	42	40	Q	46	44	Q	70-130	11		30
Dibromochloromethane	ND	104	11	11	Q	17	16	Q	70-130	40	Q	30
1,1,2-Trichloroethane	ND	104	33	31	Q	39	37	Q	70-130	18		30
Tetrachloroethene	ND	104	26	25	Q	26	25	Q	70-130	0		30
Chlorobenzene	ND	104	15	15	Q	23	21	Q	70-130	39	Q	30
Trichlorofluoromethane	ND	104	56	54	Q	54	51	Q	70-139	4		30
1,2-Dichloroethane	ND	104	26	25	Q	40	37	Q	70-130	40	Q	30
1,1,1-Trichloroethane	ND	104	50	48	Q	49	46	Q	70-130	3		30
Bromodichloromethane	ND	104	21	20	Q	28	26	Q	70-130	31	Q	30
trans-1,3-Dichloropropene	ND	104	4.9	5	Q	11	11	Q	70-130	78	Q	30
cis-1,3-Dichloropropene	ND	104	7.7	7	Q	13	12	Q	70-130	50	Q	30
1,1-Dichloropropene	ND	104	33	31	Q	36	34	Q	70-130	10		30
Bromoform	ND	104	7.1	7	Q	11	10	Q	70-130	42	Q	30
1,1,2,2-Tetrachloroethane	ND	104	30	28	Q	32	30	Q	70-130	7		30
Benzene	ND	104	40	38	Q	47	44	Q	70-130	16		30
Toluene	ND	104	28	27	Q	33	32	Q	70-130	18		30
Ethylbenzene	ND	104	22	21	Q	25	24	Q	70-130	12		30
Chloromethane	ND	104	57	55		59	55		52-130	3		30
Bromomethane	ND	104	36	35	Q	38	35	Q	57-147	3		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-11 QC Batch ID: WG1770794-6 WG1770794-7 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5												
Vinyl chloride	ND	104	50	48	Q	55	52	Q	67-130	9		30
Chloroethane	ND	104	55	53		60	56		50-151	9		30
1,1-Dichloroethene	ND	104	47	45	Q	51	48	Q	65-135	9		30
trans-1,2-Dichloroethene	ND	104	22	22	Q	34	32	Q	70-130	41	Q	30
Trichloroethene	ND	104	26	25	Q	33	31	Q	70-130	23		30
1,2-Dichlorobenzene	ND	104	11	10	Q	13	13	Q	70-130	21		30
1,3-Dichlorobenzene	ND	104	9.1	9	Q	13	12	Q	70-130	32	Q	30
1,4-Dichlorobenzene	ND	104	7.1	7	Q	11	11	Q	70-130	47	Q	30
Methyl tert butyl ether	ND	104	56	54	Q	55	52	Q	66-130	2		30
p/m-Xylene	ND	208	41	20	Q	47	22	Q	70-130	14		30
o-Xylene	ND	208	45	22	Q	49	23	Q	70-130	9		30
cis-1,2-Dichloroethene	ND	104	24	23	Q	37	35	Q	70-130	41	Q	30
Dibromomethane	ND	104	18	18	Q	33	31	Q	70-130	56	Q	30
Styrene	ND	208	15	7	Q	18	8	Q	70-130	17		30
Dichlorodifluoromethane	ND	104	61	58		58	55		30-146	4		30
Acetone	23	104	83	58		100	77		54-140	22		30
Carbon disulfide	5.6J	104	29	28	Q	36	34	Q	59-130	23		30
2-Butanone	ND	104	43	41	Q	58	55	Q	70-130	30		30
Vinyl acetate	ND	104	ND	0	Q	ND	0	Q	70-130	NC		30
4-Methyl-2-pentanone	ND	104	44	42	Q	46	44	Q	70-130	6		30
1,2,3-Trichloropropane	ND	104	30	29	Q	33	31	Q	68-130	9		30
2-Hexanone	ND	104	24	23	Q	34	32	Q	70-130	33	Q	30
Bromochloromethane	ND	104	27	26	Q	41	39	Q	70-130	40	Q	30

Matrix Spike Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-11 QC Batch ID: WG1770794-6 WG1770794-7 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5												
2,2-Dichloropropane	ND	104	55	53	Q	53	50	Q	70-130	4		30
1,2-Dibromoethane	ND	104	13	13	Q	26	25	Q	70-130	67	Q	30
1,3-Dichloropropane	ND	104	23	22	Q	35	33	Q	69-130	39	Q	30
1,1,1,2-Tetrachloroethane	ND	104	28	27	Q	30	28	Q	70-130	6		30
Bromobenzene	ND	104	12	11	Q	18	17	Q	70-130	42	Q	30
n-Butylbenzene	ND	104	12	12	Q	13	12	Q	70-130	2		30
sec-Butylbenzene	ND	104	19	18	Q	17	16	Q	70-130	10		30
tert-Butylbenzene	ND	104	22	21	Q	19	18	Q	70-130	12		30
o-Chlorotoluene	ND	104	19	18	Q	20	19	Q	70-130	4		30
p-Chlorotoluene	ND	104	11	11	Q	16	15	Q	70-130	31	Q	30
1,2-Dibromo-3-chloropropane	ND	104	19	18	Q	22	21	Q	68-130	18		30
Hexachlorobutadiene	ND	104	6.7	6	Q	6.8	7	Q	67-130	2		30
Isopropylbenzene	ND	104	27	26	Q	24	23	Q	70-130	11		30
p-Isopropyltoluene	0.22J	104	18	18	Q	17	16	Q	70-130	8		30
Naphthalene	ND	104	8.8	8	Q	11	10	Q	70-130	22		30
Acrylonitrile	ND	104	21	20	Q	30	28	Q	70-130	33	Q	30
n-Propylbenzene	ND	104	20	20	Q	20	19	Q	70-130	2		30
1,2,3-Trichlorobenzene	ND	104	5.0	5	Q	6.3	6	Q	70-130	23		30
1,2,4-Trichlorobenzene	ND	104	4.9	5	Q	6.6	6	Q	70-130	30		30
1,3,5-Trimethylbenzene	ND	104	20	19	Q	19	18	Q	70-130	7		30
1,2,4-Trimethylbenzene	ND	104	18	17	Q	18	17	Q	70-130	1		30
1,4-Dioxane	ND	5210	4000	77		4500	84		65-136	10		30
p-Diethylbenzene	ND	104	13	13	Q	13	13	Q	70-130	2		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Project Number: 100688801

Lab Number: L2320936

Report Date: 05/11/23

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): 01-02,04-11 QC Batch ID: WG1770794-6 WG1770794-7 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5												
p-Ethyltoluene	ND	104	19	18	Q	19	18	Q	70-130	3		30
1,2,4,5-Tetramethylbenzene	ND	104	11	10	Q	11	10	Q	70-130	1		30
Ethyl ether	ND	104	45	44	Q	53	50	Q	67-130	16		30
trans-1,4-Dichloro-2-butene	ND	104	ND	0	Q	ND	0	Q	70-130	NC		30

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		95		70-130
4-Bromofluorobenzene	123		119		70-130
Dibromofluoromethane	100		101		70-130
Toluene-d8	102		99		70-130

SEMIVOLATILES

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-01
 Client ID: LSB15A_16.5-18.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 04/24/23 18:45
 Analyst: JG
 Percent Solids: 75%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 21:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	38.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	38.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	34.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	38.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	630	200	1
Hexachloroethane	ND		ug/kg	180	36.	1
Isophorone	ND		ug/kg	200	28.	1
Naphthalene	ND		ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	32.	1
NDPA/DPA	ND		ug/kg	180	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	76.	1
Butyl benzyl phthalate	ND		ug/kg	220	55.	1
Di-n-butylphthalate	ND		ug/kg	220	42.	1
Di-n-octylphthalate	ND		ug/kg	220	75.	1

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-01
 Client ID: LSB15A_16.5-18.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:00
 Date Received: 04/19/23
 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	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	ND		ug/kg	130	25.	1
Benzo(a)pyrene	ND		ug/kg	180	54.	1
Benzo(b)fluoranthene	ND		ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	180	34.	1
Anthracene	ND		ug/kg	130	43.	1
Benzo(ghi)perylene	ND		ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	31.	1
Pyrene	ND		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	28.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	91.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	42.	1
p-Chloro-m-cresol	ND		ug/kg	220	33.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	72.	1
2-Nitrophenol	ND		ug/kg	470	83.	1
4-Nitrophenol	ND		ug/kg	310	90.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	570	100	1
Pentachlorophenol	ND		ug/kg	180	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	34.	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-01
 Client ID: LSB15A_16.5-18.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:00
 Date Received: 04/19/23
 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	220	42.	1
Benzoic Acid	ND		ug/kg	710	220	1
Benzyl Alcohol	ND		ug/kg	220	67.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	33	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	62		18-120

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-01
 Client ID: LSB15A_16.5-18.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 144,1633
 Analytical Date: 05/05/23 17:26
 Analyst: RS
 Percent Solids: 75%

Extraction Method: EPA 1633
 Extraction Date: 05/02/23 08:15
 Cleanup Method: EPA 1633
 Cleanup Date: 05/04/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.782	0.049	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.391	0.055	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.196	0.042	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.782	0.079	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.196	0.045	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.196	0.023	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.196	0.023	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.196	0.058	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.196	0.051	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.782	0.274	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.196	0.036	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.196	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.196	0.078	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.196	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.782	0.379	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/g	0.196	0.042	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.196	0.098	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.196	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.196	0.031	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.196	0.042	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.196	0.081	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.196	0.040	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.196	0.052	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.196	0.104	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.782	0.096	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.782	0.143	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.196	0.038	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-01
Client ID: LSB15A_16.5-18.5
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:00
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.782	0.192	1
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.782	0.164	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.196	0.098	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.196	0.110	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.96	0.245	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.96	0.499	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.391	0.040	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.391	0.031	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/g	0.391	0.081	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.391	0.093	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.978	0.141	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.89	0.494	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.89	1.72	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-01
Client ID: LSB15A_16.5-18.5
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:00
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	88		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	87		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	87		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	106		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	90		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	105		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	86		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	90		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	85		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	83		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	91		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	85		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	122		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	92		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	86		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	68		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	91		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	76		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	54		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	87		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	58		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	60		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	78		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	67		20-150

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-02
 Client ID: LSB17A_14-16
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:25
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 04/24/23 19:11
 Analyst: JG
 Percent Solids: 75%

Extraction Method: EPA 3546
 Extraction Date: 04/23/23 03:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	220	21.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	26	J	ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	54.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-02
 Client ID: LSB17A_14-16
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:25
 Date Received: 04/19/23
 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	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	45.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	23	J	ug/kg	130	22.	1
Biphenyl	ND		ug/kg	490	28.	1
4-Chloroaniline	ND		ug/kg	220	39.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	ND		ug/kg	220	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	190	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	71.	1
2-Nitrophenol	ND		ug/kg	470	81.	1
4-Nitrophenol	ND		ug/kg	300	88.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-02
 Client ID: LSB17A_14-16
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:25
 Date Received: 04/19/23
 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	220	41.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	32	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	43		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	61		18-120

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-02
 Client ID: LSB17A_14-16
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:25
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 144,1633
 Analytical Date: 05/05/23 17:39
 Analyst: RS
 Percent Solids: 75%

Extraction Method: EPA 1633
 Extraction Date: 05/02/23 08:15
 Cleanup Method: EPA 1633
 Cleanup Date: 05/04/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.796	0.050	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.398	0.056	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.199	0.043	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.796	0.080	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.199	0.046	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.199	0.023	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.199	0.023	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.199	0.059	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.199	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.796	0.279	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.199	0.037	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.199	0.078	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.199	0.079	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.199	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.796	0.385	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/g	0.199	0.042	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.199	0.100	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.199	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.199	0.032	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.199	0.043	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.199	0.082	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.199	0.041	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.199	0.053	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.199	0.106	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.796	0.098	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.796	0.146	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.199	0.038	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-02
Client ID: LSB17A_14-16
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:25
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.796	0.195	1
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.796	0.166	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.199	0.100	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.199	0.111	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.99	0.249	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.99	0.508	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.398	0.041	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.398	0.031	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/g	0.398	0.083	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.398	0.095	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.996	0.143	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.98	0.502	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.98	1.75	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-02
 Client ID: LSB17A_14-16
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:25
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	90		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	94		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	93		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	97		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	93		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	109		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	93		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	92		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	87		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	90		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	99		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	86		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	95		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	101		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	96		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	81		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	110		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	87		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	64		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	90		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	74		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	78		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	93		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	87		20-150

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-04
 Client ID: LSB20A_15-17
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 04/24/23 15:38
 Analyst: JG
 Percent Solids: 73%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 21:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	26.	1
Hexachlorobenzene	ND		ug/kg	130	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	40.	1
1,3-Dichlorobenzene	ND		ug/kg	220	38.	1
1,4-Dichlorobenzene	ND		ug/kg	220	39.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	60.	1
2,4-Dinitrotoluene	ND		ug/kg	220	45.	1
2,6-Dinitrotoluene	ND		ug/kg	220	38.	1
Fluoranthene	ND		ug/kg	130	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	34.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	38.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	33.	1
Hexachlorocyclopentadiene	ND		ug/kg	640	200	1
Hexachloroethane	ND		ug/kg	180	36.	1
Isophorone	ND		ug/kg	200	29.	1
Naphthalene	ND		ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	33.	1
NDPA/DPA	ND		ug/kg	180	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	77.	1
Butyl benzyl phthalate	ND		ug/kg	220	56.	1
Di-n-butylphthalate	ND		ug/kg	220	42.	1
Di-n-octylphthalate	ND		ug/kg	220	76.	1

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-04
 Client ID: LSB20A_15-17
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:00
 Date Received: 04/19/23
 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	220	21.	1
Dimethyl phthalate	ND		ug/kg	220	47.	1
Benzo(a)anthracene	ND		ug/kg	130	25.	1
Benzo(a)pyrene	ND		ug/kg	180	54.	1
Benzo(b)fluoranthene	ND		ug/kg	130	38.	1
Benzo(k)fluoranthene	ND		ug/kg	130	36.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	180	34.	1
Anthracene	ND		ug/kg	130	44.	1
Benzo(ghi)perylene	ND		ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	22.	1
Phenanthrene	ND		ug/kg	130	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	26.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	31.	1
Pyrene	ND		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	510	29.	1
4-Chloroaniline	ND		ug/kg	220	41.	1
2-Nitroaniline	ND		ug/kg	220	43.	1
3-Nitroaniline	ND		ug/kg	220	42.	1
4-Nitroaniline	ND		ug/kg	220	93.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	270	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	28.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	42.	1
p-Chloro-m-cresol	ND		ug/kg	220	33.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	36.	1
2,4-Dimethylphenol	ND		ug/kg	220	74.	1
2-Nitrophenol	ND		ug/kg	480	84.	1
4-Nitrophenol	ND		ug/kg	310	91.	1
2,4-Dinitrophenol	ND		ug/kg	1100	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	580	110	1
Pentachlorophenol	ND		ug/kg	180	49.	1
Phenol	ND		ug/kg	220	34.	1
2-Methylphenol	ND		ug/kg	220	35.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	35.	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-04
 Client ID: LSB20A_15-17
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:00
 Date Received: 04/19/23
 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	220	43.	1
Benzoic Acid	ND		ug/kg	720	230	1
Benzyl Alcohol	ND		ug/kg	220	68.	1
Carbazole	ND		ug/kg	220	22.	1
1,4-Dioxane	ND		ug/kg	34	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	55		18-120

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-04
Client ID: LSB20A_15-17
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:00
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 144,1633
Analytical Date: 05/05/23 17:51
Analyst: RS
Percent Solids: 73%

Extraction Method: EPA 1633
Extraction Date: 05/02/23 08:15
Cleanup Method: EPA 1633
Cleanup Date: 05/04/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.792	0.050	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.396	0.055	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.198	0.043	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.792	0.080	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.198	0.046	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.198	0.023	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.198	0.023	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.198	0.059	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.198	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.792	0.277	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.198	0.036	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.198	0.078	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.198	0.078	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.198	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.792	0.383	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/g	0.198	0.042	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.198	0.099	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.198	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.198	0.032	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.198	0.043	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.198	0.082	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.198	0.040	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.198	0.052	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.198	0.105	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.792	0.097	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.792	0.145	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.198	0.038	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-04
Client ID: LSB20A_15-17
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:00
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.792	0.194	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.792	0.165	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.198	0.099	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.198	0.111	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.98	0.248	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.98	0.505	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.396	0.040	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.396	0.031	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/g	0.396	0.082	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.396	0.094	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.990	0.142	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.95	0.500	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.95	1.74	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-04
 Client ID: LSB20A_15-17
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	87		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	89		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	88		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	90		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	94		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	101		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	86		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	91		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	87		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	86		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	93		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	83		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	77		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	103		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	96		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	83		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	108		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	83		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	58		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	89		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	72		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	74		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	93		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	89		20-150

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-05
 Client ID: DUP01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:05
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 04/24/23 16:02
 Analyst: JG
 Percent Solids: 75%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 21:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	32	J	ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	220	21.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	57.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	870		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	54.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	73.	1

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-05
 Client ID: DUP01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:05
 Date Received: 04/19/23
 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	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	45.	1
Benzo(a)anthracene	390		ug/kg	130	24.	1
Benzo(a)pyrene	300		ug/kg	170	53.	1
Benzo(b)fluoranthene	340		ug/kg	130	36.	1
Benzo(k)fluoranthene	120	J	ug/kg	130	34.	1
Chrysene	400		ug/kg	130	22.	1
Acenaphthylene	39	J	ug/kg	170	33.	1
Anthracene	220		ug/kg	130	42.	1
Benzo(ghi)perylene	140	J	ug/kg	170	25.	1
Fluorene	75	J	ug/kg	220	21.	1
Phenanthrene	1000		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	33	J	ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	160	J	ug/kg	170	30.	1
Pyrene	840		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	28.	1
4-Chloroaniline	ND		ug/kg	220	39.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	89.	1
Dibenzofuran	23	J	ug/kg	220	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	22.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	190	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	71.	1
2-Nitrophenol	ND		ug/kg	470	81.	1
4-Nitrophenol	ND		ug/kg	300	88.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-05
 Client ID: DUP01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:05
 Date Received: 04/19/23
 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	220	41.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	22	J	ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	32	9.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		25-120
Phenol-d6	53		10-120
Nitrobenzene-d5	46		23-120
2-Fluorobiphenyl	51		30-120
2,4,6-Tribromophenol	55		10-136
4-Terphenyl-d14	43		18-120

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-05
Client ID: DUP01_04192023
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:05
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 144,1633
Analytical Date: 05/05/23 18:04
Analyst: RS
Percent Solids: 75%

Extraction Method: EPA 1633
Extraction Date: 05/02/23 08:15
Cleanup Method: EPA 1633
Cleanup Date: 05/04/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.785	0.050	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.393	0.055	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.196	0.042	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.785	0.079	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.196	0.046	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.196	0.023	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.196	0.023	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.196	0.058	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.196	0.051	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.785	0.275	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.196	0.036	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.196	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.196	0.078	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.196	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.785	0.380	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/g	0.196	0.042	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.196	0.098	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.196	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.196	0.031	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.196	0.042	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.196	0.081	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.196	0.040	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.196	0.052	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.196	0.104	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.785	0.097	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.785	0.144	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.196	0.038	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-05
Client ID: DUP01_04192023
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:05
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.785	0.192	1
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.785	0.164	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.196	0.098	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.196	0.110	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.96	0.246	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.96	0.501	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.393	0.040	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.393	0.031	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/g	0.393	0.082	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.393	0.093	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.982	0.141	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.91	0.495	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.91	1.73	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-05
 Client ID: DUP01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:05
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	91		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	101		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	105		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	102		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	95		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	113		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	91		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	96		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	86		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	90		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	94		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	110		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	51		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	80		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	93		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	50		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	66		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	76		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	31		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	93		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	32		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	32		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	48		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	41		20-150

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-06
 Client ID: LSB20A_12-14
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:35
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 04/24/23 16:26
 Analyst: JG
 Percent Solids: 78%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 21:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	37.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	57.	1
2,4-Dinitrotoluene	ND		ug/kg	210	43.	1
2,6-Dinitrotoluene	ND		ug/kg	210	37.	1
Fluoranthene	260		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	37	J	ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	74.	1
Butyl benzyl phthalate	ND		ug/kg	210	54.	1
Di-n-butylphthalate	ND		ug/kg	210	41.	1
Di-n-octylphthalate	ND		ug/kg	210	73.	1

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-06
 Client ID: LSB20A_12-14
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:35
 Date Received: 04/19/23
 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	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	45.	1
Benzo(a)anthracene	140		ug/kg	130	24.	1
Benzo(a)pyrene	120	J	ug/kg	170	52.	1
Benzo(b)fluoranthene	150		ug/kg	130	36.	1
Benzo(k)fluoranthene	43	J	ug/kg	130	34.	1
Chrysene	130		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	88	J	ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	160		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	83	J	ug/kg	170	30.	1
Pyrene	240		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	28.	1
4-Chloroaniline	ND		ug/kg	210	39.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	89.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	71.	1
2-Nitrophenol	ND		ug/kg	460	81.	1
4-Nitrophenol	ND		ug/kg	300	87.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-06
 Client ID: LSB20A_12-14
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:35
 Date Received: 04/19/23
 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	210	41.	1
Benzoic Acid	ND		ug/kg	690	220	1
Benzyl Alcohol	ND		ug/kg	210	66.	1
Carbazole	ND		ug/kg	210	21.	1
1,4-Dioxane	ND		ug/kg	32	9.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	54		18-120

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-06
 Client ID: LSB20A_12-14
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:35
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 144,1633
 Analytical Date: 05/05/23 18:17
 Analyst: RS
 Percent Solids: 78%

Extraction Method: EPA 1633
 Extraction Date: 05/02/23 08:42
 Cleanup Method: EPA 1633
 Cleanup Date: 05/04/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.774	0.049	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.387	0.054	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.193	0.042	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.774	0.078	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.193	0.045	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.193	0.022	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.193	0.022	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.193	0.057	1
Perfluorooctanoic Acid (PFOA)	0.124	J	ng/g	0.193	0.050	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.774	0.271	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.193	0.036	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.193	0.076	1
Perfluorooctanesulfonic Acid (PFOS)	0.108	J	ng/g	0.193	0.077	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.193	0.073	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.774	0.375	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/g	0.193	0.041	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.193	0.097	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.193	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.193	0.031	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.193	0.042	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.193	0.080	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.193	0.040	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.193	0.051	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.193	0.103	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.774	0.095	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.774	0.142	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.193	0.037	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-06
Client ID: LSB20A_12-14
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:35
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.774	0.190	1
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.774	0.162	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.193	0.097	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.193	0.108	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.93	0.242	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.93	0.494	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.387	0.040	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.387	0.030	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/g	0.387	0.081	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.387	0.092	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.967	0.139	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.84	0.488	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.84	1.70	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-06
 Client ID: LSB20A_12-14
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:35
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	81		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	81		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	82		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	83		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	83		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	103		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	82		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	84		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	79		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	73		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	84		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	110		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	119		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	100		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	95		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	74		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	100		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	85		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	61		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	80		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	65		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	68		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	87		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	75		20-150

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-07
 Client ID: LSB18A_16.5-18.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 11:10
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 04/24/23 16:50
 Analyst: JG
 Percent Solids: 73%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 21:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	26.	1
Hexachlorobenzene	ND		ug/kg	130	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	40.	1
1,3-Dichlorobenzene	ND		ug/kg	220	39.	1
1,4-Dichlorobenzene	ND		ug/kg	220	39.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	60.	1
2,4-Dinitrotoluene	ND		ug/kg	220	45.	1
2,6-Dinitrotoluene	ND		ug/kg	220	38.	1
Fluoranthene	200		ug/kg	130	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	34.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	38.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	33.	1
Hexachlorocyclopentadiene	ND		ug/kg	640	200	1
Hexachloroethane	ND		ug/kg	180	36.	1
Isophorone	ND		ug/kg	200	29.	1
Naphthalene	220		ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	33.	1
NDPA/DPA	ND		ug/kg	180	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	35.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	78.	1
Butyl benzyl phthalate	ND		ug/kg	220	56.	1
Di-n-butylphthalate	ND		ug/kg	220	42.	1
Di-n-octylphthalate	ND		ug/kg	220	76.	1

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-07
 Client ID: LSB18A_16.5-18.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 11:10
 Date Received: 04/19/23
 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	220	21.	1
Dimethyl phthalate	ND		ug/kg	220	47.	1
Benzo(a)anthracene	87	J	ug/kg	130	25.	1
Benzo(a)pyrene	84	J	ug/kg	180	55.	1
Benzo(b)fluoranthene	130		ug/kg	130	38.	1
Benzo(k)fluoranthene	46	J	ug/kg	130	36.	1
Chrysene	120	J	ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	180	35.	1
Anthracene	ND		ug/kg	130	44.	1
Benzo(ghi)perylene	58	J	ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	22.	1
Phenanthrene	93	J	ug/kg	130	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	26.	1
Indeno(1,2,3-cd)pyrene	65	J	ug/kg	180	31.	1
Pyrene	160		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	510	29.	1
4-Chloroaniline	ND		ug/kg	220	41.	1
2-Nitroaniline	ND		ug/kg	220	43.	1
3-Nitroaniline	ND		ug/kg	220	42.	1
4-Nitroaniline	ND		ug/kg	220	93.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	270	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	28.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	42.	1
p-Chloro-m-cresol	ND		ug/kg	220	33.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	36.	1
2,4-Dimethylphenol	ND		ug/kg	220	74.	1
2-Nitrophenol	ND		ug/kg	480	84.	1
4-Nitrophenol	ND		ug/kg	310	92.	1
2,4-Dinitrophenol	ND		ug/kg	1100	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	580	110	1
Pentachlorophenol	ND		ug/kg	180	49.	1
Phenol	ND		ug/kg	220	34.	1
2-Methylphenol	ND		ug/kg	220	35.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	35.	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-07
 Client ID: LSB18A_16.5-18.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 11:10
 Date Received: 04/19/23
 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	220	43.	1
Benzoic Acid	ND		ug/kg	730	230	1
Benzyl Alcohol	ND		ug/kg	220	69.	1
Carbazole	ND		ug/kg	220	22.	1
1,4-Dioxane	ND		ug/kg	34	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		25-120
Phenol-d6	50		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	47		30-120
2,4,6-Tribromophenol	52		10-136
4-Terphenyl-d14	39		18-120

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-07 RE
 Client ID: LSB18A_16.5-18.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 11:10
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 144,1633
 Analytical Date: 05/11/23 12:57
 Analyst: LMV
 Percent Solids: 73%

Extraction Method: EPA 1633
 Extraction Date: 05/10/23 13:00
 Cleanup Method: EPA 1633
 Cleanup Date: 05/10/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.797	0.050	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.398	0.056	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.199	0.043	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.797	0.081	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.199	0.046	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.199	0.023	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.199	0.023	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.199	0.059	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.199	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.797	0.279	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.199	0.037	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.199	0.078	1
Perfluorooctanesulfonic Acid (PFOS)	0.112	J	ng/g	0.199	0.079	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.199	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.797	0.386	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/g	0.199	0.042	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.199	0.100	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.199	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.199	0.032	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.199	0.043	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.199	0.082	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.199	0.041	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.199	0.053	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.199	0.106	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.797	0.098	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.797	0.146	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.199	0.038	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-07 RE
Client ID: LSB18A_16.5-18.5
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 11:10
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.797	0.195	1
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.797	0.166	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.199	0.100	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.199	0.112	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.99	0.249	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.99	0.508	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.398	0.041	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.398	0.031	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/g	0.398	0.083	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.398	0.095	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.996	0.143	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.98	0.503	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.98	1.75	1

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-07 RE

Date Collected: 04/19/23 11:10

Client ID: LSB18A_16.5-18.5

Date Received: 04/19/23

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	78		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	65		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	81		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	76		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	64		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	68		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	79		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	76		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	69		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	86		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	84		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	78		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	105		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	89		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	70		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	71		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	81		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	66		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	54		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	68		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	60		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	64		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	69		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	67		20-150

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-08
 Client ID: LSB19A_18-20
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 04/24/23 17:14
 Analyst: JG
 Percent Solids: 49%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 21:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	270	35.	1
1,2,4-Trichlorobenzene	ND		ug/kg	340	39.	1
Hexachlorobenzene	ND		ug/kg	200	38.	1
Bis(2-chloroethyl)ether	ND		ug/kg	310	46.	1
2-Chloronaphthalene	ND		ug/kg	340	34.	1
1,2-Dichlorobenzene	ND		ug/kg	340	61.	1
1,3-Dichlorobenzene	ND		ug/kg	340	59.	1
1,4-Dichlorobenzene	ND		ug/kg	340	60.	1
3,3'-Dichlorobenzidine	ND		ug/kg	340	91.	1
2,4-Dinitrotoluene	ND		ug/kg	340	68.	1
2,6-Dinitrotoluene	ND		ug/kg	340	59.	1
Fluoranthene	200		ug/kg	200	39.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	340	36.	1
4-Bromophenyl phenyl ether	ND		ug/kg	340	52.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	410	58.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	370	34.	1
Hexachlorobutadiene	ND		ug/kg	340	50.	1
Hexachlorocyclopentadiene	ND		ug/kg	980	310	1
Hexachloroethane	ND		ug/kg	270	55.	1
Isophorone	ND		ug/kg	310	44.	1
Naphthalene	200	J	ug/kg	340	42.	1
Nitrobenzene	ND		ug/kg	310	50.	1
NDPA/DPA	ND		ug/kg	270	39.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	340	53.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	340	120	1
Butyl benzyl phthalate	ND		ug/kg	340	86.	1
Di-n-butylphthalate	ND		ug/kg	340	65.	1
Di-n-octylphthalate	ND		ug/kg	340	120	1

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-08
 Client ID: LSB19A_18-20
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:00
 Date Received: 04/19/23
 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	340	32.	1
Dimethyl phthalate	ND		ug/kg	340	72.	1
Benzo(a)anthracene	120	J	ug/kg	200	38.	1
Benzo(a)pyrene	96	J	ug/kg	270	83.	1
Benzo(b)fluoranthene	110	J	ug/kg	200	58.	1
Benzo(k)fluoranthene	ND		ug/kg	200	55.	1
Chrysene	120	J	ug/kg	200	36.	1
Acenaphthylene	ND		ug/kg	270	53.	1
Anthracene	ND		ug/kg	200	67.	1
Benzo(ghi)perylene	60	J	ug/kg	270	40.	1
Fluorene	ND		ug/kg	340	33.	1
Phenanthrene	150	J	ug/kg	200	42.	1
Dibenzo(a,h)anthracene	ND		ug/kg	200	39.	1
Indeno(1,2,3-cd)pyrene	64	J	ug/kg	270	48.	1
Pyrene	180	J	ug/kg	200	34.	1
Biphenyl	ND		ug/kg	780	44.	1
4-Chloroaniline	ND		ug/kg	340	62.	1
2-Nitroaniline	ND		ug/kg	340	66.	1
3-Nitroaniline	ND		ug/kg	340	64.	1
4-Nitroaniline	ND		ug/kg	340	140	1
Dibenzofuran	ND		ug/kg	340	32.	1
2-Methylnaphthalene	53	J	ug/kg	410	41.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	340	36.	1
Acetophenone	ND		ug/kg	340	42.	1
2,4,6-Trichlorophenol	ND		ug/kg	200	65.	1
p-Chloro-m-cresol	ND		ug/kg	340	51.	1
2-Chlorophenol	ND		ug/kg	340	40.	1
2,4-Dichlorophenol	ND		ug/kg	310	55.	1
2,4-Dimethylphenol	ND		ug/kg	340	110	1
2-Nitrophenol	ND		ug/kg	740	130	1
4-Nitrophenol	ND		ug/kg	480	140	1
2,4-Dinitrophenol	ND		ug/kg	1600	160	1
4,6-Dinitro-o-cresol	ND		ug/kg	890	160	1
Pentachlorophenol	ND		ug/kg	270	75.	1
Phenol	ND		ug/kg	340	52.	1
2-Methylphenol	ND		ug/kg	340	53.	1
3-Methylphenol/4-Methylphenol	260	J	ug/kg	490	54.	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-08
 Client ID: LSB19A_18-20
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:00
 Date Received: 04/19/23
 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	340	65.	1
Benzoic Acid	ND		ug/kg	1100	340	1
Benzyl Alcohol	ND		ug/kg	340	100	1
Carbazole	ND		ug/kg	340	33.	1
1,4-Dioxane	ND		ug/kg	51	16.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	63		10-136
4-Terphenyl-d14	55		18-120

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-08
Client ID: LSB19A_18-20
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:00
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 144,1633
Analytical Date: 05/05/23 19:09
Analyst: RS
Percent Solids: 49%

Extraction Method: EPA 1633
Extraction Date: 05/02/23 08:52
Cleanup Method: EPA 1633
Cleanup Date: 05/04/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.792	0.050	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.396	0.055	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.198	0.043	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.792	0.080	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.198	0.046	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.198	0.023	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.198	0.023	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.198	0.059	1
Perfluorooctanoic Acid (PFOA)	0.071	J	ng/g	0.198	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.792	0.277	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.198	0.036	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.198	0.078	1
Perfluorooctanesulfonic Acid (PFOS)	0.103	J	ng/g	0.198	0.078	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.198	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.792	0.383	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/g	0.198	0.042	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.198	0.099	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.198	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.198	0.032	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.198	0.043	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.198	0.082	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.198	0.040	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.198	0.052	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.198	0.105	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.792	0.097	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.792	0.145	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.198	0.038	1

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-08
 Client ID: LSB19A_18-20
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.792	0.194	1
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.792	0.166	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.198	0.099	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.198	0.111	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.98	0.248	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.98	0.505	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.396	0.040	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.396	0.031	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/g	0.396	0.082	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.396	0.094	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.990	0.142	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.95	0.500	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.95	1.74	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-08
Client ID: LSB19A_18-20
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:00
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	85		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	86		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	91		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	91		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	86		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	102		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	89		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	87		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	89		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	91		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	93		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	83		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	97		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	103		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	79		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	77		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	104		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	86		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	54		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	88		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	68		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	68		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	82		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	87		20-150

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-09
 Client ID: LSB24A_16-18
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:30
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 04/24/23 17:38
 Analyst: JG
 Percent Solids: 52%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 21:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	260	33.	1
1,2,4-Trichlorobenzene	ND		ug/kg	320	37.	1
Hexachlorobenzene	ND		ug/kg	190	36.	1
Bis(2-chloroethyl)ether	ND		ug/kg	290	44.	1
2-Chloronaphthalene	ND		ug/kg	320	32.	1
1,2-Dichlorobenzene	ND		ug/kg	320	58.	1
1,3-Dichlorobenzene	ND		ug/kg	320	55.	1
1,4-Dichlorobenzene	ND		ug/kg	320	56.	1
3,3'-Dichlorobenzidine	ND		ug/kg	320	86.	1
2,4-Dinitrotoluene	ND		ug/kg	320	64.	1
2,6-Dinitrotoluene	ND		ug/kg	320	55.	1
Fluoranthene	ND		ug/kg	190	37.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	320	34.	1
4-Bromophenyl phenyl ether	ND		ug/kg	320	49.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	390	55.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	350	32.	1
Hexachlorobutadiene	ND		ug/kg	320	47.	1
Hexachlorocyclopentadiene	ND		ug/kg	920	290	1
Hexachloroethane	ND		ug/kg	260	52.	1
Isophorone	ND		ug/kg	290	42.	1
Naphthalene	ND		ug/kg	320	39.	1
Nitrobenzene	ND		ug/kg	290	48.	1
NDPA/DPA	ND		ug/kg	260	37.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	320	50.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	320	110	1
Butyl benzyl phthalate	ND		ug/kg	320	81.	1
Di-n-butylphthalate	ND		ug/kg	320	61.	1
Di-n-octylphthalate	ND		ug/kg	320	110	1

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-09
 Client ID: LSB24A_16-18
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:30
 Date Received: 04/19/23
 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	320	30.	1
Dimethyl phthalate	ND		ug/kg	320	68.	1
Benzo(a)anthracene	ND		ug/kg	190	36.	1
Benzo(a)pyrene	ND		ug/kg	260	79.	1
Benzo(b)fluoranthene	ND		ug/kg	190	54.	1
Benzo(k)fluoranthene	ND		ug/kg	190	52.	1
Chrysene	ND		ug/kg	190	34.	1
Acenaphthylene	ND		ug/kg	260	50.	1
Anthracene	ND		ug/kg	190	63.	1
Benzo(ghi)perylene	ND		ug/kg	260	38.	1
Fluorene	ND		ug/kg	320	31.	1
Phenanthrene	ND		ug/kg	190	39.	1
Dibenzo(a,h)anthracene	ND		ug/kg	190	37.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	260	45.	1
Pyrene	ND		ug/kg	190	32.	1
Biphenyl	ND		ug/kg	730	42.	1
4-Chloroaniline	ND		ug/kg	320	59.	1
2-Nitroaniline	ND		ug/kg	320	62.	1
3-Nitroaniline	ND		ug/kg	320	61.	1
4-Nitroaniline	ND		ug/kg	320	130	1
Dibenzofuran	ND		ug/kg	320	30.	1
2-Methylnaphthalene	ND		ug/kg	390	39.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	320	34.	1
Acetophenone	ND		ug/kg	320	40.	1
2,4,6-Trichlorophenol	ND		ug/kg	190	61.	1
p-Chloro-m-cresol	ND		ug/kg	320	48.	1
2-Chlorophenol	ND		ug/kg	320	38.	1
2,4-Dichlorophenol	ND		ug/kg	290	52.	1
2,4-Dimethylphenol	ND		ug/kg	320	110	1
2-Nitrophenol	ND		ug/kg	700	120	1
4-Nitrophenol	ND		ug/kg	450	130	1
2,4-Dinitrophenol	ND		ug/kg	1500	150	1
4,6-Dinitro-o-cresol	ND		ug/kg	840	150	1
Pentachlorophenol	ND		ug/kg	260	71.	1
Phenol	ND		ug/kg	320	49.	1
2-Methylphenol	ND		ug/kg	320	50.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	460	50.	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-09
 Client ID: LSB24A_16-18
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:30
 Date Received: 04/19/23
 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	320	62.	1
Benzoic Acid	ND		ug/kg	1000	330	1
Benzyl Alcohol	ND		ug/kg	320	99.	1
Carbazole	ND		ug/kg	320	31.	1
1,4-Dioxane	ND		ug/kg	48	15.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	57		18-120

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-09
Client ID: LSB24A_16-18
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:30
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 144,1633
Analytical Date: 05/05/23 19:21
Analyst: RS
Percent Solids: 52%

Extraction Method: EPA 1633
Extraction Date: 05/02/23 09:13
Cleanup Method: EPA 1633
Cleanup Date: 05/04/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.798	0.050	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.399	0.056	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.200	0.043	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.798	0.081	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.200	0.046	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.200	0.023	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.200	0.023	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.200	0.059	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.200	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.798	0.279	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.200	0.037	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.200	0.078	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.200	0.079	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.200	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.798	0.386	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/g	0.200	0.042	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.200	0.100	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.200	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.200	0.032	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.200	0.043	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.200	0.082	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.200	0.041	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.200	0.053	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.200	0.106	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.798	0.098	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.798	0.146	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.200	0.038	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-09
Client ID: LSB24A_16-18
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:30
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.798	0.196	1
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.798	0.167	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.200	0.100	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.200	0.112	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.00	0.250	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.00	0.509	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.399	0.041	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.399	0.031	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/g	0.399	0.083	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.399	0.095	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.998	0.144	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.99	0.504	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.99	1.76	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-09
 Client ID: LSB24A_16-18
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:30
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	82		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	84		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	86		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	85		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	90		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	95		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	82		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	86		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	75		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	88		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	81		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	86		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	76		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	90		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	108		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	70		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	105		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	87		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	62		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	82		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	67		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	72		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	82		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	79		20-150

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-10
 Client ID: LSB27A_17-19
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 13:55
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 04/24/23 18:02
 Analyst: JG
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 21:20

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	29.	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: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-10
 Client ID: LSB27A_17-19
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 13:55
 Date Received: 04/19/23
 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	48.	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: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-10
Client ID: LSB27A_17-19
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 13:55
Date Received: 04/19/23
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	70		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	59		18-120

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-10
Client ID: LSB27A_17-19
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 13:55
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 144,1633
Analytical Date: 05/05/23 19:34
Analyst: RS
Percent Solids: 83%

Extraction Method: EPA 1633
Extraction Date: 05/02/23 09:17
Cleanup Method: EPA 1633
Cleanup Date: 05/04/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.797	0.050	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.398	0.056	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.199	0.043	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.797	0.081	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.199	0.046	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.199	0.023	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.199	0.023	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.199	0.059	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.199	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.797	0.279	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.199	0.037	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.199	0.078	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.199	0.079	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.199	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.797	0.386	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/g	0.199	0.042	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.199	0.100	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.199	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.199	0.032	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.199	0.043	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.199	0.082	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.199	0.041	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.199	0.053	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.199	0.106	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.797	0.098	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.797	0.146	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.199	0.038	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-10
Client ID: LSB27A_17-19
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 13:55
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.797	0.195	1
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.797	0.166	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.199	0.100	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.199	0.112	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.99	0.249	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.99	0.508	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.398	0.041	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.398	0.031	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/g	0.398	0.083	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.398	0.095	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.996	0.143	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.98	0.503	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.98	1.75	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-10
Client ID: LSB27A_17-19
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 13:55
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	83		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	85		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	86		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	86		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	90		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	98		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	84		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	88		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	79		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	77		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	96		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	83		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	69		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	87		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	82		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	76		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	91		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	73		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	54		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	84		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	82		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	77		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	103		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	89		20-150

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-11
 Client ID: LSB16A_19.5-21.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:30
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 04/24/23 18:26
 Analyst: JG
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 21:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	310		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	26.	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	1200		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	230	33.	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	25.	1
Naphthalene	100	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	49.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	66.	1

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-11
 Client ID: LSB16A_19.5-21.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:30
 Date Received: 04/19/23
 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	580		ug/kg	120	22.	1
Benzo(a)pyrene	510		ug/kg	160	48.	1
Benzo(b)fluoranthene	520		ug/kg	120	33.	1
Benzo(k)fluoranthene	140		ug/kg	120	31.	1
Chrysene	600		ug/kg	120	20.	1
Acenaphthylene	58	J	ug/kg	160	30.	1
Anthracene	390		ug/kg	120	38.	1
Benzo(ghi)perylene	280		ug/kg	160	23.	1
Fluorene	330		ug/kg	200	19.	1
Phenanthrene	1400		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	47	J	ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	270		ug/kg	160	27.	1
Pyrene	1400		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	25.	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	63	J	ug/kg	200	18.	1
2-Methylnaphthalene	140	J	ug/kg	230	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	31.	1
2,4-Dimethylphenol	ND		ug/kg	200	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	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: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-11
 Client ID: LSB16A_19.5-21.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:30
 Date Received: 04/19/23
 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	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	32	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	64		10-136
4-Terphenyl-d14	47		18-120

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-11
 Client ID: LSB16A_19.5-21.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:30
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 144,1633
 Analytical Date: 05/05/23 19:47
 Analyst: RS
 Percent Solids: 84%

Extraction Method: EPA 1633
 Extraction Date: 05/02/23 09:23
 Cleanup Method: EPA 1633
 Cleanup Date: 05/04/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.798	0.050	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.399	0.056	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.200	0.043	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.798	0.081	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.200	0.046	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.200	0.023	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.200	0.023	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.200	0.059	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.200	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.798	0.279	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.200	0.037	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.200	0.078	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.200	0.079	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.200	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.798	0.386	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/g	0.200	0.042	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.200	0.100	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.200	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.200	0.032	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.200	0.043	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.200	0.082	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.200	0.041	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.200	0.053	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.200	0.106	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.798	0.098	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.798	0.146	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.200	0.038	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-11
Client ID: LSB16A_19.5-21.5
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:30
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.798	0.196	1
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.798	0.167	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.200	0.100	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.200	0.112	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.00	0.250	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.00	0.509	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.399	0.041	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.399	0.031	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/g	0.399	0.083	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.399	0.095	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.998	0.144	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.99	0.504	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.99	1.76	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-11
 Client ID: LSB16A_19.5-21.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:30
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	91		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	96		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	94		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	97		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	98		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	115		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	91		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	92		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	93		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	83		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	96		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	85		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	97		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	107		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	98		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	83		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	103		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	98		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	71		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	99		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	68		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	76		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	101		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	87		20-150

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-12
 Client ID: FB-01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 04/26/23 15:23
 Analyst: IM

Extraction Method: EPA 3510C
 Extraction Date: 04/26/23 00:15

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: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-12
 Client ID: FB-01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:00
 Date Received: 04/19/23
 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	7.3	J	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	54		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	45		10-120
4-Terphenyl-d14	62		41-149

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-12
 Client ID: FB-01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 04/26/23 13:03
 Analyst: JJW

Extraction Method: EPA 3510C
 Extraction Date: 04/26/23 00:15

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: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-12
 Client ID: FB-01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:00
 Date Received: 04/19/23
 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	44		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	68		41-149

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-12
 Client ID: FB-01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 04/26/23 17:52
 Analyst: TPR

Extraction Method: EPA 3510C
 Extraction Date: 04/24/23 11:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	32.6	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			47		15-110	

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-12
Client ID: FB-01_04192023
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:00
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 144,1633
Analytical Date: 05/01/23 20:10
Analyst: JW

Extraction Method: EPA 1633
Extraction Date: 04/30/23 04:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	5.95	0.951	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.97	0.795	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.49	0.498	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	5.95	1.55	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.49	0.438	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.49	0.260	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.49	0.297	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.49	0.357	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.49	0.647	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	5.95	2.01	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.49	0.401	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.49	0.468	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.49	0.676	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.49	0.602	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	5.95	2.31	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/l	1.49	0.461	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.49	0.810	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.49	0.647	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.49	0.342	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.49	0.401	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.49	0.803	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.49	0.684	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.49	0.557	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.49	0.394	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	5.95	0.832	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	5.95	0.936	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.49	0.565	1

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-12
 Client ID: FB-01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	5.95	1.23	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	5.95	1.23	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.49	0.647	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.49	0.684	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	14.9	3.49	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	14.9	1.82	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	2.97	0.424	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	2.97	0.394	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/l	2.97	0.327	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	2.97	1.75	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.43	2.45	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	37.2	8.70	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	37.2	5.86	1

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-12
 Client ID: FB-01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	94		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	91		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	91		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	92		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	96		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	100		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	90		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	91		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	90		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	79		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	91		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	89		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	89		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	92		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	78		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	88		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	72		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	81		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	76		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	81		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	67		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	76		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	82		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	94		20-150

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-13
 Client ID: EB-01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 04/26/23 18:14
 Analyst: TPR

Extraction Method: EPA 3510C
 Extraction Date: 04/24/23 11:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	32.6	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			45		15-110	

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-13 RE

Date Collected: 04/19/23 14:00

Client ID: EB-01_04192023

Date Received: 04/19/23

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 1633

Analytical Method: 144,1633

Extraction Date: 05/02/23 07:05

Analytical Date: 05/02/23 22:26

Analyst: RS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	6.06	0.969	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	3.03	0.810	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.51	0.507	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.06	1.58	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.51	0.446	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.51	0.265	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.51	0.303	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.51	0.363	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.51	0.658	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.06	2.04	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.51	0.409	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.51	0.477	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.51	0.689	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.51	0.613	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.06	2.35	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/l	1.51	0.469	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.51	0.825	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.51	0.658	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.51	0.348	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.51	0.409	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.51	0.817	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.51	0.696	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.51	0.568	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.51	0.401	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.06	0.848	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.06	0.954	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.51	0.575	1

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-13 RE

Date Collected: 04/19/23 14:00

Client ID: EB-01_04192023

Date Received: 04/19/23

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.06	1.25	1
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.06	1.25	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.51	0.658	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.51	0.696	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	15.1	3.56	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	15.1	1.85	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.03	0.431	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.03	0.401	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/l	3.03	0.333	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.03	1.79	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.57	2.50	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	37.8	8.86	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	37.8	5.97	1

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-13 RE

Date Collected: 04/19/23 14:00

Client ID: EB-01_04192023

Date Received: 04/19/23

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	76		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	70		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	70		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	69		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	68		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	80		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	73		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	78		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	72		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	70		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	73		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	63		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	84		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	71		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	62		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	63		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	77		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	51		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	38		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	72		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	48		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	51		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	69		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	65		20-150

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/23/23 21:10
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 04/22/23 04:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-11 Batch: WG1769789-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	140	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	18.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	140	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	140	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/23/23 21:10
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 04/22/23 04:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-11 Batch: WG1769789-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	39.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	22.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	21.
4-Chloroaniline	ND		ug/kg	160	29.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	30.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	140	26.
2,4-Dimethylphenol	ND		ug/kg	160	53.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270E
Analytical Date: 04/23/23 21:10
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 04/22/23 04:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-11 Batch: WG1769789-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	75.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	49.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	54		23-120
2-Fluorobiphenyl	56		30-120
2,4,6-Tribromophenol	59		10-136
4-Terphenyl-d14	62		18-120

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 04/26/23 10:44
Analyst: TPR

Extraction Method: EPA 3510C
Extraction Date: 04/24/23 11:47

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270E-SIM - Mansfield Lab for sample(s): 12-13 Batch: WG1770315-1					
1,4-Dioxane	ND		ng/l	150	33.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	53		15-110

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/26/23 13:26
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 04/26/23 00:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1771130-1					
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	2.4	J	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: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/26/23 13:26
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 04/26/23 00:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1771130-1					
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: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/26/23 13:26
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 04/26/23 00:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1771130-1					
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	54		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	57		15-120
2,4,6-Tribromophenol	62		10-120
4-Terphenyl-d14	59		41-149

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 04/26/23 12:47
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 04/26/23 00:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 12 Batch: WG1771132-1					
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: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 04/26/23 12:47
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 04/26/23 00:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 12 Batch: WG1771132-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	80		10-120
4-Terphenyl-d14	73		41-149

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 144,1633
Analytical Date: 05/01/23 16:07
Analyst: JW

Extraction Method: EPA 1633
Extraction Date: 04/30/23 04:55

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 12 Batch: WG1772881-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	6.40	1.02
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	3.20	0.856
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.60	0.536
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.40	1.67
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.60	0.472
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.60	0.280
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.60	0.320
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.60	0.384
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.60	0.696
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.40	2.16
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.60	0.432
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.60	0.504
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.60	0.728
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.60	0.648
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.40	2.49
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.60	0.496
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.60	0.872
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.60	0.696
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.60	0.368
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.60	0.432
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.60	0.864
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.60	0.736
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.60	0.600
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.60	0.424
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.40	0.896
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.40	1.01
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.60	0.608

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 144,1633
Analytical Date: 05/01/23 16:07
Analyst: JW

Extraction Method: EPA 1633
Extraction Date: 04/30/23 04:55

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 12 Batch: WG1772881-1					
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.40	1.32
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.40	1.32
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.60	0.696
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.60	0.736
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	16.0	3.76
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	16.0	1.96
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.20	0.456
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.20	0.424
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	3.20	0.352
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.20	1.89
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	8.00	2.64
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	40.0	9.36
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	40.0	6.31

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 05/01/23 16:07
Analyst: JW

Extraction Method: EPA 1633
Extraction Date: 04/30/23 04:55

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 12 Batch: WG1772881-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	95		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	96		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	85		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	90		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	95		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	92		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	94		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	88		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	92		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	90		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	92		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	86		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	85		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	84		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	94		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	88		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	72		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	94		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	89		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	85		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	67		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	71		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	78		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	84		20-150

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 05/09/23 17:53
Analyst: LMV

Extraction Method: EPA 1633
Extraction Date: 05/02/23 08:15
Cleanup Method: EPA 1633
Cleanup Date: 05/04/23

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-02,04-06,08-11 Batch: WG1773185-1 R					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.800	0.050
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.400	0.056
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.200	0.043
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.800	0.081
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.200	0.046
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.200	0.023
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.200	0.023
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.200	0.059
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.200	0.052
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.800	0.280
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.200	0.037
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.200	0.078
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.200	0.079
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.200	0.075
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.800	0.387
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.200	0.042
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.200	0.100
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.200	0.051
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.200	0.032
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.200	0.043
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.200	0.082
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.200	0.041
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.200	0.053
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.200	0.106
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.800	0.098
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.800	0.146

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 05/09/23 17:53
Analyst: LMV

Extraction Method: EPA 1633
Extraction Date: 05/02/23 08:15
Cleanup Method: EPA 1633
Cleanup Date: 05/04/23

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-02,04-06,08-11 Batch: WG1773185-1 R					
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.200	0.038
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.800	0.196
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.800	0.167
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.200	0.100
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.200	0.112
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.00	0.250
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.00	0.510
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.400	0.041
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.400	0.031
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.400	0.083
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.400	0.095
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	1.00	0.144
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	5.00	0.505
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	5.00	1.76

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 144,1633
Analytical Date: 05/09/23 17:53
Analyst: LMV

Extraction Method: EPA 1633
Extraction Date: 05/02/23 08:15
Cleanup Method: EPA 1633
Cleanup Date: 05/04/23

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-02,04-06,08-11 Batch: WG1773185-1 R					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	94		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	91		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	97		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	96		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	98		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	130		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	94		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	97		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	92		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	88		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOSA)	91		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	109		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	73		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	105		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	106		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOA)	90		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	104		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	78		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	54		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	104		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	85		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	83		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	137		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	124		20-150

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 05/02/23 17:46
Analyst: RS

Extraction Method: EPA 1633
Extraction Date: 05/02/23 07:05

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 13 Batch: WG1773503-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	6.40	1.02
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	3.20	0.856
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.60	0.536
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.40	1.67
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.60	0.472
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.60	0.280
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.60	0.320
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.60	0.384
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.60	0.696
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.40	2.16
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.60	0.432
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.60	0.504
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.60	0.728
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.60	0.648
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.40	2.49
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.60	0.496
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.60	0.872
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.60	0.696
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.60	0.368
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.60	0.432
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.60	0.864
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.60	0.736
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.60	0.600
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.60	0.424
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.40	0.896
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.40	1.01
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.60	0.608

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 05/02/23 17:46
Analyst: RS

Extraction Method: EPA 1633
Extraction Date: 05/02/23 07:05

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 13 Batch: WG1773503-1					
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.40	1.32
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.40	1.32
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.60	0.696
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.60	0.736
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	16.0	3.76
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	16.0	1.96
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.20	0.456
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.20	0.424
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	3.20	0.352
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.20	1.89
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	8.00	2.64
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	40.0	9.36
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	40.0	6.31

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 05/02/23 17:46
Analyst: RS

Extraction Method: EPA 1633
Extraction Date: 05/02/23 07:05

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 13 Batch: WG1773503-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	84		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	84		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	87		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	88		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	87		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	84		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	81		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	81		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	85		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	88		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	84		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	85		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	69		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	67		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	89		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	64		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	72		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	88		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	61		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	83		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	46		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	48		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	69		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	70		20-150

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 05/11/23 12:19
Analyst: LMV

Extraction Method: EPA 1633
Extraction Date: 05/10/23 13:00
Cleanup Method: EPA 1633
Cleanup Date: 05/10/23

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 07 Batch: WG1777187-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.800	0.050
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.400	0.056
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.200	0.043
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.800	0.081
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.200	0.046
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.200	0.023
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.200	0.023
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.200	0.059
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.200	0.052
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.800	0.280
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.200	0.037
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.200	0.078
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.200	0.079
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.200	0.075
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.800	0.387
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.200	0.042
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.200	0.100
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.200	0.051
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.200	0.032
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.200	0.043
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.200	0.082
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.200	0.041
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.200	0.053
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.200	0.106
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.800	0.098
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.800	0.146
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.200	0.038

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 05/11/23 12:19
Analyst: LMV

Extraction Method: EPA 1633
Extraction Date: 05/10/23 13:00
Cleanup Method: EPA 1633
Cleanup Date: 05/10/23

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 07 Batch: WG1777187-1					
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.800	0.196
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.800	0.167
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.200	0.100
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.200	0.112
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.00	0.250
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.00	0.510
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.400	0.041
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.400	0.031
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.400	0.083
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.400	0.095
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	1.00	0.144
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	5.00	0.505
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	5.00	1.76

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 05/11/23 12:19
Analyst: LMV

Extraction Method: EPA 1633
Extraction Date: 05/10/23 13:00
Cleanup Method: EPA 1633
Cleanup Date: 05/10/23

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 07 Batch: WG1777187-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	37		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	39		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	36		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	35		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	38		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	38		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	36		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	34		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	30		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	32		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	33		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	34		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	28		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	28		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	33		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	30		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	27		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	27		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	18	Q	20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	38		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	22		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	22		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	25		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	26		20-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-11 Batch: WG1769789-2 WG1769789-3								
Acenaphthene	84		73		31-137	14		50
1,2,4-Trichlorobenzene	74		63		38-107	16		50
Hexachlorobenzene	87		75		40-140	15		50
Bis(2-chloroethyl)ether	76		64		40-140	17		50
2-Chloronaphthalene	79		68		40-140	15		50
1,2-Dichlorobenzene	76		64		40-140	17		50
1,3-Dichlorobenzene	77		66		40-140	15		50
1,4-Dichlorobenzene	77		66		28-104	15		50
3,3'-Dichlorobenzidine	61		50		40-140	20		50
2,4-Dinitrotoluene	93		80		40-132	15		50
2,6-Dinitrotoluene	79		67		40-140	16		50
Fluoranthene	86		75		40-140	14		50
4-Chlorophenyl phenyl ether	85		74		40-140	14		50
4-Bromophenyl phenyl ether	84		74		40-140	13		50
Bis(2-chloroisopropyl)ether	71		60		40-140	17		50
Bis(2-chloroethoxy)methane	73		62		40-117	16		50
Hexachlorobutadiene	73		62		40-140	16		50
Hexachlorocyclopentadiene	84		71		40-140	17		50
Hexachloroethane	71		61		40-140	15		50
Isophorone	72		61		40-140	17		50
Naphthalene	82		70		40-140	16		50
Nitrobenzene	73		61		40-140	18		50
NDPA/DPA	88		78		36-157	12		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-11 Batch: WG1769789-2 WG1769789-3								
n-Nitrosodi-n-propylamine	74		64		32-121	14		50
Bis(2-ethylhexyl)phthalate	89		77		40-140	14		50
Butyl benzyl phthalate	93		78		40-140	18		50
Di-n-butylphthalate	93		79		40-140	16		50
Di-n-octylphthalate	91		78		40-140	15		50
Diethyl phthalate	88		77		40-140	13		50
Dimethyl phthalate	80		68		40-140	16		50
Benzo(a)anthracene	82		70		40-140	16		50
Benzo(a)pyrene	88		77		40-140	13		50
Benzo(b)fluoranthene	81		72		40-140	12		50
Benzo(k)fluoranthene	91		77		40-140	17		50
Chrysene	84		75		40-140	11		50
Acenaphthylene	88		75		40-140	16		50
Anthracene	89		76		40-140	16		50
Benzo(ghi)perylene	86		76		40-140	12		50
Fluorene	88		77		40-140	13		50
Phenanthrene	88		76		40-140	15		50
Dibenzo(a,h)anthracene	86		76		40-140	12		50
Indeno(1,2,3-cd)pyrene	86		76		40-140	12		50
Pyrene	88		76		35-142	15		50
Biphenyl	84		72		37-127	15		50
4-Chloroaniline	42		38	Q	40-140	10		50
2-Nitroaniline	80		69		47-134	15		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-11 Batch: WG1769789-2 WG1769789-3								
3-Nitroaniline	65		58		26-129	11		50
4-Nitroaniline	93		82		41-125	13		50
Dibenzofuran	88		76		40-140	15		50
2-Methylnaphthalene	83		71		40-140	16		50
1,2,4,5-Tetrachlorobenzene	80		68		40-117	16		50
Acetophenone	78		67		14-144	15		50
2,4,6-Trichlorophenol	83		72		30-130	14		50
p-Chloro-m-cresol	87		74		26-103	16		50
2-Chlorophenol	84		72		25-102	15		50
2,4-Dichlorophenol	83		69		30-130	18		50
2,4-Dimethylphenol	80		68		30-130	16		50
2-Nitrophenol	76		64		30-130	17		50
4-Nitrophenol	90		78		11-114	14		50
2,4-Dinitrophenol	58		53		4-130	9		50
4,6-Dinitro-o-cresol	88		76		10-130	15		50
Pentachlorophenol	85		73		17-109	15		50
Phenol	92	Q	78		26-90	16		50
2-Methylphenol	82		70		30-130	16		50
3-Methylphenol/4-Methylphenol	82		69		30-130	17		50
2,4,5-Trichlorophenol	84		72		30-130	15		50
Benzoic Acid	18		22		10-110	20		50
Benzyl Alcohol	80		68		40-140	16		50
Carbazole	90		80		54-128	12		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-11 Batch: WG1769789-2 WG1769789-3								
1,4-Dioxane	60		51		40-140	16		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	92		77		25-120
Phenol-d6	85		72		10-120
Nitrobenzene-d5	72		61		23-120
2-Fluorobiphenyl	76		65		30-120
2,4,6-Tribromophenol	91		78		10-136
4-Terphenyl-d14	84		70		18-120

Lab Control Sample Analysis Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270E-SIM - Mansfield Lab Associated sample(s): 12-13 Batch: WG1770315-2 WG1770315-3								
1,4-Dioxane	117		118		40-140	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	50		51		15-110



Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1771130-2 WG1771130-3								
Acenaphthene	63		63		37-111	0		30
1,2,4-Trichlorobenzene	61		60		39-98	2		30
Hexachlorobenzene	61		60		40-140	2		30
Bis(2-chloroethyl)ether	74		75		40-140	1		30
2-Chloronaphthalene	59		60		40-140	2		30
1,2-Dichlorobenzene	61		63		40-140	3		30
1,3-Dichlorobenzene	60		59		40-140	2		30
1,4-Dichlorobenzene	62		62		36-97	0		30
3,3'-Dichlorobenzidine	55		55		40-140	0		30
2,4-Dinitrotoluene	74		77		48-143	4		30
2,6-Dinitrotoluene	65		70		40-140	7		30
Fluoranthene	60		61		40-140	2		30
4-Chlorophenyl phenyl ether	62		63		40-140	2		30
4-Bromophenyl phenyl ether	65		63		40-140	3		30
Bis(2-chloroisopropyl)ether	86		87		40-140	1		30
Bis(2-chloroethoxy)methane	78		76		40-140	3		30
Hexachlorobutadiene	54		51		40-140	6		30
Hexachlorocyclopentadiene	52		54		40-140	4		30
Hexachloroethane	68		71		40-140	4		30
Isophorone	70		72		40-140	3		30
Naphthalene	62		61		40-140	2		30
Nitrobenzene	80		77		40-140	4		30
NDPA/DPA	64		65		40-140	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1771130-2 WG1771130-3								
n-Nitrosodi-n-propylamine	75		76		29-132	1		30
Bis(2-ethylhexyl)phthalate	81		79		40-140	3		30
Butyl benzyl phthalate	69		71		40-140	3		30
Di-n-butylphthalate	69		71		40-140	3		30
Di-n-octylphthalate	79		78		40-140	1		30
Diethyl phthalate	71		72		40-140	1		30
Dimethyl phthalate	63		62		40-140	2		30
Benzo(a)anthracene	66		65		40-140	2		30
Benzo(a)pyrene	69		68		40-140	1		30
Benzo(b)fluoranthene	64		62		40-140	3		30
Benzo(k)fluoranthene	70		67		40-140	4		30
Chrysene	67		65		40-140	3		30
Acenaphthylene	65		66		45-123	2		30
Anthracene	66		64		40-140	3		30
Benzo(ghi)perylene	72		72		40-140	0		30
Fluorene	67		67		40-140	0		30
Phenanthrene	67		66		40-140	2		30
Dibenzo(a,h)anthracene	72		71		40-140	1		30
Indeno(1,2,3-cd)pyrene	72		71		40-140	1		30
Pyrene	61		62		26-127	2		30
Biphenyl	56		56		40-140	0		30
4-Chloroaniline	67		74		40-140	10		30
2-Nitroaniline	67		67		52-143	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1771130-2 WG1771130-3								
3-Nitroaniline	67		73		25-145	9		30
4-Nitroaniline	70		68		51-143	3		30
Dibenzofuran	67		68		40-140	1		30
2-Methylnaphthalene	60		60		40-140	0		30
1,2,4,5-Tetrachlorobenzene	50		53		2-134	6		30
Acetophenone	60		59		39-129	2		30
2,4,6-Trichlorophenol	58		61		30-130	5		30
p-Chloro-m-cresol	68		66		23-97	3		30
2-Chlorophenol	62		65		27-123	5		30
2,4-Dichlorophenol	62		62		30-130	0		30
2,4-Dimethylphenol	60		60		30-130	0		30
2-Nitrophenol	68		72		30-130	6		30
4-Nitrophenol	97	Q	92	Q	10-80	5		30
2,4-Dinitrophenol	49		44		20-130	11		30
4,6-Dinitro-o-cresol	70		76		20-164	8		30
Pentachlorophenol	52		58		9-103	11		30
Phenol	53		52		12-110	2		30
2-Methylphenol	76		79		30-130	4		30
3-Methylphenol/4-Methylphenol	73		75		30-130	3		30
2,4,5-Trichlorophenol	58		60		30-130	3		30
Benzoic Acid	47		50		10-164	6		30
Benzyl Alcohol	64		66		26-116	3		30
Carbazole	66		66		55-144	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Project Number: 100688801

Lab Number: L2320936

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1771130-2 WG1771130-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	62		61		21-120
Phenol-d6	54		56		10-120
Nitrobenzene-d5	81		82		23-120
2-Fluorobiphenyl	59		57		15-120
2,4,6-Tribromophenol	68		72		10-120
4-Terphenyl-d14	56		57		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 12 Batch: WG1771132-2 WG1771132-3								
Acenaphthene	54		64		40-140	17		40
2-Chloronaphthalene	53		62		40-140	16		40
Fluoranthene	54		63		40-140	15		40
Hexachlorobutadiene	48		57		40-140	17		40
Naphthalene	50		59		40-140	17		40
Benzo(a)anthracene	56		66		40-140	16		40
Benzo(a)pyrene	58		70		40-140	19		40
Benzo(b)fluoranthene	53		68		40-140	25		40
Benzo(k)fluoranthene	59		70		40-140	17		40
Chrysene	54		63		40-140	15		40
Acenaphthylene	54		65		40-140	18		40
Anthracene	56		65		40-140	15		40
Benzo(ghi)perylene	55		62		40-140	12		40
Fluorene	55		66		40-140	18		40
Phenanthrene	52		61		40-140	16		40
Dibenzo(a,h)anthracene	57		64		40-140	12		40
Indeno(1,2,3-cd)pyrene	52		58		40-140	11		40
Pyrene	55		64		40-140	15		40
2-Methylnaphthalene	52		62		40-140	18		40
Pentachlorophenol	55		64		40-140	15		40
Hexachlorobenzene	58		69		40-140	17		40
Hexachloroethane	50		60		40-140	18		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Project Number: 100688801

Lab Number: L2320936

Report Date: 05/11/23

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 12 Batch: WG1771132-2 WG1771132-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	48		57		21-120
Phenol-d6	43		51		10-120
Nitrobenzene-d5	60		72		23-120
2-Fluorobiphenyl	50		59		15-120
2,4,6-Tribromophenol	69		85		10-120
4-Terphenyl-d14	52		60		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	Low Level	Qual	Low Level	Qual	%Recovery Limits	RPD	Qual	RPD Limits
	LCS %Recovery		LCSD %Recovery					
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 12 Batch: WG1772881-2 LOW LEVEL								
Perfluorobutanoic Acid (PFBA)	122		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	124		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	124		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	128		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	125		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	114		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	128		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	118		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	125		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	135		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	108		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	128		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	121		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	115		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	127		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	117		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	138		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	120		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	116		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	110		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	122		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	120		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	Low Level	Qual	Low Level	Qual	%Recovery Limits	RPD	Qual	RPD Limits
	LCS %Recovery		LCS %Recovery					
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 12 Batch: WG1772881-2 LOW LEVEL								
Perfluorotridecanoic Acid (PFTTrDA)	122		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	138		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	119		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	122		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	113		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	120		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	118		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	98		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	112		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	122		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	125		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	121		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	111		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	114		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	201	Q	-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	112		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	108		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	73		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	Low Level LCS		Low Level LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 12 Batch: WG1772881-2 LOW LEVEL								

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	92				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	89				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	88				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	94				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	89				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	91				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	96				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	91				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	90				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	90				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	89				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	82				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	89				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	81				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	82				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	87				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	67				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	77				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	81				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	79				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	63				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	66				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	75				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	87				20-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 12 Batch: WG1772881-3								
Perfluorobutanoic Acid (PFBA)	4	Q	-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	4	Q	-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	5	Q	-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	4	Q	-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	4	Q	-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	3	Q	-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	4	Q	-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	4	Q	-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	4	Q	-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	4	Q	-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	3	Q	-		40-150	-		30
Perfluorononanoic Acid (PFNA)	4	Q	-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	5	Q	-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	4	Q	-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	3	Q	-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	3	Q	-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	4	Q	-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	4	Q	-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	3	Q	-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	3	Q	-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2	Q	-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	4	Q	-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 12 Batch: WG1772881-3								
Perfluorotridecanoic Acid (PFTTrDA)	3	Q	-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	4	Q	-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	4	Q	-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	4	Q	-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	3	Q	-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	3	Q	-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	3	Q	-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	3	Q	-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	3	Q	-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	4	Q	-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	3	Q	-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	4	Q	-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	3	Q	-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	3	Q	-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	5	Q	-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	3	Q	-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	3	Q	-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	4	Q	-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits			Qual	Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 12 Batch: WG1772881-3									

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	89				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	89				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	78				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	91				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	88				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	93				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	88				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	87				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	90				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	78				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	84				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	97				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	81				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	80				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	91				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	81				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	70				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	82				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	82				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	79				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	60				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	69				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	67				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	84				20-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	Low Level	Qual	Low Level	Qual	%Recovery	RPD	Qual	RPD
	LCS		LCS		Limits			Limits
	%Recovery		%Recovery					
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02,04-06,08-11 Batch: WG1773185-2 LOW LEVEL								
Perfluorobutanoic Acid (PFBA)	86		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	105		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	113		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	100		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	95		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	104		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	105		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	107		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	105		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	108		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	81		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	112		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	100		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	110		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	102		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	114		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	110		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	115		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	104		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	98		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	118		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	88		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	Low Level	Qual	Low Level	Qual	%Recovery	RPD	Qual	RPD
	LCS		LCS		Limits			Limits
	%Recovery		%Recovery					
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02,04-06,08-11 Batch: WG1773185-2 LOW LEVEL								
Perfluorotridecanoic Acid (PFTTrDA)	90		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	92		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	106		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	95		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	64		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	116		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	108		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	100		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	112		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	98		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	103		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	96		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	102		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	81		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	160	Q	-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	86		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	88		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	110		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	Low Level LCS		Low Level LCSD		%Recovery Limits		RPD		RPD Limits
	%Recovery	Qual	%Recovery	Qual			RPD	Qual	

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02,04-06,08-11 Batch: WG1773185-2 LOW LEVEL

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	86				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	83				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	81				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	84				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	91				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	124				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	85				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	87				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	85				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	84				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	90				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	82				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	99				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	99				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	85				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	85				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	98				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	75				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	50				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	97				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	64				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	68				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	124				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	104				20-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02,04-06,08-11 Batch: WG1773185-3								
Perfluorobutanoic Acid (PFBA)	98		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	95		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	103		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	101		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	96		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	105		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	104		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	97		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	93		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	89		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	94		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	93		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	88		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	102		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	88		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	107		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	97		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	81		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	97		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	89		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	109		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	91		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02,04-06,08-11 Batch: WG1773185-3								
Perfluorotridecanoic Acid (PFTrDA)	77		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	93		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	99		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	90		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	59		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	70		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	65		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	102		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	100		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	97		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	97		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	88		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	92		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	75		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	159	Q	-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	85		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	77		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	69		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02,04-06,08-11 Batch: WG1773185-3									

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	90				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	84				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	91				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	90				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	89				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	112				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	88				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	98				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	91				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	94				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	89				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	105				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	76				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	104				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	109				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	86				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	101				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	87				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	48				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	92				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	72				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	71				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	118				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	112				20-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	Low Level	Qual	Low Level	Qual	%Recovery Limits	RPD	Qual	RPD Limits
	LCS %Recovery		LCSD %Recovery					
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 13 Batch: WG1773503-2 LOW LEVEL								
Perfluorobutanoic Acid (PFBA)	106		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	115		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	99		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	114		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	112		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	125		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	118		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	118		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	108		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	119		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	110		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	98		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	100		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	118		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	106		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	109		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	148		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	100		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	91		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	98		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	78		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	98		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	Low Level	Qual	Low Level	Qual	%Recovery Limits	RPD	Qual	RPD Limits
	LCS %Recovery		LCS %Recovery					
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 13 Batch: WG1773503-2 LOW LEVEL								
Perfluorotridecanoic Acid (PFTrDA)	98		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	102		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	108		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	113		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	88		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	108		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUS)	91		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	98		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	80		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	110		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	103		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	118		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	110		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	97		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	125		-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	99		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	83		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	45		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	Low Level LCS		Low Level LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 13 Batch: WG1773503-2 LOW LEVEL								

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	82				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	78				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	88				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	84				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	84				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	83				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	76				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	80				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	79				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	86				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	84				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	80				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	70				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	59				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	67				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	61				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	66				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	73				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	62				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	78				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	48				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	54				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	64				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	68				20-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 13 Batch: WG1773503-3								
Perfluorobutanoic Acid (PFBA)	96		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	95		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	95		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	99		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	97		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	103		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	93		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	95		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	97		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	99		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	104		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	84		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	86		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	106		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	104		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	95		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	113		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	109		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	92		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	96		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	104		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	125		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 13 Batch: WG1773503-3								
Perfluorotridecanoic Acid (PFTTrDA)	125		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTTeDA)	116		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	97		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	101		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	83		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	93		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUS)	82		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	110		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	110		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	96		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	100		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	100		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	97		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	91		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	108		-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	94		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	88		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	61		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 13 Batch: WG1773503-3									

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	86				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	76				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	85				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	82				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	77				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	84				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	80				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	85				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	80				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	86				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	78				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	84				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	74				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	59				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	67				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	63				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	62				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	53				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	58				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	77				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	49				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	53				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	72				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	68				20-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	Low Level	Qual	Low Level	Qual	%Recovery Limits	RPD	Qual	RPD Limits
	LCS %Recovery		LCSD %Recovery					
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 07 Batch: WG1777187-2 LOW LEVEL								
Perfluorobutanoic Acid (PFBA)	119		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	101		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	104		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	119		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	110		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	114		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	92		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	101		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	100		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	123		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	92		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	112		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	121		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	98		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	113		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	94		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	102		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	118		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	96		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	118		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	130		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	95		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	Low Level	Qual	Low Level	Qual	%Recovery Limits	RPD	Qual	RPD Limits
	LCS %Recovery		LCS %Recovery					
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 07 Batch: WG1777187-2 LOW LEVEL								
Perfluorotridecanoic Acid (PFTTrDA)	115		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTTeDA)	125		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	122		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	104		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	85		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	118		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUS)	107		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	108		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	125		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	116		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	116		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	108		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	124		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	104		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	121		-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	114		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	103		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	95		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	Low Level LCS		Low Level LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 07 Batch: WG1777187-2 LOW LEVEL								

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	69				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	74				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	72				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	66				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	78				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	74				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	70				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	66				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	57				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	72				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	71				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	66				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	58				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	60				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	63				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	61				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	50				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	55				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	39				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	71				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	50				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	50				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	48				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	58				20-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 07 Batch: WG1777187-3								
Perfluorobutanoic Acid (PFBA)	69		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	59		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	71		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	66		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	68		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	70		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	58		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	57		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	54		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	78		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	56		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	72		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	75		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	54		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	63		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	55		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	66		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	68		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	57		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	68		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	58		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	56		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 07 Batch: WG1777187-3								
Perfluorotridecanoic Acid (PFTrDA)	64		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	84		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	75		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	61		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	43		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	76		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUS)	64		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	54		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	65		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	63		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	68		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	68		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	76		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	77		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	83		-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	64		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	68		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	63		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits			Qual	Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 07 Batch: WG1777187-3									

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	53				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	52				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	52				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	48				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	48				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	50				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	52				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	50				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	43				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	48				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	50				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	49				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	42				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	44				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	48				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	42				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	39				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	39				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	22				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	51				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	38				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	39				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	38				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	42				20-150

Matrix Spike Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-11 QC Batch ID: WG1769789-4 WG1769789-5 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5												
Acenaphthene	310	1580	1100	50		1200	57		31-137	9		50
1,2,4-Trichlorobenzene	ND	1580	980	62		910	58		38-107	7		50
Hexachlorobenzene	ND	1580	900	57		840	53		40-140	7		50
Bis(2-chloroethyl)ether	ND	1580	860	54		780	50		40-140	10		50
2-Chloronaphthalene	ND	1580	940	59		900	57		40-140	4		50
1,2-Dichlorobenzene	ND	1580	920	58		840	53		40-140	9		50
1,3-Dichlorobenzene	ND	1580	920	58		820	52		40-140	11		50
1,4-Dichlorobenzene	ND	1580	920	58		820	52		28-104	11		50
3,3'-Dichlorobenzidine	ND	1580	540	34	Q	620	39	Q	40-140	14		50
2,4-Dinitrotoluene	ND	1580	550	35	Q	500	32	Q	40-132	10		50
2,6-Dinitrotoluene	ND	1580	590	37	Q	530	34	Q	40-140	11		50
Fluoranthene	1200	1580	1400	13	Q	1500	19	Q	40-140	7		50
4-Chlorophenyl phenyl ether	ND	1580	900	57		870	55		40-140	3		50
4-Bromophenyl phenyl ether	ND	1580	920	58		860	55		40-140	7		50
Bis(2-chloroisopropyl)ether	ND	1580	790	50		720	46		40-140	9		50
Bis(2-chloroethoxy)methane	ND	1580	910	58		860	55		40-117	6		50
Hexachlorobutadiene	ND	1580	920	58		860	55		40-140	7		50
Hexachlorocyclopentadiene	ND	1580	ND	0	Q	ND	0	Q	40-140	NC		50
Hexachloroethane	ND	1580	740	47		630	40		40-140	16		50
Isophorone	ND	1580	880	56		830	53		40-140	6		50
Naphthalene	100J	1580	1000	63		950	60		40-140	5		50
Nitrobenzene	ND	1580	820	52		780	50		40-140	5		50
NDPA/DPA	ND	1580	920	58		890	57		36-157	3		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-11 QC Batch ID: WG1769789-4 WG1769789-5 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5												
n-Nitrosodi-n-propylamine	ND	1580	890	56		810	51		32-121	9		50
Bis(2-ethylhexyl)phthalate	ND	1580	1200	76		1100	70		40-140	9		50
Butyl benzyl phthalate	ND	1580	950	60		840	53		40-140	12		50
Di-n-butylphthalate	ND	1580	950	60		890	57		40-140	7		50
Di-n-octylphthalate	ND	1580	1100	70		1000	64		40-140	10		50
Diethyl phthalate	ND	1580	880	56		840	53		40-140	5		50
Dimethyl phthalate	ND	1580	910	58		850	54		40-140	7		50
Benzo(a)anthracene	580	1580	1200	39	Q	1200	39	Q	40-140	0		50
Benzo(a)pyrene	510	1580	1200	44		1100	37	Q	40-140	9		50
Benzo(b)fluoranthene	520	1580	1100	37	Q	1100	37	Q	40-140	0		50
Benzo(k)fluoranthene	140	1580	890	47		860	46		40-140	3		50
Chrysene	600	1580	1200	38	Q	1200	38	Q	40-140	0		50
Acenaphthylene	58J	1580	1000	63		980	62		40-140	2		50
Anthracene	390	1580	1100	45		1100	45		40-140	0		50
Benzo(ghi)perylene	280	1580	930	41		890	39	Q	40-140	4		50
Fluorene	330	1580	1100	49		1100	49		40-140	0		50
Phenanthrene	1400	1580	1500	6	Q	1700	19	Q	40-140	13		50
Dibenzo(a,h)anthracene	47J	1580	840	53		820	52		40-140	2		50
Indeno(1,2,3-cd)pyrene	270	1580	960	44		940	43		40-140	2		50
Pyrene	1400	1580	1500	6	Q	1600	13	Q	35-142	6		50
Biphenyl	ND	1580	940	59		890	57		37-127	5		50
4-Chloroaniline	ND	1580	860	54		690	44		40-140	22		50
2-Nitroaniline	ND	1580	1000	63		1000	64		47-134	0		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-11 QC Batch ID: WG1769789-4 WG1769789-5 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5												
3-Nitroaniline	ND	1580	910	58		900	57		26-129	1		50
4-Nitroaniline	ND	1580	940	59		940	60		41-125	0		50
Dibenzofuran	63J	1580	960	61		920	58		40-140	4		50
2-Methylnaphthalene	140J	1580	1000	63		1000	64		40-140	0		50
1,2,4,5-Tetrachlorobenzene	ND	1580	960	61		900	57		40-117	6		50
Acetophenone	ND	1580	940	59		860	55		14-144	9		50
2,4,6-Trichlorophenol	ND	1580	1000	63		990	63		30-130	1		50
p-Chloro-m-cresol	ND	1580	970	61		920	58		26-103	5		50
2-Chlorophenol	ND	1580	970	61		920	58		25-102	5		50
2,4-Dichlorophenol	ND	1580	1000	63		960	61		30-130	4		50
2,4-Dimethylphenol	ND	1580	1000	63		990	63		30-130	1		50
2-Nitrophenol	ND	1580	350J	22	Q	300J	19	Q	30-130	15		50
4-Nitrophenol	ND	1580	730	46		680	43		11-114	7		50
2,4-Dinitrophenol	ND	1580	ND	0	Q	ND	0	Q	4-130	NC		50
4,6-Dinitro-o-cresol	ND	1580	ND	0	Q	ND	0	Q	10-130	NC		50
Pentachlorophenol	ND	1580	950	60		880	56		17-109	8		50
Phenol	ND	1580	930	59		880	56		26-90	6		50
2-Methylphenol	ND	1580	980	62		910	58		30-130	7		50
3-Methylphenol/4-Methylphenol	ND	1580	1100	70		1000	64		30-130	10		50
2,4,5-Trichlorophenol	ND	1580	1000	63		960	61		30-130	4		50
Benzoic Acid	ND	1580	ND	0	Q	ND	0	Q	10-110	NC		50
Benzyl Alcohol	ND	1580	890	56		840	53		40-140	6		50
Carbazole	32J	1580	890	56		870	55		54-128	2		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-11 QC Batch ID: WG1769789-4 WG1769789-5 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5												
1,4-Dioxane	ND	1580	650	41		560	36	Q	40-140	15		50

<i>Surrogate</i>	<i>MS</i>		<i>MSD</i>		<i>Acceptance Criteria</i>
	<i>% Recovery</i>	<i>Qualifier</i>	<i>% Recovery</i>	<i>Qualifier</i>	
2,4,6-Tribromophenol	61		57		10-136
2-Fluorobiphenyl	56		54		30-120
2-Fluorophenol	63		58		25-120
4-Terphenyl-d14	44		41		18-120
Nitrobenzene-d5	52		50		23-120
Phenol-d6	60		57		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02,04-06,08-11 QC Batch ID: WG1773185-6 WG1773185-7 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5												
Perfluorobutanoic Acid (PFBA)	ND	7.91	7.77	98		7.94	99		40-150	2		30
Perfluoropentanoic Acid (PFPeA)	ND	3.96	3.76	95		3.92	98		40-150	4		30
Perfluorobutanesulfonic Acid (PFBS)	ND	1.75	1.69	96		1.82	103		40-150	7		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	7.42	7.59	102		7.86	105		40-150	3		30
Perfluorohexanoic Acid (PFHxA)	ND	1.98	1.85	94		2.00	100		40-150	8		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	1.86	2.00	107		1.91	102		40-150	5		30
Perfluoroheptanoic Acid (PFHpA)	ND	1.98	2.02	102		2.04	102		40-150	1		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	1.81	1.76	97		1.80	99		40-150	2		30
Perfluorooctanoic Acid (PFOA)	ND	1.98	1.92	97		1.99	100		40-150	4		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	7.52	7.76	103		7.74	102		40-150	0		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.88	1.90	101		1.81	95		40-150	5		30
Perfluorononanoic Acid (PFNA)	ND	1.98	1.92	97		1.82	91		40-150	5		30
Perfluorooctanesulfonic Acid (PFOS)	ND	1.84	1.70	93		1.73	93		40-150	2		30
Perfluorodecanoic Acid (PFDA)	ND	1.98	1.76	89		2.13	107		40-150	19		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	7.6	7.08	93		7.98	104		40-150	12		30
Perfluorononanesulfonic Acid (PFNS)	ND	1.9	2.06	108		2.14	111		40-150	4		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	1.98	1.75	89		2.17	109		40-150	21		30
Perfluoroundecanoic Acid (PFUnA)	ND	1.98	2.17	110		1.83	92		40-150	17		30
Perfluorodecanesulfonic Acid (PFDS)	ND	1.91	1.99	104		2.01	104		40-150	1		30
Perfluorooctanesulfonamide (PFOSA)	ND	1.98	1.83	93		1.97	99		40-150	7		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.98	2.02	102		1.85	93		40-150	9		30
Perfluorododecanoic Acid (PFDoA)	ND	1.98	1.68	85		2.11	106		40-150	23		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02,04-06,08-11 QC Batch ID: WG1773185-6 WG1773185-7 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5												
Perfluorotridecanoic Acid (PFTrDA)	ND	1.98	1.60	81		1.80	90		40-150	12		30
Perfluorotetradecanoic Acid (PFTeDA)	ND	1.98	1.99	101		1.90	95		40-150	5		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	7.91	8.36	106		8.34	104		40-150	0		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	7.48	7.85	105		8.00	106		40-150	2		30
Perfluorododecanesulfonic Acid (PFDoS)	ND	1.92	1.63	85		1.75	90		40-150	7		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	7.4	6.76	91		7.22	97		40-150	7		30
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	7.48	7.04	94		7.34	97		40-150	4		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.98	1.92	97		2.06	103		40-150	7		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.98	1.88	95		2.21	111		40-150	16		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	19.8	18.1	92		21.1	106		40-150	15		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	19.8	20.4	103		21.3	107		40-150	4		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	3.96	3.76	95		3.81	95		40-150	1		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	3.96	3.80	96		3.87	97		40-150	2		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	3.52	3.02	86		3.06	86		40-150	1		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	3.96	4.11	104		4.20	105		40-150	2		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND	9.89	8.22	83		7.98	80		40-150	3		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND	49.5	38.4	78		40.9	82		40-150	6		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND	49.5	33.7	68		38.1	76		40-150	12		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02,04-06,08-11 QC Batch ID: WG1773185-6 WG1773185-7 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	87		94		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	90		91		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	88		87		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	74		70		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	105		111		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	86		90		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	69		70		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	107		108		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	94		92		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	89		89		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	82		80		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	95		92		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	94		94		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	93		102		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	111		93		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	98		93		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	108		107		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	106		91		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	63		72		20-150
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	91		89		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	93		89		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	91		90		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	87		82		20-150

Matrix Spike Analysis**Batch Quality Control****Project Name:** 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02,04-06,08-11 QC Batch ID: WG1773185-6 WG1773185-7 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	87		88		20-150

PCBS

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-01
 Client ID: LSB15A_16.5-18.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/23/23 16:39
 Analyst: MEO
 Percent Solids: 75%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 19:12
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/23/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/23/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	65.1	5.78	1	A
Aroclor 1221	ND		ug/kg	65.1	6.53	1	A
Aroclor 1232	ND		ug/kg	65.1	13.8	1	A
Aroclor 1242	ND		ug/kg	65.1	8.78	1	A
Aroclor 1248	ND		ug/kg	65.1	9.77	1	A
Aroclor 1254	ND		ug/kg	65.1	7.13	1	A
Aroclor 1260	ND		ug/kg	65.1	12.0	1	A
Aroclor 1262	ND		ug/kg	65.1	8.27	1	A
Aroclor 1268	ND		ug/kg	65.1	6.75	1	A
PCBs, Total	ND		ug/kg	65.1	5.78	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-02
 Client ID: LSB17A_14-16
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:25
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/23/23 16:46
 Analyst: MEO
 Percent Solids: 75%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 19:12
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/23/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/23/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	64.6	5.74	1	A
Aroclor 1221	ND		ug/kg	64.6	6.48	1	A
Aroclor 1232	ND		ug/kg	64.6	13.7	1	A
Aroclor 1242	ND		ug/kg	64.6	8.72	1	A
Aroclor 1248	ND		ug/kg	64.6	9.70	1	A
Aroclor 1254	ND		ug/kg	64.6	7.07	1	A
Aroclor 1260	ND		ug/kg	64.6	11.9	1	A
Aroclor 1262	ND		ug/kg	64.6	8.21	1	A
Aroclor 1268	ND		ug/kg	64.6	6.70	1	A
PCBs, Total	ND		ug/kg	64.6	5.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	95		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-04
 Client ID: LSB20A_15-17
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/23/23 16:52
 Analyst: MEO
 Percent Solids: 73%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 19:12
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/23/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/23/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	64.1	5.69	1	A
Aroclor 1221	ND		ug/kg	64.1	6.42	1	A
Aroclor 1232	ND		ug/kg	64.1	13.6	1	A
Aroclor 1242	ND		ug/kg	64.1	8.64	1	A
Aroclor 1248	ND		ug/kg	64.1	9.61	1	A
Aroclor 1254	ND		ug/kg	64.1	7.01	1	A
Aroclor 1260	ND		ug/kg	64.1	11.8	1	A
Aroclor 1262	ND		ug/kg	64.1	8.14	1	A
Aroclor 1268	ND		ug/kg	64.1	6.64	1	A
PCBs, Total	ND		ug/kg	64.1	5.69	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-05
Client ID: DUP01_04192023
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:05
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/23/23 16:59
Analyst: MEO
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 04/22/23 19:12
Cleanup Method: EPA 3665A
Cleanup Date: 04/23/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/23/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	66.1	5.87	1	A
Aroclor 1221	ND		ug/kg	66.1	6.62	1	A
Aroclor 1232	ND		ug/kg	66.1	14.0	1	A
Aroclor 1242	ND		ug/kg	66.1	8.91	1	A
Aroclor 1248	ND		ug/kg	66.1	9.92	1	A
Aroclor 1254	ND		ug/kg	66.1	7.23	1	A
Aroclor 1260	ND		ug/kg	66.1	12.2	1	A
Aroclor 1262	ND		ug/kg	66.1	8.40	1	A
Aroclor 1268	ND		ug/kg	66.1	6.85	1	A
PCBs, Total	ND		ug/kg	66.1	5.87	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-06
 Client ID: LSB20A_12-14
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:35
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/23/23 17:06
 Analyst: MEO
 Percent Solids: 78%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 19:12
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/23/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/23/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	61.8	5.48	1	A
Aroclor 1221	ND		ug/kg	61.8	6.19	1	A
Aroclor 1232	ND		ug/kg	61.8	13.1	1	A
Aroclor 1242	ND		ug/kg	61.8	8.33	1	A
Aroclor 1248	ND		ug/kg	61.8	9.27	1	A
Aroclor 1254	42.4	J	ug/kg	61.8	6.76	1	B
Aroclor 1260	24.5	J	ug/kg	61.8	11.4	1	B
Aroclor 1262	ND		ug/kg	61.8	7.84	1	A
Aroclor 1268	24.2	J	ug/kg	61.8	6.40	1	B
PCBs, Total	91.1	J	ug/kg	61.8	5.48	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	95		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-07
 Client ID: LSB18A_16.5-18.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 11:10
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/23/23 17:13
 Analyst: MEO
 Percent Solids: 73%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 19:12
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/23/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/23/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	64.4	5.72	1	A
Aroclor 1221	ND		ug/kg	64.4	6.46	1	A
Aroclor 1232	ND		ug/kg	64.4	13.7	1	A
Aroclor 1242	ND		ug/kg	64.4	8.69	1	A
Aroclor 1248	ND		ug/kg	64.4	9.67	1	A
Aroclor 1254	ND		ug/kg	64.4	7.05	1	A
Aroclor 1260	ND		ug/kg	64.4	11.9	1	B
Aroclor 1262	ND		ug/kg	64.4	8.18	1	A
Aroclor 1268	9.28	J	ug/kg	64.4	6.68	1	A
PCBs, Total	9.28	J	ug/kg	64.4	5.72	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-08
Client ID: LSB19A_18-20
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:00
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/23/23 17:20
Analyst: MEO
Percent Solids: 49%

Extraction Method: EPA 3546
Extraction Date: 04/22/23 19:12
Cleanup Method: EPA 3665A
Cleanup Date: 04/23/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/23/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	97.8	8.68	1	A
Aroclor 1221	ND		ug/kg	97.8	9.80	1	A
Aroclor 1232	ND		ug/kg	97.8	20.7	1	A
Aroclor 1242	ND		ug/kg	97.8	13.2	1	A
Aroclor 1248	ND		ug/kg	97.8	14.7	1	A
Aroclor 1254	27.0	J	ug/kg	97.8	10.7	1	A
Aroclor 1260	22.1	J	ug/kg	97.8	18.1	1	B
Aroclor 1262	ND		ug/kg	97.8	12.4	1	A
Aroclor 1268	54.9	J	ug/kg	97.8	10.1	1	A
PCBs, Total	104	J	ug/kg	97.8	8.68	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	102		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	105		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-09
 Client ID: LSB24A_16-18
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:30
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/23/23 17:27
 Analyst: MEO
 Percent Solids: 52%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 19:20
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/23/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/23/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	91.6	8.13	1	A
Aroclor 1221	ND		ug/kg	91.6	9.18	1	A
Aroclor 1232	ND		ug/kg	91.6	19.4	1	A
Aroclor 1242	ND		ug/kg	91.6	12.3	1	A
Aroclor 1248	ND		ug/kg	91.6	13.7	1	A
Aroclor 1254	ND		ug/kg	91.6	10.0	1	A
Aroclor 1260	ND		ug/kg	91.6	16.9	1	A
Aroclor 1262	ND		ug/kg	91.6	11.6	1	A
Aroclor 1268	ND		ug/kg	91.6	9.49	1	A
PCBs, Total	ND		ug/kg	91.6	8.13	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-10
 Client ID: LSB27A_17-19
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 13:55
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/24/23 11:22
 Analyst: ER
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 04/23/23 06:24
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/23/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	55.1	4.90	1	A
Aroclor 1221	ND		ug/kg	55.1	5.53	1	A
Aroclor 1232	ND		ug/kg	55.1	11.7	1	A
Aroclor 1242	ND		ug/kg	55.1	7.43	1	A
Aroclor 1248	ND		ug/kg	55.1	8.27	1	A
Aroclor 1254	ND		ug/kg	55.1	6.03	1	A
Aroclor 1260	ND		ug/kg	55.1	10.2	1	A
Aroclor 1262	ND		ug/kg	55.1	7.00	1	A
Aroclor 1268	ND		ug/kg	55.1	5.71	1	A
PCBs, Total	ND		ug/kg	55.1	4.90	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-11
 Client ID: LSB16A_19.5-21.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:30
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/23/23 16:18
 Analyst: MEO
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 19:20
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/23/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/23/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	58.5	5.20	1	A
Aroclor 1221	ND		ug/kg	58.5	5.86	1	A
Aroclor 1232	ND		ug/kg	58.5	12.4	1	A
Aroclor 1242	ND		ug/kg	58.5	7.89	1	A
Aroclor 1248	110		ug/kg	58.5	8.78	1	A
Aroclor 1254	53.9	J	ug/kg	58.5	6.40	1	A
Aroclor 1260	30.6	J	ug/kg	58.5	10.8	1	A
Aroclor 1262	ND		ug/kg	58.5	7.43	1	A
Aroclor 1268	16.5	J	ug/kg	58.5	6.06	1	B
PCBs, Total	211	J	ug/kg	58.5	5.20	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	96		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-12
Client ID: FB-01_04192023
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:00
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/26/23 17:05
Analyst: ER

Extraction Method: EPA 3510C
Extraction Date: 04/26/23 01:54
Cleanup Method: EPA 3665A
Cleanup Date: 04/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/26/23

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	80		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 04/23/23 12:45
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 04/22/23 01:57
Cleanup Method: EPA 3665A
Cleanup Date: 04/23/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/23/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02,04-09,11 Batch: WG1769780-1						
Aroclor 1016	ND		ug/kg	46.6	4.13	A
Aroclor 1221	ND		ug/kg	46.6	4.66	A
Aroclor 1232	ND		ug/kg	46.6	9.87	A
Aroclor 1242	ND		ug/kg	46.6	6.28	A
Aroclor 1248	ND		ug/kg	46.6	6.98	A
Aroclor 1254	ND		ug/kg	46.6	5.09	A
Aroclor 1260	ND		ug/kg	46.6	8.60	A
Aroclor 1262	ND		ug/kg	46.6	5.91	A
Aroclor 1268	ND		ug/kg	46.6	4.82	A
PCBs, Total	ND		ug/kg	46.6	4.13	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 04/24/23 10:53
Analyst: ER

Extraction Method: EPA 3546
Extraction Date: 04/23/23 06:24
Cleanup Method: EPA 3665A
Cleanup Date: 04/23/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 10 Batch: WG1770039-1						
Aroclor 1016	ND		ug/kg	46.7	4.14	A
Aroclor 1221	ND		ug/kg	46.7	4.68	A
Aroclor 1232	ND		ug/kg	46.7	9.90	A
Aroclor 1242	ND		ug/kg	46.7	6.29	A
Aroclor 1248	ND		ug/kg	46.7	7.00	A
Aroclor 1254	ND		ug/kg	46.7	5.11	A
Aroclor 1260	ND		ug/kg	46.7	8.63	A
Aroclor 1262	ND		ug/kg	46.7	5.93	A
Aroclor 1268	ND		ug/kg	46.7	4.84	A
PCBs, Total	ND		ug/kg	46.7	4.14	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/26/23 16:31
Analyst: ER

Extraction Method: EPA 3510C
Extraction Date: 04/26/23 01:54
Cleanup Method: EPA 3665A
Cleanup Date: 04/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/26/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 12 Batch: WG1771151-1						
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	73		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	73		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Project Number: 100688801

Lab Number: L2320936

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02,04-09,11 Batch: WG1769780-2 WG1769780-3									
Aroclor 1016	91		91		40-140	0		50	A
Aroclor 1260	91		91		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		97		30-150	A
Decachlorobiphenyl	97		95		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		95		30-150	B
Decachlorobiphenyl	90		90		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Project Number: 100688801

Lab Number: L2320936

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 10 Batch: WG1770039-2 WG1770039-3									
Aroclor 1016	78		78		40-140	0		50	A
Aroclor 1260	74		76		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		86		30-150	A
Decachlorobiphenyl	86		88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		83		30-150	B
Decachlorobiphenyl	84		91		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 12 Batch: WG1771151-2 WG1771151-3									
Aroclor 1016	76		84		40-140	10		50	A
Aroclor 1260	71		76		40-140	7		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	75		83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		74		30-150	B
Decachlorobiphenyl	73		78		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

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): 01-02,04-09,11 QC Batch ID: WG1769780-4 WG1769780-5 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5													
Aroclor 1016	ND	364	462	127		385	110		40-140	18		50	A
Aroclor 1260	30.6J	364	318	87		276	79		40-140	14		50	A

Surrogate	MS		MSD		Acceptance Criteria	Column
	% Recovery	Qualifier	% Recovery	Qualifier		
2,4,5,6-Tetrachloro-m-xylene	96		88		30-150	A
Decachlorobiphenyl	92		81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		87		30-150	B
Decachlorobiphenyl	96		84		30-150	B

PESTICIDES

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-01
 Client ID: LSB15A_16.5-18.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/24/23 12:18
 Analyst: MMG
 Percent Solids: 75%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 20:10
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/23/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/23/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.00	0.391	1	A
Lindane	ND		ug/kg	0.832	0.372	1	A
Alpha-BHC	ND		ug/kg	0.832	0.236	1	A
Beta-BHC	ND		ug/kg	2.00	0.757	1	A
Heptachlor	ND		ug/kg	0.998	0.448	1	A
Aldrin	ND		ug/kg	2.00	0.703	1	A
Heptachlor epoxide	ND		ug/kg	3.74	1.12	1	A
Endrin	ND		ug/kg	0.832	0.341	1	A
Endrin aldehyde	ND		ug/kg	2.50	0.874	1	A
Endrin ketone	ND		ug/kg	2.00	0.514	1	A
Dieldrin	ND		ug/kg	1.25	0.624	1	A
4,4'-DDE	ND		ug/kg	2.00	0.462	1	A
4,4'-DDD	ND		ug/kg	2.00	0.712	1	A
4,4'-DDT	ND		ug/kg	2.00	1.60	1	A
Endosulfan I	ND		ug/kg	2.00	0.472	1	A
Endosulfan II	ND		ug/kg	2.00	0.667	1	A
Endosulfan sulfate	ND		ug/kg	0.832	0.396	1	A
Methoxychlor	ND		ug/kg	3.74	1.16	1	A
Toxaphene	ND		ug/kg	37.4	10.5	1	A
cis-Chlordane	ND		ug/kg	2.50	0.696	1	A
trans-Chlordane	ND		ug/kg	2.50	0.659	1	A
Chlordane	ND		ug/kg	16.6	6.61	1	A

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-01
 Client ID: LSB15A_16.5-18.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:00
 Date Received: 04/19/23
 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	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	93		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-01
 Client ID: LSB15A_16.5-18.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/24/23 20:58
 Analyst: AAR
 Percent Solids: 75%
 Methylation Date: 04/23/23 14:49

Extraction Method: EPA 8151A
 Extraction Date: 04/22/23 08:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	219	13.8	1	A
2,4,5-T	ND		ug/kg	219	6.78	1	A
2,4,5-TP (Silvex)	ND		ug/kg	219	5.82	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	72		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-02
 Client ID: LSB17A_14-16
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:25
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/24/23 12:30
 Analyst: MMG
 Percent Solids: 75%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 20:10
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/23/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/23/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.10	0.412	1	B
Lindane	ND		ug/kg	0.876	0.392	1	B
Alpha-BHC	ND		ug/kg	0.876	0.249	1	B
Beta-BHC	ND		ug/kg	2.10	0.798	1	B
Heptachlor	ND		ug/kg	1.05	0.472	1	B
Aldrin	ND		ug/kg	2.10	0.741	1	B
Heptachlor epoxide	ND		ug/kg	3.94	1.18	1	B
Endrin	ND		ug/kg	0.876	0.359	1	B
Endrin aldehyde	ND		ug/kg	2.63	0.920	1	B
Endrin ketone	ND		ug/kg	2.10	0.542	1	B
Dieldrin	ND		ug/kg	1.31	0.657	1	B
4,4'-DDE	ND		ug/kg	2.10	0.486	1	B
4,4'-DDD	ND		ug/kg	2.10	0.750	1	B
4,4'-DDT	ND		ug/kg	2.10	1.69	1	B
Endosulfan I	ND		ug/kg	2.10	0.497	1	B
Endosulfan II	ND		ug/kg	2.10	0.703	1	B
Endosulfan sulfate	ND		ug/kg	0.876	0.417	1	B
Methoxychlor	ND		ug/kg	3.94	1.23	1	B
Toxaphene	ND		ug/kg	39.4	11.0	1	B
cis-Chlordane	ND		ug/kg	2.63	0.733	1	B
trans-Chlordane	ND		ug/kg	2.63	0.694	1	B
Chlordane	ND		ug/kg	17.5	6.97	1	B

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-02

Date Collected: 04/19/23 09:25

Client ID: LSB17A_14-16

Date Received: 04/19/23

Sample Location: 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	39		30-150	A
Decachlorobiphenyl	40		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	100		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-02
 Client ID: LSB17A_14-16
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:25
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/24/23 21:17
 Analyst: AAR
 Percent Solids: 75%
 Methylation Date: 04/23/23 14:49

Extraction Method: EPA 8151A
 Extraction Date: 04/22/23 08:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	216	13.6	1	A
2,4,5-T	ND		ug/kg	216	6.69	1	A
2,4,5-TP (Silvex)	ND		ug/kg	216	5.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	72		30-150	A
DCAA	67		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-04
 Client ID: LSB20A_15-17
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/24/23 12:43
 Analyst: MMG
 Percent Solids: 73%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 20:10
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/23/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/23/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.16	0.422	1	A
Lindane	ND		ug/kg	0.898	0.402	1	A
Alpha-BHC	ND		ug/kg	0.898	0.255	1	A
Beta-BHC	ND		ug/kg	2.16	0.817	1	A
Heptachlor	ND		ug/kg	1.08	0.483	1	A
Aldrin	ND		ug/kg	2.16	0.759	1	A
Heptachlor epoxide	ND		ug/kg	4.04	1.21	1	A
Endrin	ND		ug/kg	0.898	0.368	1	A
Endrin aldehyde	ND		ug/kg	2.69	0.943	1	A
Endrin ketone	ND		ug/kg	2.16	0.555	1	A
Dieldrin	ND		ug/kg	1.35	0.674	1	A
4,4'-DDE	ND		ug/kg	2.16	0.498	1	A
4,4'-DDD	ND		ug/kg	2.16	0.769	1	A
4,4'-DDT	ND		ug/kg	2.16	1.73	1	A
Endosulfan I	ND		ug/kg	2.16	0.509	1	A
Endosulfan II	ND		ug/kg	2.16	0.720	1	A
Endosulfan sulfate	ND		ug/kg	0.898	0.428	1	A
Methoxychlor	ND		ug/kg	4.04	1.26	1	A
Toxaphene	ND		ug/kg	40.4	11.3	1	A
cis-Chlordane	1.59	J	ug/kg	2.69	0.751	1	A
trans-Chlordane	0.764	JIP	ug/kg	2.69	0.711	1	B
Chlordane	ND		ug/kg	18.0	7.14	1	A

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-04

Date Collected: 04/19/23 10:00

Client ID: LSB20A_15-17

Date Received: 04/19/23

Sample Location: 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	76		30-150	A
Decachlorobiphenyl	122		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	113		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-04
 Client ID: LSB20A_15-17
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/24/23 21:35
 Analyst: AAR
 Percent Solids: 73%
 Methylation Date: 04/23/23 14:49

Extraction Method: EPA 8151A
 Extraction Date: 04/22/23 08:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	227	14.3	1	A
2,4,5-T	ND		ug/kg	227	7.03	1	A
2,4,5-TP (Silvex)	ND		ug/kg	227	6.03	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	76		30-150	A
DCAA	64		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-05
 Client ID: DUP01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:05
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/24/23 12:55
 Analyst: MMG
 Percent Solids: 75%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 20:10
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/23/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/23/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.11	0.414	1	B
Lindane	ND		ug/kg	0.880	0.393	1	B
Alpha-BHC	ND		ug/kg	0.880	0.250	1	B
Beta-BHC	ND		ug/kg	2.11	0.801	1	B
Heptachlor	ND		ug/kg	1.06	0.474	1	B
Aldrin	ND		ug/kg	2.11	0.744	1	B
Heptachlor epoxide	ND		ug/kg	3.96	1.19	1	B
Endrin	ND		ug/kg	0.880	0.361	1	B
Endrin aldehyde	ND		ug/kg	2.64	0.924	1	B
Endrin ketone	ND		ug/kg	2.11	0.544	1	B
Dieldrin	ND		ug/kg	1.32	0.660	1	B
4,4'-DDE	0.841	JP	ug/kg	2.11	0.488	1	B
4,4'-DDD	ND		ug/kg	2.11	0.753	1	B
4,4'-DDT	ND		ug/kg	2.11	1.70	1	B
Endosulfan I	ND		ug/kg	2.11	0.499	1	B
Endosulfan II	ND		ug/kg	2.11	0.706	1	B
Endosulfan sulfate	ND		ug/kg	0.880	0.419	1	B
Methoxychlor	ND		ug/kg	3.96	1.23	1	B
Toxaphene	ND		ug/kg	39.6	11.1	1	B
cis-Chlordane	ND		ug/kg	2.64	0.736	1	B
trans-Chlordane	ND		ug/kg	2.64	0.697	1	B
Chlordane	ND		ug/kg	17.6	7.00	1	B

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-05

Date Collected: 04/19/23 10:05

Client ID: DUP01_04192023

Date Received: 04/19/23

Sample Location: 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	32		30-150	A
Decachlorobiphenyl	44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	106		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-05
 Client ID: DUP01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:05
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/24/23 21:54
 Analyst: AAR
 Percent Solids: 75%
 Methylation Date: 04/23/23 14:49

Extraction Method: EPA 8151A
 Extraction Date: 04/22/23 08:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	218	13.7	1	A
2,4,5-T	ND		ug/kg	218	6.76	1	A
2,4,5-TP (Silvex)	ND		ug/kg	218	5.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	65		30-150	A
DCAA	63		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-06
 Client ID: LSB20A_12-14
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:35
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/24/23 13:07
 Analyst: MMG
 Percent Solids: 78%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 20:10
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/23/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/23/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.01	0.393	1	A
Lindane	ND		ug/kg	0.837	0.374	1	A
Alpha-BHC	ND		ug/kg	0.837	0.238	1	A
Beta-BHC	ND		ug/kg	2.01	0.761	1	A
Heptachlor	1.03		ug/kg	1.00	0.450	1	B
Aldrin	ND		ug/kg	2.01	0.707	1	A
Heptachlor epoxide	ND		ug/kg	3.76	1.13	1	A
Endrin	ND		ug/kg	0.837	0.343	1	A
Endrin aldehyde	ND		ug/kg	2.51	0.879	1	A
Endrin ketone	ND		ug/kg	2.01	0.517	1	A
Dieldrin	ND		ug/kg	1.26	0.628	1	A
4,4'-DDE	ND		ug/kg	2.01	0.464	1	A
4,4'-DDD	ND		ug/kg	2.01	0.716	1	A
4,4'-DDT	ND		ug/kg	2.01	1.62	1	B
Endosulfan I	ND		ug/kg	2.01	0.474	1	A
Endosulfan II	ND		ug/kg	2.01	0.671	1	A
Endosulfan sulfate	ND		ug/kg	0.837	0.398	1	A
Methoxychlor	ND		ug/kg	3.76	1.17	1	A
Toxaphene	ND		ug/kg	37.6	10.5	1	A
cis-Chlordane	4.98	IP	ug/kg	2.51	0.700	1	B
trans-Chlordane	7.63		ug/kg	2.51	0.663	1	A
Chlordane	37.1		ug/kg	16.7	6.65	1	A

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-06
 Client ID: LSB20A_12-14
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:35
 Date Received: 04/19/23
 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	84		30-150	A
Decachlorobiphenyl	154	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	145		30-150	B

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-06
 Client ID: LSB20A_12-14
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:35
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/26/23 16:55
 Analyst: AAR
 Percent Solids: 78%
 Methylation Date: 04/26/23 12:07

Extraction Method: EPA 8151A
 Extraction Date: 04/25/23 08:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	213	13.4	1	A
2,4,5-T	ND		ug/kg	213	6.60	1	A
2,4,5-TP (Silvex)	ND		ug/kg	213	5.66	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	83		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-07
Client ID: LSB18A_16.5-18.5
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 11:10
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/24/23 13:19
Analyst: MMG
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 04/22/23 20:10
Cleanup Method: EPA 3620B
Cleanup Date: 04/23/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/23/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.06	0.404	1	B
Lindane	ND		ug/kg	0.859	0.384	1	B
Alpha-BHC	ND		ug/kg	0.859	0.244	1	B
Beta-BHC	ND		ug/kg	2.06	0.782	1	B
Heptachlor	ND		ug/kg	1.03	0.462	1	B
Aldrin	ND		ug/kg	2.06	0.726	1	B
Heptachlor epoxide	ND		ug/kg	3.86	1.16	1	B
Endrin	ND		ug/kg	0.859	0.352	1	B
Endrin aldehyde	ND		ug/kg	2.58	0.902	1	B
Endrin ketone	ND		ug/kg	2.06	0.531	1	B
Dieldrin	ND		ug/kg	1.29	0.644	1	B
4,4'-DDE	ND		ug/kg	2.06	0.477	1	B
4,4'-DDD	ND		ug/kg	2.06	0.735	1	B
4,4'-DDT	ND		ug/kg	2.06	1.66	1	B
Endosulfan I	ND		ug/kg	2.06	0.487	1	B
Endosulfan II	ND		ug/kg	2.06	0.689	1	B
Endosulfan sulfate	ND		ug/kg	0.859	0.409	1	B
Methoxychlor	ND		ug/kg	3.86	1.20	1	B
Toxaphene	ND		ug/kg	38.6	10.8	1	B
cis-Chlordane	ND		ug/kg	2.58	0.718	1	B
trans-Chlordane	ND		ug/kg	2.58	0.680	1	B
Chlordane	ND		ug/kg	17.2	6.83	1	B

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-07
 Client ID: LSB18A_16.5-18.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 11:10
 Date Received: 04/19/23
 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	6	Q	30-150	A
Decachlorobiphenyl	6	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-07
 Client ID: LSB18A_16.5-18.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 11:10
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/26/23 17:32
 Analyst: AAR
 Percent Solids: 73%
 Methylation Date: 04/26/23 12:07

Extraction Method: EPA 8151A
 Extraction Date: 04/25/23 08:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	221	14.0	1	A
2,4,5-T	ND		ug/kg	221	6.86	1	A
2,4,5-TP (Silvex)	ND		ug/kg	221	5.89	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	126		30-150	A
DCAA	121		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-08
Client ID: LSB19A_18-20
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:00
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/24/23 13:31
Analyst: MMG
Percent Solids: 49%

Extraction Method: EPA 3546
Extraction Date: 04/22/23 20:10
Cleanup Method: EPA 3620B
Cleanup Date: 04/23/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/23/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	3.14	0.616	1	B
Lindane	ND		ug/kg	1.31	0.586	1	B
Alpha-BHC	ND		ug/kg	1.31	0.372	1	B
Beta-BHC	ND		ug/kg	3.14	1.19	1	B
Heptachlor	ND		ug/kg	1.57	0.705	1	B
Aldrin	ND		ug/kg	3.14	1.11	1	B
Heptachlor epoxide	ND		ug/kg	5.90	1.77	1	B
Endrin	ND		ug/kg	1.31	0.537	1	B
Endrin aldehyde	ND		ug/kg	3.93	1.38	1	B
Endrin ketone	ND		ug/kg	3.14	0.810	1	B
Dieldrin	ND		ug/kg	1.96	0.983	1	B
4,4'-DDE	ND		ug/kg	3.14	0.727	1	B
4,4'-DDD	ND		ug/kg	3.14	1.12	1	B
4,4'-DDT	ND		ug/kg	3.14	2.53	1	B
Endosulfan I	ND		ug/kg	3.14	0.743	1	B
Endosulfan II	ND		ug/kg	3.14	1.05	1	B
Endosulfan sulfate	ND		ug/kg	1.31	0.624	1	B
Methoxychlor	ND		ug/kg	5.90	1.83	1	B
Toxaphene	ND		ug/kg	59.0	16.5	1	B
cis-Chlordane	ND		ug/kg	3.93	1.10	1	B
trans-Chlordane	ND		ug/kg	3.93	1.04	1	B
Chlordane	ND		ug/kg	26.2	10.4	1	B

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-08

Date Collected: 04/19/23 12:00

Client ID: LSB19A_18-20

Date Received: 04/19/23

Sample Location: 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	2	Q	30-150	A
Decachlorobiphenyl	2	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	102		30-150	B
Decachlorobiphenyl	131		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-08
 Client ID: LSB19A_18-20
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/26/23 17:50
 Analyst: AAR
 Percent Solids: 49%
 Methylation Date: 04/26/23 12:07

Extraction Method: EPA 8151A
 Extraction Date: 04/25/23 08:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	338	21.3	1	A
2,4,5-T	ND		ug/kg	338	10.5	1	A
2,4,5-TP (Silvex)	ND		ug/kg	338	9.00	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	80		30-150	A
DCAA	71		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-09
Client ID: LSB24A_16-18
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:30
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/24/23 14:20
Analyst: MMG
Percent Solids: 52%

Extraction Method: EPA 3546
Extraction Date: 04/22/23 20:10
Cleanup Method: EPA 3620B
Cleanup Date: 04/23/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/23/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.94	0.576	1	A
Lindane	ND		ug/kg	1.23	0.548	1	A
Alpha-BHC	ND		ug/kg	1.23	0.348	1	A
Beta-BHC	ND		ug/kg	2.94	1.12	1	A
Heptachlor	ND		ug/kg	1.47	0.660	1	A
Aldrin	ND		ug/kg	2.94	1.04	1	A
Heptachlor epoxide	ND		ug/kg	5.52	1.66	1	A
Endrin	ND		ug/kg	1.23	0.503	1	A
Endrin aldehyde	ND		ug/kg	3.68	1.29	1	A
Endrin ketone	ND		ug/kg	2.94	0.758	1	A
Dieldrin	ND		ug/kg	1.84	0.920	1	A
4,4'-DDE	ND		ug/kg	2.94	0.681	1	A
4,4'-DDD	ND		ug/kg	2.94	1.05	1	A
4,4'-DDT	ND		ug/kg	2.94	2.37	1	A
Endosulfan I	ND		ug/kg	2.94	0.695	1	A
Endosulfan II	ND		ug/kg	2.94	0.984	1	A
Endosulfan sulfate	ND		ug/kg	1.23	0.584	1	A
Methoxychlor	ND		ug/kg	5.52	1.72	1	A
Toxaphene	ND		ug/kg	55.2	15.4	1	A
cis-Chlordane	ND		ug/kg	3.68	1.02	1	A
trans-Chlordane	ND		ug/kg	3.68	0.971	1	A
Chlordane	ND		ug/kg	24.5	9.75	1	A

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-09
 Client ID: LSB24A_16-18
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:30
 Date Received: 04/19/23
 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	72		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	100		30-150	B
Decachlorobiphenyl	120		30-150	B

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-09
 Client ID: LSB24A_16-18
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:30
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/26/23 18:08
 Analyst: AAR
 Percent Solids: 52%
 Methylation Date: 04/26/23 12:07

Extraction Method: EPA 8151A
 Extraction Date: 04/25/23 08:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	315	19.8	1	A
2,4,5-T	ND		ug/kg	315	9.76	1	A
2,4,5-TP (Silvex)	ND		ug/kg	315	8.37	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	91		30-150	A
DCAA	83		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-10
 Client ID: LSB27A_17-19
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 13:55
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/25/23 13:21
 Analyst: AKM
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 04/23/23 10:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/24/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.84	0.360	1	A
Lindane	ND		ug/kg	0.765	0.342	1	A
Alpha-BHC	ND		ug/kg	0.765	0.217	1	A
Beta-BHC	ND		ug/kg	1.84	0.696	1	A
Heptachlor	ND		ug/kg	0.918	0.412	1	A
Aldrin	ND		ug/kg	1.84	0.646	1	A
Heptachlor epoxide	ND		ug/kg	3.44	1.03	1	A
Endrin	ND		ug/kg	0.765	0.314	1	A
Endrin aldehyde	ND		ug/kg	2.30	0.803	1	A
Endrin ketone	ND		ug/kg	1.84	0.473	1	A
Dieldrin	ND		ug/kg	1.15	0.574	1	A
4,4'-DDE	ND		ug/kg	1.84	0.424	1	A
4,4'-DDD	ND		ug/kg	1.84	0.655	1	A
4,4'-DDT	ND		ug/kg	1.84	1.48	1	A
Endosulfan I	ND		ug/kg	1.84	0.434	1	A
Endosulfan II	ND		ug/kg	1.84	0.614	1	A
Endosulfan sulfate	ND		ug/kg	0.765	0.364	1	A
Methoxychlor	ND		ug/kg	3.44	1.07	1	A
Toxaphene	ND		ug/kg	34.4	9.64	1	A
cis-Chlordane	ND		ug/kg	2.30	0.640	1	A
trans-Chlordane	ND		ug/kg	2.30	0.606	1	A
Chlordane	ND		ug/kg	15.3	6.08	1	A

Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-10

Date Collected: 04/19/23 13:55

Client ID: LSB27A_17-19

Date Received: 04/19/23

Sample Location: 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	71		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-10
 Client ID: LSB27A_17-19
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 13:55
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/26/23 18:27
 Analyst: AAR
 Percent Solids: 83%
 Methylation Date: 04/26/23 12:07

Extraction Method: EPA 8151A
 Extraction Date: 04/25/23 08:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	200	12.6	1	A
2,4,5-T	ND		ug/kg	200	6.19	1	A
2,4,5-TP (Silvex)	ND		ug/kg	200	5.31	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	108		30-150	A
DCAA	88		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-11
 Client ID: LSB16A_19.5-21.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:30
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 04/24/23 13:43
 Analyst: MMG
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 20:10
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/23/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/23/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.86	0.364	1	B
Lindane	ND		ug/kg	0.776	0.347	1	B
Alpha-BHC	ND		ug/kg	0.776	0.220	1	B
Beta-BHC	ND		ug/kg	1.86	0.706	1	B
Heptachlor	ND		ug/kg	0.931	0.417	1	B
Aldrin	ND		ug/kg	1.86	0.655	1	B
Heptachlor epoxide	ND		ug/kg	3.49	1.05	1	B
Endrin	ND		ug/kg	0.776	0.318	1	B
Endrin aldehyde	ND		ug/kg	2.33	0.814	1	B
Endrin ketone	ND		ug/kg	1.86	0.479	1	B
Dieldrin	ND		ug/kg	1.16	0.582	1	B
4,4'-DDE	ND		ug/kg	1.86	0.430	1	B
4,4'-DDD	6.04	P	ug/kg	1.86	0.664	1	B
4,4'-DDT	ND		ug/kg	1.86	1.50	1	B
Endosulfan I	ND		ug/kg	1.86	0.440	1	B
Endosulfan II	ND		ug/kg	1.86	0.622	1	B
Endosulfan sulfate	ND		ug/kg	0.776	0.369	1	B
Methoxychlor	ND		ug/kg	3.49	1.08	1	B
Toxaphene	ND		ug/kg	34.9	9.77	1	B
cis-Chlordane	ND		ug/kg	2.33	0.648	1	B
trans-Chlordane	ND		ug/kg	2.33	0.614	1	B
Chlordane	ND		ug/kg	15.5	6.17	1	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-11
 Client ID: LSB16A_19.5-21.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:30
 Date Received: 04/19/23
 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	20	Q	30-150	A
Decachlorobiphenyl	25	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	122		30-150	B
Decachlorobiphenyl	157	Q	30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-11
 Client ID: LSB16A_19.5-21.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:30
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 04/26/23 18:45
 Analyst: AAR
 Percent Solids: 84%
 Methylation Date: 04/26/23 12:07

Extraction Method: EPA 8151A
 Extraction Date: 04/25/23 08:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	198	12.4	1	A
2,4,5-T	ND		ug/kg	198	6.13	1	A
2,4,5-TP (Silvex)	ND		ug/kg	198	5.26	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	82		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-12
 Client ID: FB-01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 04/26/23 12:20
 Analyst: AKM

Extraction Method: EPA 3510C
 Extraction Date: 04/26/23 00:23

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: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-12
 Client ID: FB-01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:00
 Date Received: 04/19/23
 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	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-12
 Client ID: FB-01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8151A
 Analytical Date: 04/26/23 18:47
 Analyst: AAR

Extraction Method: EPA 8151A
 Extraction Date: 04/25/23 14:11

Methylation Date: 04/26/23 12:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	94		30-150	A
DCAA	82		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/22/23 14:47
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 04/22/23 01:31
Cleanup Method: EPA 3620B
Cleanup Date: 04/22/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02,04-09,11 Batch: WG1769774-1						
Delta-BHC	ND		ug/kg	1.59	0.311	A
Lindane	ND		ug/kg	0.662	0.296	A
Alpha-BHC	ND		ug/kg	0.662	0.188	A
Beta-BHC	ND		ug/kg	1.59	0.602	A
Heptachlor	ND		ug/kg	0.794	0.356	A
Aldrin	ND		ug/kg	1.59	0.559	A
Heptachlor epoxide	ND		ug/kg	2.98	0.893	A
Endrin	ND		ug/kg	0.662	0.271	A
Endrin aldehyde	ND		ug/kg	1.98	0.695	A
Endrin ketone	ND		ug/kg	1.59	0.409	A
Dieldrin	ND		ug/kg	0.993	0.496	A
4,4'-DDE	ND		ug/kg	1.59	0.367	A
4,4'-DDD	ND		ug/kg	1.59	0.566	A
4,4'-DDT	ND		ug/kg	1.59	1.28	A
Endosulfan I	ND		ug/kg	1.59	0.375	A
Endosulfan II	ND		ug/kg	1.59	0.531	A
Endosulfan sulfate	ND		ug/kg	0.662	0.315	A
Methoxychlor	ND		ug/kg	2.98	0.926	A
Toxaphene	ND		ug/kg	29.8	8.34	A
cis-Chlordane	ND		ug/kg	1.98	0.553	A
trans-Chlordane	ND		ug/kg	1.98	0.524	A
Chlordane	ND		ug/kg	13.2	5.26	A

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 04/22/23 14:47
 Analyst: MMG

Extraction Method: EPA 3546
 Extraction Date: 04/22/23 01:31
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/22/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02,04-09,11 Batch: WG1769774-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 04/24/23 14:29
Analyst: AKM

Extraction Method: EPA 8151A
Extraction Date: 04/22/23 08:34

Methylation Date: 04/23/23 14:49

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-02,04-05 Batch: WG1769848-1						
2,4-D	ND		ug/kg	163	10.3	A
2,4,5-T	ND		ug/kg	163	5.05	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.33	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	70		30-150	A
DCAA	63		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/25/23 12:43
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 04/23/23 10:22
Cleanup Method: EPA 3620B
Cleanup Date: 04/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 10 Batch: WG1770086-1						
Delta-BHC	ND		ug/kg	1.57	0.308	A
Lindane	ND		ug/kg	0.654	0.292	A
Alpha-BHC	ND		ug/kg	0.654	0.186	A
Beta-BHC	ND		ug/kg	1.57	0.596	A
Heptachlor	ND		ug/kg	0.785	0.352	A
Aldrin	ND		ug/kg	1.57	0.553	A
Heptachlor epoxide	ND		ug/kg	2.94	0.884	A
Endrin	ND		ug/kg	0.654	0.268	A
Endrin aldehyde	ND		ug/kg	1.96	0.687	A
Endrin ketone	ND		ug/kg	1.57	0.404	A
Dieldrin	ND		ug/kg	0.982	0.491	A
4,4'-DDE	ND		ug/kg	1.57	0.363	A
4,4'-DDD	ND		ug/kg	1.57	0.560	A
4,4'-DDT	ND		ug/kg	1.57	1.26	A
Endosulfan I	ND		ug/kg	1.57	0.371	A
Endosulfan II	ND		ug/kg	1.57	0.525	A
Endosulfan sulfate	ND		ug/kg	0.654	0.312	A
Methoxychlor	ND		ug/kg	2.94	0.916	A
Toxaphene	ND		ug/kg	29.4	8.25	A
cis-Chlordane	ND		ug/kg	1.96	0.547	A
trans-Chlordane	ND		ug/kg	1.96	0.518	A
Chlordane	ND		ug/kg	13.1	5.20	A

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
Analytical Date: 04/25/23 12:43
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 04/23/23 10:22
Cleanup Method: EPA 3620B
Cleanup Date: 04/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 10 Batch: WG1770086-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 04/26/23 14:09
Analyst: MMG

Extraction Method: EPA 8151A
Extraction Date: 04/25/23 08:13

Methylation Date: 04/26/23 12:07

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 06-11 Batch: WG1770761-1						
2,4-D	ND		ug/kg	164	10.3	A
2,4,5-T	ND		ug/kg	164	5.08	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.35	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	103		30-150	A
DCAA	91		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8151A
Analytical Date: 04/26/23 17:51
Analyst: AAR

Extraction Method: EPA 8151A
Extraction Date: 04/25/23 14:11

Methylation Date: 04/26/23 12:29

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 12 Batch: WG1770965-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	84		30-150	B

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/26/23 11:45
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 04/26/23 00:23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 12 Batch: WG1771134-1						
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: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/26/23 11:45
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 04/26/23 00:23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 12 Batch: WG1771134-1						

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	62		30-150	B
Decachlorobiphenyl	70		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02,04-09,11 Batch: WG1769774-2 WG1769774-3									
Delta-BHC	88		90		30-150	2		30	A
Lindane	85		86		30-150	1		30	A
Alpha-BHC	86		87		30-150	1		30	A
Beta-BHC	86		89		30-150	3		30	A
Heptachlor	83		85		30-150	2		30	A
Aldrin	81		83		30-150	2		30	A
Heptachlor epoxide	73		74		30-150	1		30	A
Endrin	86		87		30-150	1		30	A
Endrin aldehyde	57		53		30-150	7		30	A
Endrin ketone	84		77		30-150	9		30	A
Dieldrin	90		91		30-150	1		30	A
4,4'-DDE	83		84		30-150	1		30	A
4,4'-DDD	93		93		30-150	0		30	A
4,4'-DDT	88		88		30-150	0		30	A
Endosulfan I	79		81		30-150	3		30	A
Endosulfan II	85		84		30-150	1		30	A
Endosulfan sulfate	57		52		30-150	9		30	A
Methoxychlor	91		89		30-150	2		30	A
cis-Chlordane	71		72		30-150	1		30	A
trans-Chlordane	94		96		30-150	2		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02,04-09,11 Batch: WG1769774-2 WG1769774-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	77		75		30-150	A
Decachlorobiphenyl	101		94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		74		30-150	B
Decachlorobiphenyl	104		98		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-02,04-05 Batch: WG1769848-2 WG1769848-3									
2,4-D	80		84		30-150	5		30	A
2,4,5-T	73		71		30-150	3		30	A
2,4,5-TP (Silvex)	74		72		30-150	3		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	79		80		30-150	A
DCAA	73		76		30-150	B



Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 10 Batch: WG1770086-2 WG1770086-3									
Delta-BHC	94		89		30-150	5		30	A
Lindane	82		80		30-150	2		30	A
Alpha-BHC	91		86		30-150	6		30	A
Beta-BHC	84		78		30-150	7		30	A
Heptachlor	89		84		30-150	6		30	A
Aldrin	87		81		30-150	7		30	A
Heptachlor epoxide	87		80		30-150	8		30	A
Endrin	93		85		30-150	9		30	A
Endrin aldehyde	61		58		30-150	5		30	A
Endrin ketone	79		73		30-150	8		30	A
Dieldrin	100		92		30-150	8		30	A
4,4'-DDE	93		85		30-150	9		30	A
4,4'-DDD	102		93		30-150	9		30	A
4,4'-DDT	95		85		30-150	11		30	A
Endosulfan I	89		82		30-150	8		30	A
Endosulfan II	93		85		30-150	9		30	A
Endosulfan sulfate	60		55		30-150	9		30	A
Methoxychlor	90		83		30-150	8		30	A
cis-Chlordane	81		74		30-150	9		30	A
trans-Chlordane	105		94		30-150	11		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 10 Batch: WG1770086-2 WG1770086-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	75		72		30-150	A
Decachlorobiphenyl	74		74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		73		30-150	B
Decachlorobiphenyl	66		64		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 06-11 Batch: WG1770761-2 WG1770761-3									
2,4-D	103		112		30-150	8		30	A
2,4,5-T	95		107		30-150	12		30	A
2,4,5-TP (Silvex)	97		107		30-150	10		30	A

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria	Column
DCAA	89		94		30-150	A
DCAA	81		88		30-150	B



Lab Control Sample Analysis Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 12 Batch: WG1770965-2 WG1770965-3									
2,4-D	94		87		30-150	8		25	A
2,4,5-T	108		108		30-150	0		25	A
2,4,5-TP (Silvex)	107		110		30-150	3		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	90		91		30-150	A
DCAA	90		93		30-150	B



Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 12 Batch: WG1771134-2 WG1771134-3									
Delta-BHC	68		79		30-150	15		20	A
Lindane	66		77		30-150	14		20	A
Alpha-BHC	71		83		30-150	16		20	A
Beta-BHC	63		72		30-150	14		20	A
Heptachlor	65		75		30-150	13		20	A
Aldrin	69		78		30-150	12		20	A
Heptachlor epoxide	64		73		30-150	14		20	A
Endrin	63		73		30-150	14		20	A
Endrin aldehyde	59		70		30-150	18		20	A
Endrin ketone	67		77		30-150	14		20	A
Dieldrin	69		78		30-150	13		20	A
4,4'-DDE	67		76		30-150	13		20	A
4,4'-DDD	70		80		30-150	14		20	A
4,4'-DDT	65		77		30-150	17		20	A
Endosulfan I	65		74		30-150	14		20	A
Endosulfan II	67		77		30-150	14		20	A
Endosulfan sulfate	64		74		30-150	14		20	A
Methoxychlor	66		76		30-150	14		20	A
cis-Chlordane	72		78		30-150	8		20	A
trans-Chlordane	82		94		30-150	14		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Project Number: 100688801

Lab Number: L2320936

Report Date: 05/11/23

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 12 Batch: WG1771134-2 WG1771134-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	61		70		30-150	A
Decachlorobiphenyl	62		72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		67		30-150	B
Decachlorobiphenyl	60		69		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Project Number: 100688801

Lab Number: L2320936

Report Date: 05/11/23

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>	<i>Column</i>
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02,04-09,11 QC Batch ID: WG1769774-4 WG1769774-5 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5													
Delta-BHC	ND	38.8	46.0P	119		57.0P	145		30-150	21		50	B
Lindane	ND	38.8	33.4P	86		41.1P	104		30-150	21		50	B
Alpha-BHC	ND	38.8	33.7P	87		40.7P	103		30-150	19		50	B
Beta-BHC	ND	38.8	34.6P	89		41.1P	104		30-150	17		50	B
Heptachlor	ND	38.8	30.7P	79		34.3P	87		30-150	11		50	B
Aldrin	ND	38.8	31.6P	81		36.3P	92		30-150	14		50	B
Heptachlor epoxide	ND	38.8	28.7P	74		33.0P	84		30-150	14		50	B
Endrin	ND	38.8	30.1P	78		34.1P	87		30-150	12		50	B
Endrin aldehyde	ND	38.8	20.8P	54		21.9P	56		30-150	5		50	B
Endrin ketone	ND	38.8	25.2P	65		28.0P	71		30-150	11		50	B
Dieldrin	ND	38.8	33.4P	86		37.0P	94		30-150	10		50	B
4,4'-DDE	ND	38.8	28.9P	75		34.0P	86		30-150	16		50	B
4,4'-DDD	6.04P	38.8	38.1P	83		40.5P	88		30-150	6		50	B
4,4'-DDT	ND	38.8	33.2P	86		35.3P	90		30-150	6		50	B
Endosulfan I	ND	38.8	29.0P	75		31.7P	81		30-150	9		50	B
Endosulfan II	ND	38.8	31.8P	82		34.5P	88		30-150	8		50	B
Endosulfan sulfate	ND	38.8	23.2P	60		24.4P	62		30-150	5		50	B
Methoxychlor	ND	38.8	31.5P	81		30.6P	78		30-150	3		50	B
cis-Chlordane	ND	38.8	27.3P	70		30.7P	78		30-150	12		50	B
trans-Chlordane	ND	38.8	26.2P	68		23.6P	60		30-150	10		50	B

Matrix Spike Analysis**Batch Quality Control****Project Name:** 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02,04-09,11 QC Batch ID: WG1769774-4 WG1769774-5 QC Sample: L2320936-11
Client ID: LSB16A_19.5-21.5

Surrogate	MS		MSD		Acceptance Criteria	Column
	% Recovery	Qualifier	% Recovery	Qualifier		
2,4,5,6-Tetrachloro-m-xylene	11	Q	9	Q	30-150	A
Decachlorobiphenyl	13	Q	10	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	104		128		30-150	B
Decachlorobiphenyl	178	Q	147		30-150	B

Matrix Spike Analysis Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

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): 06-11 QC Batch ID: WG1770761-4 WG1770761-5 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5													
2,4-D	ND	195	217	111		212	108		30-150	2		30	A
2,4,5-T	ND	195	184J	94		174J	89		30-150	6		30	A
2,4,5-TP (Silvex)	ND	195	189J	97		178J	91		30-150	6		30	A

Surrogate	MS		MSD		Acceptance Criteria	Column
	% Recovery	Qualifier	% Recovery	Qualifier		
DCAA	98		93		30-150	A
DCAA	88		85		30-150	B



METALS

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-01
 Client ID: LSB15A_16.5-18.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8210		mg/kg	9.97	2.69	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
Antimony, Total	0.635	J	mg/kg	4.98	0.379	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
Arsenic, Total	3.30		mg/kg	0.997	0.207	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
Barium, Total	16.9		mg/kg	0.997	0.174	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.515		mg/kg	0.498	0.033	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
Cadmium, Total	ND		mg/kg	0.997	0.098	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
Calcium, Total	1460		mg/kg	9.97	3.49	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
Chromium, Total	16.4		mg/kg	0.997	0.096	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
Cobalt, Total	2.38		mg/kg	1.99	0.166	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
Copper, Total	10.9		mg/kg	0.997	0.257	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
Iron, Total	9820		mg/kg	4.98	0.900	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
Lead, Total	63.0		mg/kg	4.98	0.267	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
Magnesium, Total	1350		mg/kg	9.97	1.54	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
Manganese, Total	114		mg/kg	0.997	0.158	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
Mercury, Total	ND		mg/kg	0.088	0.057	1	04/25/23 10:56	04/25/23 20:34	EPA 7471B	1,7471B	DMB
Nickel, Total	7.71		mg/kg	2.49	0.241	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
Potassium, Total	457		mg/kg	249	14.4	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
Selenium, Total	0.565	J	mg/kg	1.99	0.257	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.498	0.282	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
Sodium, Total	178	J	mg/kg	199	3.14	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.99	0.314	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
Vanadium, Total	22.5		mg/kg	0.997	0.202	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
Zinc, Total	18.5		mg/kg	4.98	0.292	2	04/25/23 10:37	04/25/23 16:55	EPA 3050B	1,6010D	JMF
General Chemistry - Mansfield Lab											
Chromium, Trivalent	16.4		mg/kg	1.06	1.06	1		04/25/23 16:55	NA	107,-	



Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-02
 Client ID: LSB17A_14-16
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:25
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5390		mg/kg	10.2	2.74	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
Antimony, Total	0.486	J	mg/kg	5.08	0.386	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
Arsenic, Total	2.00		mg/kg	1.02	0.211	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
Barium, Total	16.1		mg/kg	1.02	0.177	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.326	J	mg/kg	0.508	0.034	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
Cadmium, Total	ND		mg/kg	1.02	0.100	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
Calcium, Total	925		mg/kg	10.2	3.56	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
Chromium, Total	9.80		mg/kg	1.02	0.098	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
Cobalt, Total	1.72	J	mg/kg	2.03	0.169	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
Copper, Total	5.35		mg/kg	1.02	0.262	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
Iron, Total	8260		mg/kg	5.08	0.918	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
Lead, Total	15.6		mg/kg	5.08	0.272	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
Magnesium, Total	996		mg/kg	10.2	1.56	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
Manganese, Total	56.9		mg/kg	1.02	0.162	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
Mercury, Total	0.101		mg/kg	0.088	0.057	1	04/25/23 10:56	04/25/23 20:37	EPA 7471B	1,7471B	DMB
Nickel, Total	5.30		mg/kg	2.54	0.246	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
Potassium, Total	272		mg/kg	254	14.6	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
Selenium, Total	0.274	J	mg/kg	2.03	0.262	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.508	0.288	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
Sodium, Total	47.6	J	mg/kg	203	3.20	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	2.03	0.320	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
Vanadium, Total	13.6		mg/kg	1.02	0.206	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
Zinc, Total	30.4		mg/kg	5.08	0.298	2	04/25/23 10:37	04/25/23 17:00	EPA 3050B	1,6010D	JMF
General Chemistry - Mansfield Lab											
Chromium, Trivalent	9.80		mg/kg	1.06	1.06	1		04/25/23 17:00	NA	107,-	



Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-04
 Client ID: LSB20A_15-17
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7330		mg/kg	10.3	2.79	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
Antimony, Total	0.884	J	mg/kg	5.17	0.393	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
Arsenic, Total	4.20		mg/kg	1.03	0.215	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
Barium, Total	13.2		mg/kg	1.03	0.180	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.437	J	mg/kg	0.517	0.034	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
Cadmium, Total	9.16		mg/kg	1.03	0.101	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
Calcium, Total	530		mg/kg	10.3	3.62	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
Chromium, Total	16.2		mg/kg	1.03	0.099	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
Cobalt, Total	5.25		mg/kg	2.07	0.172	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
Copper, Total	13.9		mg/kg	1.03	0.267	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
Iron, Total	16100		mg/kg	5.17	0.934	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
Lead, Total	28.8		mg/kg	5.17	0.277	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
Magnesium, Total	3810		mg/kg	10.3	1.59	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
Manganese, Total	64.7		mg/kg	1.03	0.164	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
Mercury, Total	ND		mg/kg	0.090	0.059	1	04/25/23 10:56	04/25/23 20:41	EPA 7471B	1,7471B	DMB
Nickel, Total	38.6		mg/kg	2.59	0.250	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
Potassium, Total	279		mg/kg	259	14.9	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
Selenium, Total	0.602	J	mg/kg	2.07	0.267	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.517	0.293	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
Sodium, Total	48.3	J	mg/kg	207	3.26	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
Thallium, Total	0.360	J	mg/kg	2.07	0.326	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
Vanadium, Total	17.2		mg/kg	1.03	0.210	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
Zinc, Total	704		mg/kg	5.17	0.303	2	04/25/23 10:37	04/25/23 17:04	EPA 3050B	1,6010D	JMF
General Chemistry - Mansfield Lab											
Chromium, Trivalent	15.9	J	mg/kg	1.10	1.10	1		04/25/23 17:04	NA	107,-	



Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-05

Date Collected: 04/19/23 10:05

Client ID: DUP01_04192023

Date Received: 04/19/23

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 75%

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	10.1	2.74	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
Antimony, Total	1.66	J	mg/kg	5.07	0.385	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
Arsenic, Total	6.15		mg/kg	1.01	0.211	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
Barium, Total	17.3		mg/kg	1.01	0.176	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.478	J	mg/kg	0.507	0.033	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
Cadmium, Total	17.8		mg/kg	1.01	0.099	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
Calcium, Total	652		mg/kg	10.1	3.55	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
Chromium, Total	19.5		mg/kg	1.01	0.097	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
Cobalt, Total	7.87		mg/kg	2.03	0.168	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
Copper, Total	34.0		mg/kg	1.01	0.262	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
Iron, Total	28700		mg/kg	5.07	0.915	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
Lead, Total	64.9		mg/kg	5.07	0.272	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
Magnesium, Total	1480		mg/kg	10.1	1.56	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
Manganese, Total	107		mg/kg	1.01	0.161	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
Mercury, Total	ND		mg/kg	0.086	0.056	1	04/25/23 10:56	04/25/23 20:44	EPA 7471B	1,7471B	DMB
Nickel, Total	27.8		mg/kg	2.53	0.245	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
Potassium, Total	266		mg/kg	253	14.6	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
Selenium, Total	0.408	J	mg/kg	2.03	0.262	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.507	0.287	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
Sodium, Total	41.2	J	mg/kg	203	3.19	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
Thallium, Total	0.406	J	mg/kg	2.03	0.319	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
Vanadium, Total	16.0		mg/kg	1.01	0.206	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
Zinc, Total	1500		mg/kg	5.07	0.297	2	04/25/23 10:37	04/25/23 17:44	EPA 3050B	1,6010D	JMF
General Chemistry - Mansfield Lab											
Chromium, Trivalent	19.5		mg/kg	1.07	1.07	1		04/25/23 17:44	NA	107,-	



Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-06
 Client ID: LSB20A_12-14
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:35
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3220		mg/kg	9.76	2.63	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
Antimony, Total	1.39	J	mg/kg	4.88	0.371	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
Arsenic, Total	8.13		mg/kg	0.976	0.203	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
Barium, Total	360		mg/kg	0.976	0.170	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.514		mg/kg	0.488	0.032	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.582	J	mg/kg	0.976	0.096	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
Calcium, Total	2120		mg/kg	9.76	3.41	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
Chromium, Total	15.2		mg/kg	0.976	0.094	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
Cobalt, Total	4.38		mg/kg	1.95	0.162	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
Copper, Total	63.4		mg/kg	0.976	0.252	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
Iron, Total	9070		mg/kg	4.88	0.881	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
Lead, Total	183		mg/kg	4.88	0.261	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
Magnesium, Total	407		mg/kg	9.76	1.50	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
Manganese, Total	47.5		mg/kg	0.976	0.155	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
Mercury, Total	0.379		mg/kg	0.088	0.057	1	04/25/23 10:56	04/25/23 20:54	EPA 7471B	1,7471B	DMB
Nickel, Total	13.0		mg/kg	2.44	0.236	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
Potassium, Total	327		mg/kg	244	14.0	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
Selenium, Total	0.993	J	mg/kg	1.95	0.252	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.488	0.276	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
Sodium, Total	91.8	J	mg/kg	195	3.07	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.95	0.307	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
Vanadium, Total	23.7		mg/kg	0.976	0.198	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
Zinc, Total	245		mg/kg	4.88	0.286	2	04/25/23 10:37	04/25/23 17:49	EPA 3050B	1,6010D	JMF
General Chemistry - Mansfield Lab											
Chromium, Trivalent	14.9	J	mg/kg	1.03	1.03	1		04/25/23 17:49	NA	107,-	



Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-07
 Client ID: LSB18A_16.5-18.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 11:10
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2700		mg/kg	10.4	2.80	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
Antimony, Total	1.69	J	mg/kg	5.20	0.395	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
Arsenic, Total	6.61		mg/kg	1.04	0.216	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
Barium, Total	429		mg/kg	1.04	0.181	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.456	J	mg/kg	0.520	0.034	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
Cadmium, Total	1.82		mg/kg	1.04	0.102	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
Calcium, Total	15000		mg/kg	10.4	3.64	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
Chromium, Total	15.0		mg/kg	1.04	0.100	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
Cobalt, Total	3.29		mg/kg	2.08	0.172	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
Copper, Total	76.3		mg/kg	1.04	0.268	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
Iron, Total	19300		mg/kg	5.20	0.938	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
Lead, Total	4400		mg/kg	5.20	0.278	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
Magnesium, Total	554		mg/kg	10.4	1.60	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
Manganese, Total	169		mg/kg	1.04	0.165	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
Mercury, Total	0.140		mg/kg	0.096	0.063	1	04/25/23 10:56	04/25/23 20:57	EPA 7471B	1,7471B	DMB
Nickel, Total	7.05		mg/kg	2.60	0.251	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
Potassium, Total	249	J	mg/kg	260	15.0	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
Selenium, Total	1.89	J	mg/kg	2.08	0.268	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
Silver, Total	0.594		mg/kg	0.520	0.294	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
Sodium, Total	110	J	mg/kg	208	3.27	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	2.08	0.327	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
Vanadium, Total	15.9		mg/kg	1.04	0.211	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
Zinc, Total	2030		mg/kg	5.20	0.304	2	04/25/23 10:37	04/25/23 17:53	EPA 3050B	1,6010D	JMF
General Chemistry - Mansfield Lab											
Chromium, Trivalent	15.0		mg/kg	1.09	1.09	1		04/25/23 17:53	NA	107,-	



Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-08
 Client ID: LSB19A_18-20
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 49%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3200		mg/kg	15.4	4.17	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
Antimony, Total	1.86	J	mg/kg	7.72	0.587	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
Arsenic, Total	10.2		mg/kg	1.54	0.321	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
Barium, Total	527		mg/kg	1.54	0.269	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.461	J	mg/kg	0.772	0.051	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
Cadmium, Total	4.71		mg/kg	1.54	0.151	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
Calcium, Total	4210		mg/kg	15.4	5.41	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
Chromium, Total	23.7		mg/kg	1.54	0.148	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
Cobalt, Total	6.06		mg/kg	3.09	0.256	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
Copper, Total	77.9		mg/kg	1.54	0.399	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
Iron, Total	19700		mg/kg	7.72	1.40	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
Lead, Total	1240		mg/kg	7.72	0.414	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
Magnesium, Total	393		mg/kg	15.4	2.38	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
Manganese, Total	151		mg/kg	1.54	0.246	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
Mercury, Total	0.291		mg/kg	0.132	0.086	1	04/25/23 10:56	04/25/23 21:00	EPA 7471B	1,7471B	DMB
Nickel, Total	13.5		mg/kg	3.86	0.374	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
Potassium, Total	312	J	mg/kg	386	22.2	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
Selenium, Total	0.796	J	mg/kg	3.09	0.399	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.772	0.437	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
Sodium, Total	114	J	mg/kg	309	4.87	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	3.09	0.487	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
Vanadium, Total	18.0		mg/kg	1.54	0.314	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
Zinc, Total	1100		mg/kg	7.72	0.453	2	04/25/23 10:37	04/25/23 17:58	EPA 3050B	1,6010D	JMF
General Chemistry - Mansfield Lab											
Chromium, Trivalent	23.7		mg/kg	1.64	1.64	1		04/25/23 17:58	NA	107,-	



Project Name: 12096 FLATLANDS AVENUE**Lab Number:** L2320936**Project Number:** 100688801**Report Date:** 05/11/23**SAMPLE RESULTS**

Lab ID: L2320936-09
 Client ID: LSB24A_16-18
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:30
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 52%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	14800		mg/kg	14.6	3.94	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
Antimony, Total	0.929	J	mg/kg	7.30	0.555	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
Arsenic, Total	2.72		mg/kg	1.46	0.304	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
Barium, Total	9.67		mg/kg	1.46	0.254	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.573	J	mg/kg	0.730	0.048	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
Cadmium, Total	ND		mg/kg	1.46	0.143	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
Calcium, Total	782		mg/kg	14.6	5.11	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
Chromium, Total	17.2		mg/kg	1.46	0.140	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
Cobalt, Total	2.97		mg/kg	2.92	0.242	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
Copper, Total	5.18		mg/kg	1.46	0.377	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
Iron, Total	8450		mg/kg	7.30	1.32	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
Lead, Total	16.3		mg/kg	7.30	0.391	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
Magnesium, Total	1750		mg/kg	14.6	2.25	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
Manganese, Total	40.4		mg/kg	1.46	0.232	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
Mercury, Total	ND		mg/kg	0.136	0.089	1	04/25/23 10:56	04/25/23 21:04	EPA 7471B	1,7471B	DMB
Nickel, Total	12.9		mg/kg	3.65	0.353	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
Potassium, Total	741		mg/kg	365	21.0	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
Selenium, Total	0.745	J	mg/kg	2.92	0.377	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.730	0.413	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
Sodium, Total	289	J	mg/kg	292	4.60	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	2.92	0.460	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
Vanadium, Total	17.3		mg/kg	1.46	0.296	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
Zinc, Total	30.4		mg/kg	7.30	0.428	2	04/25/23 10:37	04/25/23 18:03	EPA 3050B	1,6010D	JMF
General Chemistry - Mansfield Lab											
Chromium, Trivalent	17.2		mg/kg	1.55	1.55	1		04/25/23 18:03	NA	107,-	



Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-10
 Client ID: LSB27A_17-19
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 13:55
 Date Received: 04/19/23
 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	3640		mg/kg	9.20	2.48	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
Antimony, Total	0.361	J	mg/kg	4.60	0.350	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
Arsenic, Total	1.08		mg/kg	0.920	0.191	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
Barium, Total	19.8		mg/kg	0.920	0.160	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.351	J	mg/kg	0.460	0.030	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
Cadmium, Total	ND		mg/kg	0.920	0.090	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
Calcium, Total	455		mg/kg	9.20	3.22	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
Chromium, Total	6.73		mg/kg	0.920	0.088	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
Cobalt, Total	2.72		mg/kg	1.84	0.153	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
Copper, Total	7.60		mg/kg	0.920	0.237	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
Iron, Total	6130		mg/kg	4.60	0.831	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
Lead, Total	4.02	J	mg/kg	4.60	0.246	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
Magnesium, Total	1520		mg/kg	9.20	1.42	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
Manganese, Total	37.7		mg/kg	0.920	0.146	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
Mercury, Total	ND		mg/kg	0.076	0.050	1	04/25/23 10:56	04/25/23 21:07	EPA 7471B	1,7471B	DMB
Nickel, Total	11.6		mg/kg	2.30	0.223	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
Potassium, Total	331		mg/kg	230	13.2	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
Selenium, Total	0.330	J	mg/kg	1.84	0.237	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.460	0.260	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
Sodium, Total	32.1	J	mg/kg	184	2.90	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.84	0.290	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
Vanadium, Total	10.4		mg/kg	0.920	0.187	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
Zinc, Total	12.1		mg/kg	4.60	0.270	2	04/25/23 10:37	04/25/23 18:07	EPA 3050B	1,6010D	JMF
General Chemistry - Mansfield Lab											
Chromium, Trivalent	6.73		mg/kg	0.963	0.963	1		04/25/23 18:07	NA	107,-	



Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-11
 Client ID: LSB16A_19.5-21.5
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:30
 Date Received: 04/19/23
 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	4040		mg/kg	8.98	2.42	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
Antimony, Total	0.815	J	mg/kg	4.49	0.341	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
Arsenic, Total	3.17		mg/kg	0.898	0.187	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
Barium, Total	77.2		mg/kg	0.898	0.156	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.409	J	mg/kg	0.449	0.030	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.280	J	mg/kg	0.898	0.088	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
Calcium, Total	10900		mg/kg	8.98	3.14	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
Chromium, Total	22.4		mg/kg	0.898	0.086	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
Cobalt, Total	4.54		mg/kg	1.80	0.149	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
Copper, Total	32.8		mg/kg	0.898	0.232	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
Iron, Total	13400		mg/kg	4.49	0.811	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
Lead, Total	79.1		mg/kg	4.49	0.241	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
Magnesium, Total	6460		mg/kg	8.98	1.38	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
Manganese, Total	125		mg/kg	0.898	0.143	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
Mercury, Total	0.089		mg/kg	0.078	0.051	1	04/25/23 10:56	04/25/23 19:41	EPA 7471B	1,7471B	DMB
Nickel, Total	26.6		mg/kg	2.24	0.217	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
Potassium, Total	406		mg/kg	224	12.9	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
Selenium, Total	0.259	J	mg/kg	1.80	0.232	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.449	0.254	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
Sodium, Total	112	J	mg/kg	180	2.83	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.80	0.283	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
Vanadium, Total	19.8		mg/kg	0.898	0.182	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
Zinc, Total	94.2		mg/kg	4.49	0.263	2	04/25/23 10:37	04/25/23 15:21	EPA 3050B	1,6010D	JMF
General Chemistry - Mansfield Lab											
Chromium, Trivalent	22.4		mg/kg	0.951	0.951	1		04/25/23 15:21	NA	107,-	



Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-12
 Client ID: FB-01_04192023
 Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:00
 Date Received: 04/19/23
 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	ND		mg/l	0.0100	0.00327	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
Antimony, Total	ND		mg/l	0.00400	0.00042	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
Barium, Total	ND		mg/l	0.00050	0.00017	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
Calcium, Total	0.0473	J	mg/l	0.100	0.0394	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00060	J	mg/l	0.00100	0.00017	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
Copper, Total	ND		mg/l	0.00100	0.00038	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
Iron, Total	ND		mg/l	0.0500	0.0191	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
Lead, Total	ND		mg/l	0.00100	0.00034	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
Manganese, Total	ND		mg/l	0.00100	0.00044	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
Mercury, Total	ND		mg/l	0.00020	0.00009	1	04/21/23 12:00	04/26/23 11:13	EPA 7470A	1,7470A	DMB
Nickel, Total	ND		mg/l	0.00200	0.00055	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
Potassium, Total	ND		mg/l	0.100	0.0309	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
Selenium, Total	ND		mg/l	0.00500	0.00173	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
Sodium, Total	0.162		mg/l	0.100	0.0293	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
Zinc, Total	ND		mg/l	0.01000	0.00341	1	04/21/23 10:25	04/23/23 22:45	EPA 3005A	1,6020B	WKP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		04/23/23 22:45	NA	107,-	



Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

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): 12 Batch: WG1769101-1									
Aluminum, Total	ND	mg/l	0.0100	0.00327	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP
Antimony, Total	ND	mg/l	0.00400	0.00042	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP
Arsenic, Total	ND	mg/l	0.00050	0.00016	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP
Barium, Total	ND	mg/l	0.00050	0.00017	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP
Beryllium, Total	ND	mg/l	0.00050	0.00010	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP
Cadmium, Total	ND	mg/l	0.00020	0.00005	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP
Calcium, Total	ND	mg/l	0.100	0.0394	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP
Chromium, Total	ND	mg/l	0.00100	0.00017	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP
Cobalt, Total	ND	mg/l	0.00050	0.00016	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP
Copper, Total	ND	mg/l	0.00100	0.00038	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP
Iron, Total	ND	mg/l	0.0500	0.0191	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP
Lead, Total	ND	mg/l	0.00100	0.00034	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP
Magnesium, Total	ND	mg/l	0.0700	0.0242	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP
Manganese, Total	ND	mg/l	0.00100	0.00044	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP
Nickel, Total	ND	mg/l	0.00200	0.00055	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP
Potassium, Total	ND	mg/l	0.100	0.0309	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP
Selenium, Total	ND	mg/l	0.00500	0.00173	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP
Silver, Total	ND	mg/l	0.00040	0.00016	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP
Sodium, Total	ND	mg/l	0.100	0.0293	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP
Thallium, Total	ND	mg/l	0.00100	0.00014	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP
Vanadium, Total	ND	mg/l	0.00500	0.00157	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP
Zinc, Total	ND	mg/l	0.01000	0.00341	1	04/21/23 10:25	04/23/23 21:52	1,6020B	WKP

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): 12 Batch: WG1769104-1									
Mercury, Total	ND	mg/l	0.00020	0.00009	1	04/21/23 12:00	04/26/23 10:53	1,7470A	DMB



Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

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
Total Metals - Mansfield Lab for sample(s): 01-02,04-11 Batch: WG1769133-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF
Antimony, Total	ND		mg/kg	2.00	0.152	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF
Arsenic, Total	0.099	J	mg/kg	0.400	0.083	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF
Barium, Total	ND		mg/kg	0.400	0.070	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF
Beryllium, Total	ND		mg/kg	0.200	0.013	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF
Cadmium, Total	ND		mg/kg	0.400	0.039	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF
Calcium, Total	ND		mg/kg	4.00	1.40	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF
Chromium, Total	ND		mg/kg	0.400	0.038	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF
Cobalt, Total	ND		mg/kg	0.800	0.066	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF
Copper, Total	ND		mg/kg	0.400	0.103	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF
Iron, Total	ND		mg/kg	2.00	0.361	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF
Lead, Total	ND		mg/kg	2.00	0.107	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF
Magnesium, Total	ND		mg/kg	4.00	0.616	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF
Manganese, Total	ND		mg/kg	0.400	0.064	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF
Nickel, Total	ND		mg/kg	1.00	0.097	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF
Potassium, Total	12.9	J	mg/kg	100	5.76	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF
Selenium, Total	ND		mg/kg	0.800	0.103	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF
Silver, Total	ND		mg/kg	0.200	0.113	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF
Sodium, Total	7.70	J	mg/kg	80.0	1.26	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF
Thallium, Total	ND		mg/kg	0.800	0.126	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF
Vanadium, Total	ND		mg/kg	0.400	0.081	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF
Zinc, Total	ND		mg/kg	2.00	0.117	1	04/25/23 10:37	04/25/23 14:57	1,6010D	JMF

Prep Information

Digestion Method: EPA 3050B



Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

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): 01-02,04-11 Batch: WG1769134-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	04/25/23 10:56	04/25/23 19:34	1,7471B	DMB

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 12 Batch: WG1769101-2								
Aluminum, Total	100		-		80-120	-		
Antimony, Total	83		-		80-120	-		
Arsenic, Total	99		-		80-120	-		
Barium, Total	99		-		80-120	-		
Beryllium, Total	104		-		80-120	-		
Cadmium, Total	101		-		80-120	-		
Calcium, Total	96		-		80-120	-		
Chromium, Total	99		-		80-120	-		
Cobalt, Total	98		-		80-120	-		
Copper, Total	99		-		80-120	-		
Iron, Total	100		-		80-120	-		
Lead, Total	120		-		80-120	-		
Magnesium, Total	99		-		80-120	-		
Manganese, Total	101		-		80-120	-		
Nickel, Total	97		-		80-120	-		
Potassium, Total	98		-		80-120	-		
Selenium, Total	101		-		80-120	-		
Silver, Total	104		-		80-120	-		
Sodium, Total	92		-		80-120	-		
Thallium, Total	95		-		80-120	-		
Vanadium, Total	98		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Project Number: 100688801

Lab Number: L2320936

Report Date: 05/11/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 12 Batch: WG1769101-2					
Zinc, Total	97	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 12 Batch: WG1769104-2					
Mercury, Total	90	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Project Number: 100688801

Lab Number: L2320936

Report Date: 05/11/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02,04-11 Batch: WG1769133-2 SRM Lot Number: D116-540					
Aluminum, Total	81	-	45-155	-	
Antimony, Total	177	-	2-205	-	
Arsenic, Total	96	-	82-119	-	
Barium, Total	94	-	82-118	-	
Beryllium, Total	100	-	82-118	-	
Cadmium, Total	98	-	82-118	-	
Calcium, Total	91	-	81-119	-	
Chromium, Total	99	-	81-118	-	
Cobalt, Total	98	-	83-117	-	
Copper, Total	97	-	83-117	-	
Iron, Total	96	-	58-142	-	
Lead, Total	100	-	83-117	-	
Magnesium, Total	91	-	75-125	-	
Manganese, Total	92	-	82-118	-	
Nickel, Total	98	-	82-118	-	
Potassium, Total	92	-	68-131	-	
Selenium, Total	100	-	78-122	-	
Silver, Total	95	-	79-121	-	
Sodium, Total	100	-	71-130	-	
Thallium, Total	105	-	80-120	-	
Vanadium, Total	97	-	78-122	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Project Number: 100688801

Lab Number: L2320936

Report Date: 05/11/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02,04-11 Batch: WG1769133-2 SRM Lot Number: D116-540					
Zinc, Total	95	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-02,04-11 Batch: WG1769134-2 SRM Lot Number: D116-540					
Mercury, Total	92	-	58-142	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 12 QC Batch ID: WG1769101-3 QC Sample: L2321035-01 Client ID: MS Sample												
Aluminum, Total	0.0369	2	2.05	101		-	-		75-125	-		20
Antimony, Total	0.0006J	0.5	0.4786	96		-	-		75-125	-		20
Arsenic, Total	0.00078	0.12	0.1260	104		-	-		75-125	-		20
Barium, Total	0.01772	2	1.964	97		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.05253	105		-	-		75-125	-		20
Cadmium, Total	ND	0.053	0.05382	102		-	-		75-125	-		20
Calcium, Total	12.5	10	23.7	112		-	-		75-125	-		20
Chromium, Total	0.00056J	0.2	0.2037	102		-	-		75-125	-		20
Cobalt, Total	ND	0.5	0.5045	101		-	-		75-125	-		20
Copper, Total	0.00102	0.25	0.2554	102		-	-		75-125	-		20
Iron, Total	0.335	1	1.35	102		-	-		75-125	-		20
Lead, Total	0.00037J	0.53	0.5417	102		-	-		75-125	-		20
Magnesium, Total	1.95	10	12.3	104		-	-		75-125	-		20
Manganese, Total	0.07042	0.5	0.5927	104		-	-		75-125	-		20
Nickel, Total	0.00065J	0.5	0.5033	101		-	-		75-125	-		20
Potassium, Total	4.57	10	14.8	102		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.124	103		-	-		75-125	-		20
Silver, Total	ND	0.05	0.05284	106		-	-		75-125	-		20
Sodium, Total	31.4	10	38.7	73	Q	-	-		75-125	-		20
Thallium, Total	ND	0.12	0.07549	63	Q	-	-		75-125	-		20
Vanadium, Total	ND	0.5	0.5055	101		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

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): 12 QC Batch ID: WG1769101-3 QC Sample: L2321035-01 Client ID: MS Sample									
Zinc, Total	0.00354J	0.5	0.4894	98	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 12 QC Batch ID: WG1769104-3 QC Sample: L2321035-02 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00483	97	-	-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Lab Number: L2320936

Project Number: 100688801

Report Date: 05/11/23

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): 01-02,04-11 QC Batch ID: WG1769133-3 WG1769133-4 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5									
Aluminum, Total	4040	180	4080	22	Q 4590	306	Q 75-125	12	20
Antimony, Total	0.815J	45	46.4	103	46.4	103	75-125	0	20
Arsenic, Total	3.17	10.8	14.3	103	14.5	105	75-125	1	20
Barium, Total	77.2	180	254	98	259	101	75-125	2	20
Beryllium, Total	0.409J	4.5	5.03	112	5.11	114	75-125	2	20
Cadmium, Total	0.280J	4.77	4.84	101	4.94	104	75-125	2	20
Calcium, Total	10900	900	15900	555	Q 10900	0	Q 75-125	37	Q 20
Chromium, Total	22.4	18	34.9	69	Q 36.2	77	75-125	4	20
Cobalt, Total	4.54	45	46.9	94	47.4	95	75-125	1	20
Copper, Total	32.8	22.5	56.9	107	60.7	124	75-125	6	20
Iron, Total	13400	90	12600	0	Q 12900	0	Q 75-125	2	20
Lead, Total	79.1	47.7	125	96	132	111	75-125	5	20
Magnesium, Total	6460	900	8290	203	Q 5090	0	Q 75-125	48	Q 20
Manganese, Total	125	45	157	71	Q 170	100	75-125	8	20
Nickel, Total	26.6	45	55.1	63	Q 56.3	66	Q 75-125	2	20
Potassium, Total	406	900	1320	102	1390	109	75-125	5	20
Selenium, Total	0.259J	10.8	11.1	103	11.0	102	75-125	1	20
Silver, Total	ND	4.5	4.24	94	4.23	94	75-125	0	20
Sodium, Total	112J	900	1090	121	1060	118	75-125	3	20
Thallium, Total	ND	10.8	10.3	95	10.5	97	75-125	2	20
Vanadium, Total	19.8	45	66.3	103	63.9	98	75-125	4	20

Matrix Spike Analysis Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

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): 01-02,04-11 QC Batch ID: WG1769133-3 WG1769133-4 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5									
Zinc, Total	94.2	45	130	80	152	128	Q 75-125	16	20
Total Metals - Mansfield Lab Associated sample(s): 01-02,04-11 QC Batch ID: WG1769134-3 WG1769134-4 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5									
Mercury, Total	0.089	1.62	1.68	98	1.62	98	80-120	4	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE

Project Number: 100688801

Lab Number: L2320936

Report Date: 05/11/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 12 QC Batch ID: WG1769101-4 QC Sample: L2321035-01 Client ID: DUP Sample						
Aluminum, Total	0.0369	0.0409	mg/l	10		20
Arsenic, Total	0.00078	0.00076	mg/l	2		20
Barium, Total	0.01772	0.01732	mg/l	2		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	0.00056J	0.00059J	mg/l	NC		20
Copper, Total	0.00102	0.00104	mg/l	2		20
Iron, Total	0.335	0.339	mg/l	1		20
Lead, Total	0.00037J	0.00037J	mg/l	NC		20
Manganese, Total	0.07042	0.06957	mg/l	1		20
Nickel, Total	0.00065J	0.00067J	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Zinc, Total	0.00354J	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 12 QC Batch ID: WG1769104-4 QC Sample: L2321035-02 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20

Project Name: 12096 FLATLANDS AVENUE

Project Number: 100688801

**Lab Serial Dilution
Analysis
Batch Quality Control**

Lab Number: L2320936

Report Date: 05/11/23

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02,04-11 QC Batch ID: WG1769133-6 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5						
Aluminum, Total	4040	4090	mg/kg	1		20
Barium, Total	77.2	76.4	mg/kg	1		20
Calcium, Total	10900	11000	mg/kg	1		20
Copper, Total	32.8	32.8	mg/kg	0		20
Iron, Total	13400	14000	mg/kg	4		20
Magnesium, Total	6460	6770	mg/kg	5		20
Manganese, Total	125	130	mg/kg	4		20

INORGANICS & MISCELLANEOUS

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-01
Client ID: LSB15A_16.5-18.5
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:00
Date Received: 04/19/23
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	75.4		%	0.100	NA	1	-	04/20/23 09:19	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.3	0.28	1	04/26/23 10:00	04/26/23 18:21	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/kg	1.06	0.212	1	04/20/23 20:00	04/21/23 00:05	1,7196A	WMT



Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-02
Client ID: LSB17A_14-16
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 09:25
Date Received: 04/19/23
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	75.3		%	0.100	NA	1	-	04/20/23 09:19	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.3	0.27	1	04/26/23 10:00	04/26/23 18:22	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/kg	1.06	0.212	1	04/20/23 20:00	04/21/23 00:05	1,7196A	WMT



Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-04
Client ID: LSB20A_15-17
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:00
Date Received: 04/19/23
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	73.0		%	0.100	NA	1	-	04/20/23 09:19	121,2540G	ROI
Cyanide, Total	0.38	J	mg/kg	1.3	0.27	1	04/26/23 16:40	04/27/23 12:31	1,9010C/9012B	JER
Chromium, Hexavalent	0.301	J	mg/kg	1.10	0.219	1	04/20/23 20:00	04/21/23 00:05	1,7196A	WMT



Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-05
Client ID: DUP01_04192023
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:05
Date Received: 04/19/23
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	74.8		%	0.100	NA	1	-	04/20/23 09:19	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	04/26/23 16:40	04/27/23 12:36	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/kg	1.07	0.214	1	04/20/23 20:00	04/21/23 00:05	1,7196A	WMT



Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-06
Client ID: LSB20A_12-14
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 10:35
Date Received: 04/19/23
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	77.6		%	0.100	NA	1	-	04/20/23 09:19	121,2540G	ROI
Cyanide, Total	0.41	J	mg/kg	1.2	0.26	1	04/26/23 16:40	04/27/23 12:37	1,9010C/9012B	JER
Chromium, Hexavalent	0.296	J	mg/kg	1.03	0.206	1	04/20/23 20:00	04/21/23 00:05	1,7196A	WMT



Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-07
Client ID: LSB18A_16.5-18.5
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 11:10
Date Received: 04/19/23
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	73.4		%	0.100	NA	1	-	04/20/23 09:19	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.3	0.27	1	04/26/23 16:40	04/27/23 12:38	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/kg	1.09	0.218	1	04/20/23 20:00	04/21/23 00:05	1,7196A	WMT



Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-08
Client ID: LSB19A_18-20
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:00
Date Received: 04/19/23
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	48.7		%	0.100	NA	1	-	04/20/23 09:19	121,2540G	ROI
Cyanide, Total	1.1	J	mg/kg	1.9	0.40	1	04/26/23 16:40	04/27/23 12:39	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/kg	1.64	0.328	1	04/20/23 20:00	04/21/23 00:05	1,7196A	WMT



Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-09
Client ID: LSB24A_16-18
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 12:30
Date Received: 04/19/23
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	51.5		%	0.100	NA	1	-	04/20/23 09:19	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.9	0.40	1	04/26/23 16:40	04/27/23 12:40	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/kg	1.55	0.311	1	04/20/23 20:00	04/21/23 00:05	1,7196A	WMT



Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-10
Client ID: LSB27A_17-19
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 13:55
Date Received: 04/19/23
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	-	04/20/23 09:19	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	04/26/23 16:40	04/27/23 12:41	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/kg	0.963	0.192	1	04/20/23 20:00	04/21/23 00:05	1,7196A	WMT



Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-11
Client ID: LSB16A_19.5-21.5
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:30
Date Received: 04/19/23
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	84.1		%	0.100	NA	1	-	04/20/23 09:33	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	04/26/23 16:40	04/27/23 12:43	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/kg	0.951	0.190	1	04/20/23 20:00	04/21/23 00:05	1,7196A	WMT



Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

SAMPLE RESULTS

Lab ID: L2320936-12
Client ID: FB-01_04192023
Sample Location: BROOKLYN, NY

Date Collected: 04/19/23 14:00
Date Received: 04/19/23
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	04/26/23 16:40	04/27/23 12:21	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/20/23 11:30	04/20/23 11:50	1,7196A	KEP



Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

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): 12 Batch: WG1769095-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/20/23 11:30	04/20/23 11:48	1,7196A	KEP
General Chemistry - Westborough Lab for sample(s): 01-02,04-11 Batch: WG1769247-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	04/20/23 20:00	04/21/23 00:05	1,7196A	WMT
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1771225-1										
Cyanide, Total	ND		mg/kg	0.83	0.18	1	04/26/23 10:00	04/26/23 17:37	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 04-10 Batch: WG1771365-1										
Cyanide, Total	ND		mg/kg	0.93	0.20	1	04/26/23 16:40	04/27/23 12:25	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 11 Batch: WG1771367-1										
Cyanide, Total	ND		mg/kg	0.93	0.20	1	04/26/23 16:40	04/27/23 12:25	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 12 Batch: WG1771371-1										
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	04/26/23 16:40	04/27/23 11:50	1,9010C/9012B	JER

Lab Control Sample Analysis

Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 12 Batch: WG1769095-2								
Chromium, Hexavalent	98		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02,04-11 Batch: WG1769247-2								
Chromium, Hexavalent	102		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1771225-2 WG1771225-3								
Cyanide, Total	82		100		80-120	20		35
General Chemistry - Westborough Lab Associated sample(s): 04-10 Batch: WG1771365-2 WG1771365-3								
Cyanide, Total	100		110		80-120	10		35
General Chemistry - Westborough Lab Associated sample(s): 11 Batch: WG1771367-2 WG1771367-3								
Cyanide, Total	100		100		80-120	10		35
General Chemistry - Westborough Lab Associated sample(s): 12 Batch: WG1771371-2 WG1771371-3								
Cyanide, Total	93		90		85-115	3		20

Matrix Spike Analysis Batch Quality Control

Project Name: 12096 FLATLANDS AVENUE
Project Number: 100688801

Lab Number: L2320936
Report Date: 05/11/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 12 QC Batch ID: WG1769095-4 QC Sample: L2320936-12 Client ID: FB-01_04192023												
Chromium, Hexavalent	ND	0.1	0.100	100	-	-	-	-	85-115	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02,04-11 QC Batch ID: WG1769247-4 WG1769247-5 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5												
Chromium, Hexavalent	ND	1560	826	53	Q	811	61	Q	75-125	2	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1771225-4 WG1771225-5 QC Sample: L2320818-53 Client ID: MS Sample												
Cyanide, Total	ND	15	14	93	-	18	130	Q	75-125	33	-	35
General Chemistry - Westborough Lab Associated sample(s): 04-10 QC Batch ID: WG1771365-4 WG1771365-5 QC Sample: L2320936-04 Client ID: LSB20A_15-17												
Cyanide, Total	0.38J	14	13	93	-	0.82J	0	Q	75-125	NC	-	35
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1771367-4 WG1771367-5 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5												
Cyanide, Total	ND	11	10	91	-	11	100	-	75-125	10	-	35
General Chemistry - Westborough Lab Associated sample(s): 12 QC Batch ID: WG1771371-4 WG1771371-5 QC Sample: L2320818-43 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.202	101	-	0.206	103	-	80-120	2	-	20

Lab Duplicate Analysis

Batch Quality Control

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Project Number: 100688801

Lab Number: L2320936

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Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02,04-10 QC Batch ID: WG1768882-1 QC Sample: L2320936-01 Client ID: LSB15A_16.5-18.5						
Solids, Total	75.4	75.0	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1768883-1 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5						
Solids, Total	84.1	85.0	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 12 QC Batch ID: WG1769095-3 QC Sample: L2320936-12 Client ID: FB-01_04192023						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-02,04-11 QC Batch ID: WG1769247-7 QC Sample: L2320936-11 Client ID: LSB16A_19.5-21.5						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

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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

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2320936-01A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2320936-01B	Vial water preserved	A	NA		2.7	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-01C	Vial water preserved	A	NA		2.7	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-01D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2320936-01E	Plastic 120ml unpreserved	A	NA		2.7	Y	Absent		TS(7)
L2320936-01F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	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),ZN-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),CU-TI(180),CO-TI(180),V-TI(180),MG-TI(180),FE-TI(180),MN-TI(180),HG-T(28),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2320936-01G	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-01H	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-1633-DRAFT(90)
L2320936-01J	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-02A	Vial MeOH preserved	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L2320936-02B	Vial water preserved	C	NA		2.1	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-02C	Vial water preserved	C	NA		2.1	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-02D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2320936-02E	Plastic 120ml unpreserved	C	NA		2.1	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days



Project Name: 12096 FLATLANDS AVENUE
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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2320936-02F	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MN-TI(180),HG-T(28),FE-TI(180),MG-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2320936-02G	Glass 120ml/4oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-02H	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-1633-DRAFT(90)
L2320936-02J	Glass 500ml/16oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-03A	Vial MeOH preserved	A	NA		2.7	Y	Absent		HOLD-8260HLW(14)
L2320936-03B	Vial water preserved	A	NA		2.7	Y	Absent	20-APR-23 02:53	HOLD-8260HLW(14)
L2320936-03C	Vial water preserved	A	NA		2.7	Y	Absent	20-APR-23 02:53	HOLD-8260HLW(14)
L2320936-03D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		HOLD-WETCHEM()
L2320936-03E	Plastic 120ml unpreserved	A	NA		2.7	Y	Absent		HOLD-WETCHEM()
L2320936-03F	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2320936-03G	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HOLD-8270(14),HOLD-8081(14),HOLD-8082(14)
L2320936-03H	Plastic 8oz unpreserved	A	NA	NA	2.7	Y	Absent		HOLD-1633(90)
L2320936-03J	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		HOLD-8270(14),HOLD-8081(14),HOLD-8082(14)
L2320936-04A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2320936-04B	Vial water preserved	A	NA		2.7	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-04C	Vial water preserved	A	NA		2.7	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-04D	Plastic 2oz unpreserved for TS	C	NA		2.1	Y	Absent		TS(7)
L2320936-04E	Plastic 120ml unpreserved	A	NA		2.7	Y	Absent		TS(7)
L2320936-04F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),CO-TI(180),V-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)
L2320936-04G	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

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Project Number: 100688801

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2320936-04H	Plastic 8oz unpreserved	C	NA		2.1	Y	Absent		A2-1633-DRAFT(90)
L2320936-04J	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-05A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2320936-05B	Vial water preserved	A	NA		2.7	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-05C	Vial water preserved	A	NA		2.7	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-05D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2320936-05E	Plastic 120ml unpreserved	A	NA		2.7	Y	Absent		TS(7)
L2320936-05F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2320936-05G	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-05H	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-1633-DRAFT(90)
L2320936-05J	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-06A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2320936-06B	Vial water preserved	A	NA		2.7	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-06C	Vial water preserved	A	NA		2.7	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-06E	Plastic 60ml unpreserved	A	NA		2.7	Y	Absent		TS(7)
L2320936-06F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	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),ZN-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MN-TI(180),MG-TI(180),FE-TI(180),HG-T(28),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2320936-06G	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-06H	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-1633-DRAFT(90)
L2320936-06J	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days



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Project Number: 100688801

Serial_No:05112317:39
Lab Number: L2320936
Report Date: 05/11/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2320936-07A	Vial MeOH preserved	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L2320936-07B	Vial water preserved	C	NA		2.1	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-07C	Vial water preserved	C	NA		2.1	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-07D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2320936-07E	Plastic 120ml unpreserved	C	NA		2.1	Y	Absent		TS(7)
L2320936-07F	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.1	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),PB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),V-TI(180),CO-TI(180),MN-TI(180),MG-TI(180),HG-T(28),FE-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2320936-07G	Glass 120ml/4oz unpreserved	C	NA		2.1	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-07H	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-1633-DRAFT(90)
L2320936-07J	Glass 500ml/16oz unpreserved	C	NA		2.1	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-08A	Vial MeOH preserved	C	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L2320936-08B	Vial water preserved	C	NA		2.1	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-08C	Vial water preserved	C	NA		2.1	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-08D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2320936-08E	Plastic 120ml unpreserved	C	NA		2.1	Y	Absent		TS(7)
L2320936-08F	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.1	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),PB-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),MN-TI(180),MG-TI(180),FE-TI(180),HG-T(28),NA-TI(180),K-TI(180),CD-TI(180),CA-TI(180)
L2320936-08G	Glass 120ml/4oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-08H	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-1633-DRAFT(90)
L2320936-08J	Glass 500ml/16oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-09A	Vial MeOH preserved	D	NA		3.7	Y	Absent		NYTCL-8260HLW(14)
L2320936-09B	Vial water preserved	D	NA		3.7	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days



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Project Number: 100688801

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Report Date: 05/11/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2320936-09C	Vial water preserved	D	NA		3.7	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-09D	Plastic 2oz unpreserved for TS	D	NA		3.7	Y	Absent		TS(7)
L2320936-09E	Plastic 120ml unpreserved	D	NA		3.7	Y	Absent		TS(7)
L2320936-09F	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.7	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),CU-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),PB-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)
L2320936-09G	Glass 120ml/4oz unpreserved	D	NA		3.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-09H	Plastic 8oz unpreserved	D	NA		3.7	Y	Absent		A2-1633-DRAFT(90)
L2320936-09J	Glass 500ml/16oz unpreserved	D	NA		3.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-10A	Vial MeOH preserved	D	NA		3.7	Y	Absent		NYTCL-8260HLW(14)
L2320936-10B	Vial water preserved	D	NA		3.7	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-10C	Vial water preserved	D	NA		3.7	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-10D	Plastic 2oz unpreserved for TS	D	NA		3.7	Y	Absent		TS(7)
L2320936-10E	Plastic 120ml unpreserved	D	NA		3.7	Y	Absent		TS(7)
L2320936-10F	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),SE-TI(180),SB-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2320936-10G	Glass 120ml/4oz unpreserved	D	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-10H	Plastic 8oz unpreserved	D	NA		3.7	Y	Absent		A2-1633-DRAFT(90)
L2320936-10J	Glass 500ml/16oz unpreserved	D	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-11A	Vial MeOH preserved	D	NA		3.7	Y	Absent		NYTCL-8260HLW(14)
L2320936-11A1	Vial MeOH preserved	D	NA		3.7	Y	Absent		NYTCL-8260HLW(14)
L2320936-11A2	Vial MeOH preserved	D	NA		3.7	Y	Absent		NYTCL-8260HLW(14)
L2320936-11B	Vial water preserved	D	NA		3.7	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days



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Project Number: 100688801

Serial_No:05112317:39
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Report Date: 05/11/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2320936-11B1	Vial water preserved	D	NA		3.7	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-11B2	Vial water preserved	D	NA		3.7	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-11C	Vial water preserved	D	NA		3.7	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-11C1	Vial water preserved	D	NA		3.7	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-11C2	Vial water preserved	D	NA		3.7	Y	Absent	20-APR-23 02:53	NYTCL-8260HLW(14)
L2320936-11D	Plastic 2oz unpreserved for TS	D	NA		3.7	Y	Absent		TS(7)
L2320936-11D1	Plastic 2oz unpreserved for TS	D	NA		3.7	Y	Absent		TS(7)
L2320936-11D2	Plastic 2oz unpreserved for TS	D	NA		3.7	Y	Absent		TS(7)
L2320936-11E	Plastic 120ml unpreserved	D	NA		3.7	Y	Absent		TS(7)
L2320936-11E1	Plastic 120ml unpreserved	D	NA		3.7	Y	Absent		TS(7)
L2320936-11E2	Plastic 120ml unpreserved	D	NA		3.7	Y	Absent		TS(7)
L2320936-11F	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.7	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),CU-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2320936-11F1	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.7	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),CU-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2320936-11F2	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.7	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),CU-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2320936-11G	Glass 120ml/4oz unpreserved	D	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-11G1	Glass 120ml/4oz unpreserved	D	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-11G2	Glass 120ml/4oz unpreserved	D	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-11H	Plastic 8oz unpreserved	D	NA		3.7	Y	Absent		A2-1633-DRAFT(90)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2320936-11H1	Plastic 8oz unpreserved	D	NA		3.7	Y	Absent		A2-1633-DRAFT(90)
L2320936-11H2	Plastic 8oz unpreserved	D	NA		3.7	Y	Absent		A2-1633-DRAFT(90)
L2320936-11J	Glass 500ml/16oz unpreserved	D	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-11J1	Glass 500ml/16oz unpreserved	D	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-11J2	Glass 500ml/16oz unpreserved	D	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2320936-12A	Vial HCl preserved	B	NA		2.7	Y	Absent		NYTCL-8260(14)
L2320936-12B	Vial HCl preserved	B	NA		2.7	Y	Absent		NYTCL-8260(14)
L2320936-12C	Vial HCl preserved	B	NA		2.7	Y	Absent		NYTCL-8260(14)
L2320936-12D	Amber 120ml unpreserved	B	7	7	2.7	Y	Absent		NYTCL-8082-LVI(365)
L2320936-12E	Amber 120ml unpreserved	B	7	7	2.7	Y	Absent		NYTCL-8082-LVI(365)
L2320936-12F	Amber 120ml unpreserved	B	7	7	2.7	Y	Absent		NYTCL-8081(7)
L2320936-12G	Amber 120ml unpreserved	B	7	7	2.7	Y	Absent		NYTCL-8081(7)
L2320936-12H	Amber 250ml unpreserved	B	7	7	2.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2320936-12J	Amber 250ml unpreserved	B	7	7	2.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2320936-12K	Amber 250ml unpreserved	B	7	7	2.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2320936-12L	Amber 250ml unpreserved	B	7	7	2.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2320936-12M	Plastic 500ml unpreserved	B	NA		2.7	Y	Absent		A2-1633-DRAFT(28)
L2320936-12N	Plastic 500ml unpreserved	B	7	7	2.7	Y	Absent		HEXCR-7196(1)
L2320936-12O	Plastic 250ml NaOH preserved	B	>12	>12	2.7	Y	Absent		TCN-9010(14)
L2320936-12P	Plastic 250ml HNO3 preserved	B	<2	<2	2.7	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),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),HG-T(28),AG-6020T(180),CD-6020T(180),AL-6020T(180),MG-6020T(180),CO-6020T(180)
L2320936-12Q	Amber 1000ml unpreserved	B	7	7	2.7	Y	Absent		HERB-APA(7)

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L2320936-12R	Amber 1000ml unpreserved	B	7	7	2.7	Y	Absent		HERB-APA(7)
L2320936-13A	Amber 250ml unpreserved	B	7	7	2.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2320936-13B	Amber 250ml unpreserved	B	7	7	2.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2320936-13C	Amber 250ml unpreserved	B	7	7	2.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2320936-13E	Plastic 950ml unpreserved	D	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2320936-13F	Plastic 950ml unpreserved	D	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2320936-13G	Plastic 500ml unpreserved	D	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2320936-13H	Plastic 500ml unpreserved	D	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2320936-13J	Plastic 500ml unpreserved	D	NA		3.7	Y	Absent		A2-1633-DRAFT(28)
L2320936-14A	Vial HCl preserved	B	NA		2.7	Y	Absent		NYTCL-8260(14)
L2320936-14B	Vial HCl preserved	B	NA		2.7	Y	Absent		NYTCL-8260(14)
L2320936-14C	Vial HCl preserved	A	NA		2.7	Y	Absent		NYTCL-8260(14)
L2320936-14D	Vial HCl preserved	A	NA		2.7	Y	Absent		NYTCL-8260(14)

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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/PFTeDA	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/PFDoS	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
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
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/PFOSA	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-Chloroeicosafuoro-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

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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

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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.

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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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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.

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

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Data Qualifiers

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.
- 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.)

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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.
- 144 Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS. Draft EPA Method 1633, EPA Document 821-D-22-001, June 2022.

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, SM4500CI-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, **LCHAT 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	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	Date Rec'd in Lab	ALPHA Job #
		1 of 2	4/19/23	62320936

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	Project Information Project Name: 12074 Flatlands Avenue Project Location: Brooklyn, NY Project # 1006888011	Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> EQUS (1 File) <input type="checkbox"/> Other	<input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUS (4 File)	Billing Information <input type="checkbox"/> Same as Client Info PO #
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Client Information Client: Langan Address: 300 Kimball Drive Parsippany, NJ 07054 Phone: 973 560-4900 Fax: Email: kott@langan.com	Project Manager: Ben Rao ALPHAQuote #: Q22054 Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:	Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> AWQ Standards <input checked="" type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:
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These samples have been previously analyzed by Alpha <input type="checkbox"/>	ANALYSIS																		
Other project specific requirements/comments: * Please hold LSB17A-16-18 Please specify Metals or TAL.	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:5%;">VOCs</th> <th style="width:5%;">SVOCs, Pesticides</th> <th style="width:5%;">Herbicides, PCBs</th> <th style="width:5%;">TAL Metals</th> <th style="width:5%;">Trivalent Chromium</th> <th style="width:5%;">Hexavalent Chromium</th> <th style="width:5%;">Total Cyanide</th> <th style="width:5%;">PFAS 1,4-dioxane</th> <th style="width:15%;">Sample Filtration</th> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below) </td> </tr> </table>	VOCs	SVOCs, Pesticides	Herbicides, PCBs	TAL Metals	Trivalent Chromium	Hexavalent Chromium	Total Cyanide	PFAS 1,4-dioxane	Sample Filtration	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below)
VOCs	SVOCs, Pesticides	Herbicides, PCBs	TAL Metals	Trivalent Chromium	Hexavalent Chromium	Total Cyanide	PFAS 1,4-dioxane	Sample Filtration											
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ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	VOCs	SVOCs, Pesticides	Herbicides, PCBs	TAL Metals	Trivalent Chromium	Hexavalent Chromium	Total Cyanide	PFAS 1,4-dioxane	Sample Specific Comments
		Date	Time											
20936-01	LSB15A-16.5-18.5	04/19/2023	0900	S	GA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
-02	LSB17A-14-16		0925			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
03	*LSB17A-16-18		0935			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
04	LSB20A-15-17		1000			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
05	DUP01 04/19/2023		1005			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
06	LSB20A-12-14		1035			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
07	LSB18A-16.5-18.5		1110			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
08	LSB19A-18-20		1200			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
09	LSB24A-16-18		1230			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
10	LSB27A-17-19		1355			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O 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	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.)
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Relinquished By:	Date/Time	Received By:	Date/Time
ESTHER JUNE LANGAN	04/19/2023 14:50	[Signature]	4/19/23 14:50
[Signature]	4/19/23 18:30	[Signature]	4/19/23 18:45
[Signature]	4/19/23 23:15	[Signature]	4/19/23 23:15

 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 2 of 2	Date Rec'd in Lab 4/19/23	ALPHA Job # 22320436	
		Project Information Project Name: 12074 Flatlands Avenue Project Location: Brooklyn, NY Project # 100688801 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input type="checkbox"/> Same as Client Info PO #
Client Information Client: Langan Address: 300 Kimball Drive Passapatanz, NJ 07054 Phone: 973-560-4900 Fax: Email: lkott@langan.com		Project Manager: Ben Rao ALPHAQuote #: Q22054 Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input checked="" type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:
 Extra volume collected for MS/MSD for LSB16A-195-215

Please specify Metals or TAL.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	VOLs	SVOCs, Pesticides Herbicides, PCBs	TAL Metals	18-Crchrom	Hex Chrom	Total Cyanide	PPPs, 1,4-dioxane	Sample Specific Comments	Total Bottles
		Date	Time											
20936-11	LSB16A-195-215	04/19/2023	1430	S	EA	✓	✓	✓	✓	✓	✓	✓		
-12	FB01-04192023	↓	1400	AQ	↓	✓	✓	✓	✓	✓	✓	✓		
-13	FB01-04192023	↓	1400	AQ	↓	✓	✓	✓	✓	✓	✓	✓		
-14	TB01-04192023	↓	-	AQ	-	✓	✓	✓	✓	✓	✓	✓		
EA		EA		EA		EA		EA		EA		EA		

Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O 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 Estrova Anthony / Langan 04/19/2023 14:50 [Signature] 4/19/23 14:50 [Signature] 4/19/23 18:30 [Signature] 4/19/23 18:45 [Signature] 4/19/23 [Signature] 4/19/23 21:30 [Signature] 4/19/23 23:15 [Signature] 4/19/23 23:15	Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)
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ATTACHMENT 4

Data Usability Summary Report (DUSR)

1 University Square Drive Princeton, NJ 08540 T: 609.282.8000
Mailing Address: 1 University Square Drive Princeton, NJ 08540

To: Lauren Kott, Langan Senior Staff Engineer
From: Joe Conboy, Langan Senior Staff Chemist
Date: May 12, 2023
Re: Data Usability Summary Report
For 12096 Flatlands Avenue
April 2023 Soil Samples
Langan Project No.: 100688802

This memorandum presents the findings of an analytical data validation from the analysis of soil samples collected in April 2023 by Langan Engineering and Environmental Services at 12096 Flatlands Avenue. The samples were analyzed by Alpha Analytical Laboratories, Inc. (NYSDOH NELAP registration # 11148) for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), per- and polyfluoroalkyl substances (PFAS), herbicides, polychlorinated biphenyls (PCBs), pesticides, metals, cyanide (CN), hexavalent chromium (CrVI), and trivalent chromium (CrIII) by the methods specified below.

- VOCs by SW-846 Method 8260C
- SVOCs by SW-846 Method 8270D
- PFAS by USEPA Method 1633
- Herbicides by SW-846 Method 8151A
- PCBs by SW-846 Method 8082A
- Pesticides by SW-846 Method 8081B
- Metals by SW-846 Methods 6010D/7471B
- Cyanide by SW-846 Method 9012B
- Hexavalent Chromium by SW-846 Method 7196A
- Trivalent Chromium (calculated)

Table 1, attached, summarizes the laboratory and client sample identification numbers, sample collection dates, level of data validation, and analytical parameters subject to review.

Validation Overview

This data validation was performed in accordance with the following guidelines, where applicable:

- USEPA Region II Standard Operating Procedures (SOPs) for Data Validation

Technical Memorandum

- USEPA Contract Laboratory Program “National Functional Guidelines for Organic Superfund Methods Data Review” (EPA 540- R-20-005, November 2020)
- USEPA Contract Laboratory Program “National Functional Guidelines for Inorganic Superfund Methods Data Review” (EPA 540- R-20-005, November 2020), and
- published analytical methodologies.

The following acronyms may be used in the discussion of data-quality issues:

%D	Percent Difference	MB	Method Blank
CCV	Continuing Calibration Verification	MDL	Method Detection Limit
FB	Field Blank	MS	Matrix Spike
FD	Field Duplicate	MSD	Matrix Spike Duplicate
ICAL	Initial Calibration	RF	Response Factor
ICV	Initial Calibration Verification	RL	Reporting Limit
ISTD	Internal Standard	RPD	Relative Percent Difference
LCL	Lower Control Limit	RSD	Relative Standard Deviation
LCS	Laboratory Control Sample	TB	Trip Blank
LCSD	Laboratory Control Sample Duplicate	UCL	Upper Control Limit

Tier 1 data validation is based on completeness and compliance checks of sample-related QC results including: sample receipt documentation; analytical holding times; sample preservation; blank results (method, field, and trip); surrogate recoveries; MS/MSD recoveries and RPDs values; field duplicate RPDs, laboratory duplicate RPDs, and LCS/LCSD recoveries and RPDs. All SDGs underwent Tier 1 validation review.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA guidelines and our best professional judgment:

- R** – The sample results are unusable because certain criteria were not met when generating the data. The analyte may or may not be present in the sample.
- J** – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ** – The analyte was not detected at a level greater than or equal to the reporting limit; however, the reported reporting limit is approximate and may be inaccurate or imprecise.
- U** – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.
- NJ** – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

Technical Memorandum

Data Usability Summary Report
For 12096 Flatlands Avenue
April 2023 Soil Samples
Langan Project No.: 100688802
May 12, 2023 Page 3 of 8

If any validation qualifiers are assigned, these qualifiers should supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items specified for review. Data that is qualified as "R" are considered invalid and are not technically usable for data interpretation. Data that is otherwise qualified because of minor data-quality anomalies are usable, as qualified in Table 2 (attached).

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. No major deficiencies were identified.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. The section below describes the minor deficiencies that were identified.

SVOCs by SW-846 Method 8270D

L2320936

The LCSD for batch WG1769789 exhibited a percent recovery below the LCL for 4-chloroaniline (38%). The associated results in samples DUP01_04192023, LSB15A_16.5-18.5, LSB16A_19.5-21.5, LSB17A_14-16, LSB18A_16.5-18.5, LSB19A_18-20, LSB20A_12-14, LSB20A_15-17, LSB24A_16-18, and LSB27A_17-19 are qualified as UJ because of potential low bias.

Pesticides by SW-846 Method 8081B

L2320936

The sample LSB20A_12-14 exhibited a percent recovery above the UCL for the surrogate decachlorobiphenyl (PCB 209) (1C) (154%). The associated results are qualified as J because of potential high bias.

The sample LSB16A_19.5-21.5 exhibited a percent recovery above the UCL for the surrogate decachlorobiphenyl (PCB 209) 2C (157%). The associated results are qualified as J because of potential high bias.

The sample LSB20A_15-17 exhibited a RPD above the control limit between the primary and secondary GC columns for gamma chlordane (trans). The associated results are qualified as J because of potential indeterminate bias.

Technical Memorandum

The sample DUP01_04192023 exhibited a RPD above the control limit between the primary and secondary GC columns for 4,4'-DDE. The associated results are qualified as J because of potential indeterminate bias.

The sample LSB20A_12-14 exhibited a RPD above the control limit between the primary and secondary GC columns for alpha chlordane. The associated results are qualified as J because of potential indeterminate bias.

The sample LSB16A_19.5-21.5 exhibited a RPD above the control limit between the primary and secondary GC columns for 4,4'-DDD. The associated results are qualified as J because of potential indeterminate bias.

Metals by SW-846 Methods 6010D/7471B

L2320936

The FB (FB-01_04192023) exhibited detections of sodium (0.162 mg/l), chromium (0.0006 mg/l), and calcium (0.0473 mg/l). The associated detected sodium results in samples LSB15A_16.5-18.5, LSB17A_14-16, LSB20A_15-17, DUP01_04192023, LSB20A_12-14, LSB18A_16.5-18.5, LSB19A_18-20, LSB24A_16-18, LSB27A_17-19, and LSB16A_19.5-21.5 are qualified as U at the reporting limit because of potential blank contamination. Associated sample results for chromium and calcium are >10x the blank concentration and do not require qualification.

The MB for batch WG1769133 exhibited detections of potassium (12.9 mg/kg), sodium (7.7 mg/kg), and arsenic (0.099 mg/kg). The associated detected potassium and sodium results in samples DUP01_04192023, LSB15A_16.5-18.5, LSB16A_19.5-21.5, LSB17A_14-16, LSB18A_16.5-18.5, LSB19A_18-20, LSB20A_12-14, LSB20A_15-17, LSB24A_16-18, and LSB27A_17-19 are qualified as U at the reporting limit because of potential blank contamination. Associated arsenic results are >10x the blank concentration and do not require qualification.

The MS/MSD performed on sample LSB16A_19.5-21.5 exhibited a percent recovery below the LCL for nickel (63%, 66%). The associated results in sample LSB16A_19.5-21.5 are qualified as J because of potential low bias.

The MS performed on sample LSB16A_19.5-21.5 exhibited percent recoveries below the LCL for chromium (69%) and manganese (71%). The associated results in sample LSB16A_19.5-21.5 are qualified as J because of potential low bias.

The MSD performed on sample LSB16A_19.5-21.5 exhibited a percent recovery above the UCL for zinc (128%). The associated results in sample LSB16A_19.5-21.5 are qualified as J because of potential high bias.

Technical Memorandum

Data Usability Summary Report
For 12096 Flatlands Avenue
April 2023 Soil Samples
Langan Project No.: 100688802
May 12, 2023 Page 5 of 8

Cyanide by SW-846 Method 9012B

L2320936

The MSD performed on sample LSB20A_15-17 exhibited a percent recovery below the LCL for cyanide (0%). The associated results in sample LSB20A_15-17 are qualified as J because of potential low bias.

Hexavalent Chromium by SW-846 Method 7196A

L2320936

The MS/MSD performed on sample LSB16A_19.5-21.5 exhibited a percent recovery below the LCL for hexavalent chromium (53%, 61%). The associated results in sample LSB16A_19.5-21.5 are qualified as UJ because of potential low bias.

OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. The section below describes the other deficiencies that were identified.

VOCs by SW-846 Method 8260C

L2320936

The MB for batch WG1770794 exhibited a detection of tetrachloroethene (0.24 ug/kg). The associated results are non-detect. No qualification is necessary.

The MS/MSD performed on sample LSB16A_19.5-21.5 exhibited a percent recovery below the LCL for several analytes (0 - 55%). Organic results are not qualified on the basis of MS/MSD recoveries alone. No qualification is necessary.

SVOCs by SW-846 Method 8270D

L2320936

The FB (FB-01_04192023) exhibited a detection of benzoic acid (7.3 ug/l). The associated results are non-detect. No qualification is necessary.

The LCS for batch WG1769789 exhibited a percent recovery above the UCL for phenol (92%). The associated results are non-detect. No qualification is necessary.

The MS/MSD performed on sample LSB16A_19.5-21.5 exhibited a percent recovery below the LCL for several analytes (0% - 39%). Organic results are not qualified on the basis of MS/MSD recoveries alone. No qualification is necessary.

Technical Memorandum

PFAS by USEPA Method 1633

L2320936

The LCS for batch WG1773185 (LOW) exhibited a percent recovery above the UCL for nonafluoro-3,6-dioxaheptanoic acid (160%). The associated results are non-detect. No qualification is necessary.

The LCS for batch WG1773185 (HIGH) exhibited a percent recovery above the UCL for nonafluoro-3,6-dioxaheptanoic acid (159%). The associated results are non-detect. No qualification is necessary.

Pesticides by SW-846 Method 8081B

L2320936

The sample LSB18A_16.5-18.5 exhibited percent recoveries below the LCL for the surrogates tetrachloro-m-xylene (1C) (6%) and decachlorobiphenyl (PCB 209) (1C) (6%). No associated results are reported from the corresponding column. No qualification is necessary.

The sample LSB19A_18-20 exhibited percent recoveries below the LCL for the surrogates tetrachloro-m-xylene (1C) (2%) and decachlorobiphenyl (PCB 209) (1C) (2%). No associated results are reported from the corresponding column. No qualification is necessary.

The sample LSB16A_19.5-21.5 exhibited percent recoveries below the LCL for the surrogates tetrachloro-m-xylene (1C) (20%) and decachlorobiphenyl (PCB 209) (1C) (25%). No associated results are reported from the corresponding column. No qualification is necessary.

The sample LSB17A_14-16 exhibited a percent recovery above the LCL for the internal standard 1-bromo-2-nitrobenzene (1C) (205%). No associated results are reported from the corresponding column. No qualification is necessary.

The sample DUP01_04192023 exhibited a percent recovery above the LCL for the internal standard 1-bromo-2-nitrobenzene (1C) (221%). No associated results are reported from the corresponding column. No qualification is necessary.

The sample LSB18A_16.5-18.5 exhibited a percent recovery above the LCL for the internal standard 1-bromo-2-nitrobenzene (1C) (893%). No associated results are reported from the corresponding column. No qualification is necessary.

The sample LSB19A_18-20 exhibited a percent recovery above the LCL for the internal standard 1-bromo-2-nitrobenzene (1C) (2926%). No associated results are reported from the corresponding column. No qualification is necessary.

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The sample LSB16A_19.5-21.5 exhibited a percent recovery above the LCL for the internal standard 1-bromo-2-nitrobenzene (1C) (474%). No associated results are reported from the corresponding column. No qualification is necessary.

Metals by SW-846 Methods 6010D/7471B

L2320936

The MS/MSD performed on sample LSB16A_19.5-21.5 exhibited percent recoveries outside of control limits for aluminum (22%, 306%), calcium (555%), iron (0%), and magnesium (203%). The associated results in the parent sample are >4X the spiked amount. No qualification is necessary.

The MS/MSD performed on sample LSB16A_19.5-21.5 exhibited RPDs above the control limit for calcium (37%) and magnesium (48%). The associated results in the parent sample are >4X the spiked amount. No qualification is necessary.

FIELD DUPLICATE:

One field duplicate and parent sample pair was collected and analyzed for all parameters. For results less than 5X the RL, analytes meet the precision criteria if the absolute difference is less than $\pm 2X$ the RL. For results greater than 5X the RL, analytes meet the precision criteria if the RPD is less than or equal to 50% for soil. The following field duplicate and parent sample pair was compared to the precision criteria:

- SBDUP01_041519 and SB06_0-2

The field duplicate and parent sample (DUP01_0419/2023 and LSB20A_15-17) exhibited RPDs above the control limit for cadmium (64.1%), copper (83.9%), iron (56.3%), lead (77.1%), magnesium (88.1%), and zinc (72.2%). The associated results are qualified as J because of potential indeterminate bias.

The field duplicate and parent sample (DUP01_0419/2023 and LSB20A_15-17) exhibited absolute differences above the RL for benzo(a)anthracene (260 ug/kg), chrysene (270 ug/kg), fluoranthene (740 ug/kg), phenanthrene (870 ug/kg), and pyrene (710 ug/kg). The associated results are qualified as J or UJ because of potential indeterminate bias.

CONCLUSION:

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above,

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that means that all specified criteria were met for that parameter. All of the data packages met ASP Category B requirements.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

Signed:



Joe Conboy
Senior Staff Chemist

**Data Usability Summary Report
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Table 1: Sample Summary**

SDG	Lab Sample ID	Client Sample ID	Sample Date	Validation Level	Analytical Parameters
L2320936	L2320936-01	LSB15A_16.5-18.5	4/19/2023	Tier 1	VOCs, SVOCs, PFAS, Pesticides, Herbicides, PCBs, Metals, Hexavalent Chromium, Trivalent Chromium, Cyanide
L2320936	L2320936-02	LSB17A_14-16	4/19/2023	Tier 1	VOCs, SVOCs, PFAS, Pesticides, Herbicides, PCBs, Metals, Hexavalent Chromium, Trivalent Chromium, Cyanide
L2320936	L2320936-04	LSB20A_15-17	4/19/2023	Tier 1	VOCs, SVOCs, PFAS, Pesticides, Herbicides, PCBs, Metals, Hexavalent Chromium, Trivalent Chromium, Cyanide
L2320936	L2320936-05	DUP01_04192023	4/19/2023	Tier 1	VOCs, SVOCs, PFAS, Pesticides, Herbicides, PCBs, Metals, Hexavalent Chromium, Trivalent Chromium, Cyanide
L2320936	L2320936-06	LSB20A_12-14	4/19/2023	Tier 1	VOCs, SVOCs, PFAS, Pesticides, Herbicides, PCBs, Metals, Hexavalent Chromium, Trivalent Chromium, Cyanide
L2320936	L2320936-07	LSB18A_16.5-18.5	4/19/2023	Tier 1	VOCs, SVOCs, PFAS, Pesticides, Herbicides, PCBs, Metals, Hexavalent Chromium, Trivalent Chromium, Cyanide
L2320936	L2320936-08	LSB19A_18-20	4/19/2023	Tier 1	VOCs, SVOCs, PFAS, Pesticides, Herbicides, PCBs, Metals, Hexavalent Chromium, Trivalent Chromium, Cyanide
L2320936	L2320936-09	LSB24A_16-18	4/19/2023	Tier 1	VOCs, SVOCs, PFAS, Pesticides, Herbicides, PCBs, Metals, Hexavalent Chromium, Trivalent Chromium, Cyanide

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Table 1: Sample Summary**

SDG	Lab Sample ID	Client Sample ID	Sample Date	Validation Level	Analytical Parameters
L2320936	L2320936-10	LSB27A_17-19	4/19/2023	Tier 1	VOCs, SVOCs, PFAS, Pesticides, Herbicides, PCBs, Metals, Hexavalent Chromium, Trivalent Chromium, Cyanide
L2320936	L2320936-11	LSB16A_19.5-21.5	4/19/2023	Tier 1	VOCs, SVOCs, PFAS, Pesticides, Herbicides, PCBs, Metals, Hexavalent Chromium, Trivalent Chromium, Cyanide
L2320936	L2320936-12	FB-01_04192023	4/19/2023	Tier 1	VOCs, SVOCs, PFAS, Pesticides, Herbicides, PCBs, Metals, Hexavalent Chromium, Trivalent Chromium, Cyanide
L2320936	L2320936-13	EB-01_04192023	4/19/2023	Tier 1	PFAS
L2320936	L2320936-14	TB-01_04192023	4/19/2023	Tier 1	VOCs